Appendix N

2020 Annual Report

Groundwater Conditions

in the Vicinity of the

Woodland Plant Site

Teichert Aggregates, Yolo County, CA

October 30, 2020

Prepared for

Teichert Aggregates, Sacramento, CA

Prepared by

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Consulting Engineers

2020 Annual Report

On

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Luhdorff and Scalmanini, Consulting Engineers, Woodland, CA

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1 INTRODUCTION

This annual report evaluates the cumulative groundwater level and quality record aggregated since 1986 for Teichert Aggregate's Woodland plant. This includes the pre-mining and post-reclamation

1.1 Previous Investigations

In 1986, as part of its planning associated with aggregate production, management, and reclamation, Teichert Aggregates retained Luhdorff and Scalmanini, Consulting Engineers (LSCE) to investigate shallow groundwater elevations in the alluvial aggregate materials beneath and immediately adjacent to Cache Creek in the vicinity of Teichert's Woodland plant (**Figure 1**). The monitored reach of the creek for that investigation, which has continued to the present, extends from approximately 1.25 miles upstream of the Stevens Bridge at Road 94B to approximately 2 miles downstream of that bridge (about one-quarter mile east of Road 96). The area of the investigation included four properties originally planned by Teichert for off-channel mining (Coors, Storz, Haller and Muller) and one property subsequently planned for mining (Schwarzgruber), all generally located adjacent to Cache Creek and extending up to one-half mile north and south of the creek (**Figure 2**).

A groundwater monitoring network was established at that time consisting of several shallow dedicated monitoring wells for each property and the Woodland plant area. This network was expanded the following year to include additional shallow monitoring wells and existing deeper water supply wells located throughout the study area. Earlier studies by Wahler Associates (1982) and Helley and Barker (1979) had identified a shallow unconfined aquifer beneath the area composed of highly permeable alluvial material, which is underlain by a confined aquifer in the Tehama Formation. The upper alluvial aquifer varies in thickness due to upwarped sections of the Tehama Formation that comprise the Dunnigan Hills and Plainfield Ridge. The water level data collected from the monitoring network informed comparisons between the shallow unconfined aquifer and the deeper main aquifer system. Since the shallow aquifer is generally in direct hydraulic continuity with Cache Creek, whereas the deep aquifer system is primarily developed by surrounding agriculture and nearby municipal water supply, three objectives were formulated to be addressed by the monitoring program:

1. Provide local data to assess the impacts of historical aggregate mining that had occurred in the creek channel.
2. Provide ongoing local data to support planning for off-channel mining and reclamation.
3. Provide specific groundwater data from both the shallow alluvial aquifer and the deeper Tehama Formation as a basis for differentiating between the potential effects of aggregate mining and other potential effects on groundwater conditions.

Beginning in June 1986, water levels were measured in the network of monitoring and water supply wells on a monthly basis. These data were comprehensively evaluated in LSCE (1995) as part of Teichert's long-term mining application for the Coors, Muller, and Storz properties. That report highlighted four areas of interest: the variations in shallow and deep groundwater levels versus time; the differences between shallow and deep groundwater levels; groundwater elevations and the associated direction of groundwater flow beneath and adjacent to Cache Creek; and the relationship between shallow groundwater levels, the adjacent theoretical thalweg of Cache Creek, and aggregate materials relative to potential off-channel aggregate mining and reclamation. Also discussed in that report were the potential impacts of the planned mining on surrounding groundwater levels and nearby wells, and the historical and recent groundwater quality conditions within the study area.

The main findings of the LSCE (1995) report were:

1. In the area of the Coors property, water levels in the shallow aquifer during the monitoring period (approximately nine years at that time) remained a few to several feet above the adjacent theoretical thalweg elevations of Cache Creek. In contrast, in the area of the Storz, Muller and the northeast portion of the Haller properties, water levels in the shallow aquifer generally remained well below theoretical thalweg elevations.
2. Groundwater elevations in the study area are influenced by the Plainfield Ridge in the vicinity of Road 94B. The Plainfield Ridge affects groundwater levels in a manner similar to a dam, with resultant groundwater levels west of the ridge (Coors property and the southern portion of the Haller property) generally higher in elevation and more stable than levels immediately to the east.
3. Short periods of localized increases and decreases in shallow groundwater levels occurred at some locations. Those appeared to have been related to streamflow conditions, irrigation, or settling pond operations.
4. Deep groundwater levels vary significantly in response to seasonal pumping and are not directly indicative of groundwater conditions as affected by Cache Creek streamflow or other surface activities. Deep groundwater levels remain continuously separate from, and deeper than, groundwater levels in the shallow aquifer.
5. In general, ambient groundwater quality conditions in the study area are consistent with those reported in the literature for the vicinity of Cache Creek, and there are no constituents that would limit the beneficial use of groundwater. One possible exception to this was in the area immediately upgradient of the Coors property, where nitrate concentrations in groundwater exceed the drinking water standard of 45 mg/L (as NO_3) one time.

6. The results of numerical groundwater flow model and particle-tracking simulations (the latter to analyze capture zones around two nearby domestic wells) indicated that the planned setback distances between the wells and the planned wet pits were sufficient for water quality protection.

1.2 Regulatory Monitoring Requirements

In 1996, the long-term off-channel Mining Permit and Reclamation Plan No. ZF95-095 (Original Permit) for the Muller, Coors, and Storz properties was issued by the Yolo County Community Development Agency (Yolo County). The Original Permit conditions specific to these three properties and relating to groundwater and mining pit (wet pit) water monitoring activities are as follows:

1. Water quality analyses are the same for groundwater and wet-pit samples; they include general minerals and inorganics (per Title 22 requirements); total petroleum hydrocarbons as diesel and motor oil (TPH-diesel/motor oil); the aromatic hydrocarbons benzene, toluene, ethyl benzene, and xylenes (BTEX); organophosphorus pesticides and organochlorine herbicides; and total coliform with E. coli confirmation.
2. Quarterly groundwater level monitoring and semi-annual groundwater quality monitoring to commence six months prior to removal of overburden.
3. Groundwater level monitoring to be continued quarterly during mining and active reclamation.
4. Groundwater quality monitoring to occur semi-annually for the first two years of mining, and annually thereafter.
5. Wet-pit water quality sampling to occur semi-annually during mining and active reclamation.
6. After active reclamation (one year after all heavy equipment work has been completed in the vicinity of the pit), groundwater and wet-pit sampling to be conducted every two years for a period of 10 years. Inorganics, TPH, BTEX, and pesticide/herbicide analyses may be discontinued at this time. Groundwater and wet-pit samples to be analyzed for pH, temperature, nutrients (phosphorus and nitrogen), total dissolved solids (TDS), total coliform (with E. coli confirmation), and biological oxygen demand (BOD).
7. Reporting to occur annually.

This annual report presents the historical data record and a discussion of groundwater conditions prior to, during, and following wet-pit mining in the vicinity of the Woodland plant.

1.3 Aggregate Mining History and Data Record

1.3.1 Muller Property

Semi-annual groundwater quality monitoring per the Yolo County requirements was initiated at the Muller property in July 1997 in response to Teichert Aggregates' expressed desire to commence mining of the property in early 1998. Mining operations on the property were concluded and the Muller Pond largely backfilled by September 2007; reclamation of the property to below-grade agricultural land and wetland was completed and a biennial sampling frequency implemented in spring of 2010. In accordance with the permit conditions for a fully reclaimed property, well and pond sampling were conducted in spring 2012; however, in 2014, the scheduled sampling could not be completed because the wetland was dry and the wells were either dry or with water levels too low to allow sample collection due to drought conditions. The continued dryness associated with the 2012-2016 drought precluded sample collection during a follow-up attempt in 2015. Sampling resumed in 2016. In 2020, the last samples were retrieved and monitoring activities associated with this property were concluded.

1.3.2 Coors Property

Semi-annual groundwater quality monitoring was initiated at the Coors property in September 2005 in response to Teichert Aggregates' expressed desire to commence mining of the property in Summer 2006. The removal of overburden commenced in summer 2006 and the first Coors Pond water quality samples were collected in September 2007. In accordance with mining permit conditions, groundwater quality sampling changed to an annual schedule beginning in spring of 2010. Mining was completed in November 2009 and the Coors Pond largely backfilled by late 2012. Reclamation of the property to below-grade agricultural land (and small agricultural drainage pond) was essentially completed in 2013; filling of the Coors Pond was completed by late 2014. Accordingly, the biennial well sampling schedule was implemented starting in spring 2015. The final samples will be retrieved in 2023.

1.3.3 Storz Property

Semi-annual groundwater quality monitoring was initiated at the Storz property in September 2009. The removal of overburden commenced in October 2009 and the first Storz Pond water quality samples were collected in April 2011. Well and pond sampling were conducted in spring and fall of 2012 and 2013. In 2014, groundwater quality sampling changed to an annual schedule and pond sampling remained on a semi-annual basis. Reclamation of the property began in 2017 and currently continues. Therefore, the annual well sampling and semi-annual pond sampling schedule continues.

1.3.4 Schwarzgruber Property

In November 2012, Mining Permit and Reclamation Plan No. ZF2011-0035 for the Schwarzgruber property (Schwarzgruber Permit) was issued by Yolo County, with permit conditions relating to groundwater and wet pit water monitoring activities similar to those specified in the Original Permit. Accordingly, semi-annual groundwater quality monitoring was initiated at the Schwarzgruber property in September 2012 although the removal of overburden did not commence until 2018. In 2014, the scheduled sampling could not be completed because the wells had dried up in the wake of the 2012-2016 drought.

2 GROUNDWATER MONITORING WELL NETWORK

According to the Original Permit, the long-term groundwater monitoring network was to consist of a minimum of four monitoring wells around the Muller property and a minimum of three monitoring wells around each of the Coors and Storz properties for the measurement of water levels. Of these wells, a minimum of two wells around each property, one upgradient and one downgradient, were to be used for water quality testing. As part of the ongoing investigation conducted by LSCE since 1986, groundwater level measurements have consistently indicated that the groundwater flow direction in the shallow alluvial aquifer beneath the area is generally to the southeast.

Based on the findings of the early investigations and monitoring results from the long-term groundwater monitoring, a regulatory well network was established as a subset of the existing more extensive well network. In accordance with the Original and Schwarzgruber Permits, this network now consists of twelve shallow monitoring facilities, one of which (TA-13A) serves a dual purpose (i.e. downgradient well for Muller property and upgradient well for Schwarzgruber property) (**Figure 2**). Teichert continues to collect property-specific water level information from more shallow and deep wells than required by the Permit to avoid occasional data gaps due to dry wells or insufficient well yield:

Long Term Monitoring Network			Additional Groundwater Levels
Property	Groundwater Levels	Groundwater Levels & Quality	
Muller	TA-11, 13	TA-14, TA-13A	TA-12, 16, 24
Coors	TA-3A	TA-5A (i), TA-1A	TA-4, 5, 6, 22, 23
Storz	Yolo Fliers West well	TA-25 (ii), Stephens well (iii)	TA-8
Schwarzgruber	TA-13A	TA-18, Schwarzgruber well	Rodgers Dom New (S), Rodgers Dom (N), TA-13

(i) The retrieval of water quality samples from TA-3A was discontinued in 2008 due to its low yield. TA-5A is used in its place for long-term water level and quality monitoring.
(ii) TA-8 has frequently been dry in the past. TA-25 was constructed in September 2009 as a replacement for TA-8 and is used for long-term water level and quality monitoring.
(iii) TA-9R has an obstruction at a depth of ~48 feet precluding water level measurements below that depth. The Stephens well is used in its place for long-term water level and quality monitoring.

2.1 Groundwater Monitoring Activities in 2020

Depth-to-water readings were retrieved quarterly from all long-term monitoring wells. Groundwater samples were retrieved according to the individual properties' schedules with the exception of TA-14, which was inaccessible due to a damaged wellhead (i.e., a bent well casing).

3 MONITORING RESULTS

Depth-to-water measurements and calculated groundwater level elevations are shown in **Tables 1** and **2**, respectively. Groundwater level hydrographs for selected shallow wells are presented in this section to illustrate groundwater level conditions at the properties (**Figures 3** through **6**); a summary of well characteristics (**Table A1**) and the hydrographs for all network wells are provided in the **Appendix**. Groundwater elevation contour maps for selected periods are also presented in this section to further illustrate past and current groundwater conditions (**Figures 7** through **10**). In addition, maps of the broader area encompassing the Teichert plant and properties, with hydrographs of historical groundwater levels, illustrate different characteristics of shallow and deep groundwater levels (**Figures 11** and **12**, respectively). Related to the historical groundwater levels are the historical precipitation and stream discharge in Cache Creek, shown in two separate graphs (**Figures 13** and **14**, respectively).

The groundwater and pond water quality record is shown in **Tables 3** and **4,** for general mineral and metals/organics, respectively. Water quality graphs of selected constituent concentrations, in selected shallow wells and in the ponds, are presented in this section to illustrate water quality conditions in the area (**Figures 15** through **18**).

3.1 Groundwater Levels in the Shallow Aquifer

3.1.1 Muller Property

Spring groundwater level elevations in TA-13A fluctuated from approximately 45 to 75 feet (NAVD88) whereas seasonally low summer groundwater levels ranged from approximately 40 to 55 feet (NAVD88) (**Figure 3**).[1] Spring water levels were more variable than summer water levels. High and low groundwater level elevations correlate to wet and dry hydrologic conditions (as indicated by the *Sacramento Valley Water Year Hydrologic Classification Index*[2]) such as the dry period from 1987 to 1992 (a 6-year period including 2 Dry and 4 Critically Dry years) and the wet period from 1995 to 2000 (a 6-year period including 1 Above Normal and 5 Wet years). The period from 2001 to 2019 was predominantly dry with 4 interspersed Wet hydrologic years (2006, 2011, 2017, and 2019). These wet conditions mainly manifested by high spring groundwater level elevations. Seasonal groundwater level amplitudes ranged from 5 to 30 feet. Small seasonal fluctuations are correlated to dry hydrologic conditions and larger seasonal fluctuations are associated with wet hydrologic conditions.

[1] During fall 1999, 2000, and 2002, well TA-13A was essentially dry partly because fine sediment had accumulated in the well structure over several years so that it was functionally "shallower" than originally constructed. During March 2003, the well was cleaned by airlifting and approximately nine feet of sediment were removed from the well.

[2] California Department of Water Resources Data Exchange Center

In upgradient well TA-14, which is farther removed from Cache Creek than TA-13A, groundwater level elevations were much less variable than in TA-13A. Seasonal amplitudes were typically less than 10 feet. Overall, water level elevations were generally between 80 and 70 feet (NAVD88). Seasonally high groundwater levels in this well did not always occur in the spring but also later in the summer. This is likely attributable to seasonal leakage of water from the adjacent East Adams Canal. When flowing, the Canal appears to create a localized groundwater mound during the irrigation season, generally during late spring through summer. In contrast, during late fall to early winter when flows in the Canal cease, well TA-14 is frequently dry.

3.1.2 Coors Property

Groundwater levels beneath the Coors property exhibit seasonal fluctuations of approximately five feet or less throughout the monitoring period (**Figure 4**). The relatively small seasonal fluctuations, as well as steady long-term groundwater levels is attributed to the presence of the subsurface geologic structure of the Dunnigan Hills and Plainfield Ridge. As a result, higher and more stable groundwater levels are maintained beneath this property compared to the other Teichert properties. TA-1A exhibited elevated water levels during the summers of the mid-1990's, and these were determined to be due to a localized groundwater mound caused by leakage from a pond used for temporary water storage.

3.1.3 Storz Property

While groundwater levels beneath the Storz property were less variable than beneath the Muller property at TA-13A, their overall characteristics are very similar to those observed in TA-13A. For example, spring groundwater level elevations in the Stephens Well ranged from approximately 55 to 75 feet (NAVD88) and seasonally low summer groundwater levels ranged from approximately 50 to 65 feet (NAVD88) (**Figure 5**). Seasonal groundwater level amplitudes ranged from less than 5 to almost 20 feet. The seasonal amplitudes and long-term trends exhibited by the Stevens Well, the Yolo Fliers Club Well, and TA-25, correlate to periods of predominantly wet and dry hydrologic years.

3.1.4 Schwarzgruber Property

The overall characteristics of groundwater levels exhibited by the wells on the Schwarzgruber property are very similar to those observed in the other wells east of the Plainfield Ridge. For example, spring groundwater level elevations in the Schwarzgruber Well ranged from approximately 40 to slightly over 70 feet (NAVD88) and seasonally low summer groundwater levels ranged from approximately 30 to 45 feet (NAVD88) (**Figure 6**). Seasonal groundwater level amplitudes ranged from approximately 5 to 30 feet. The seasonal amplitudes and long-

term trends exhibited by the Schwarzgruber Well and TA-18 correlate to periods of predominantly wet and dry hydrologic years.

3.1.5 Groundwater Flow Directions

Groundwater flow directions beneath the site have been relatively invariable over the period of record including times of lowest and highest groundwater level elevations. The general direction of flow is from the west and northwest to the east and southeast (i.e., perpendicular to the contours of equal groundwater elevation). The 1987-1992 drought had little effect on water levels under the Coors property (**Figure 7**). This increased the water level elevation differences between the Coors property and the area east of the Plainfield Ridge, where water levels were experiencing historical lows. This is illustrated by the narrowly spaced contours. Contours that cross Cache Creek in the vicinity of the Coors property were nearly at the same elevation as the theoretical thalweg elevations. This suggests that the creek and underlying shallow groundwater were near equilibrium. In a downstream direction toward the Muller and Schwarzgruber properties, groundwater level elevations were increasingly deeper than the theoretical thalweg elevations. This suggests a condition of the creek recharging the shallow aquifer (i.e., a losing reach) and indicates the general vicinity of the Plainfield Ridge as a location of transition.

At the time of highest observed groundwater levels in spring 1998, groundwater levels beneath the Coors property were not much different than in summer 1992, however, water levels beneath the Storz property and farther east were up to about 40 feet higher in elevation than in summer 1992 (**Figure 8**). As a result, water level elevation differences between the Coors property and the area east of the Plainfield Ridge were greatly reduced, and this is illustrated by the more widely spaced contours. Contours crossing Cache Creek in spring 1998 in the area of the Coors and Storz properties were higher than the theoretical thalweg elevations. This suggests that the shallow aquifer was recharging the creek in this area (i.e., a gaining reach). The reach of the creek in the vicinities of the Muller and Schwarzgruber properties appears to have been nearer to equilibrium conditions or slightly gaining.

The contours for March 2020 (**Figure 9**) and September 2020 (**Figure 10**) illustrate conditions between these two extremes.

3.2 Comparison of Shallow and Deep Aquifer Groundwater Levels

Groundwater levels in the shallow aquifer (**Figure 11**) are generally higher and exhibit less seasonal variability than those in the deep aquifer (**Figure 12**). These characteristics are consistent with recharge to the shallow water bearing zone from incident precipitation and

Cache Creek, generally increasing aquifer confinement with depth, and greater demand on groundwater resources from the deep aquifer which is tapped by agricultural wells.

Both shallow and deep groundwater levels exhibit long-term trends consistent with the relative abundance of precipitation and discharge from Cache Creek (**Figure 13**). Specifically, a downward trending cumulative precipitation departure from the annual mean precipitation indicates generally dry conditions (i.e., below the mean annual precipitation) whereas an upward trend indicates generally wet conditions (i.e., above the mean annual precipitation). Groundwater level responses to these hydrologic conditions are much more pronounced in the deep wells. This, too, is consistent with increasing aquifer confinement with depth and agriculture's increased reliance on groundwater during years of curtailed surface water deliveries, which can be inferred from surface water discharge records from Cache Creek (**Figure 14**). Similar to the cumulative precipitation departure from the annual mean precipitation, a downward trending cumulative departure from the annual mean stream discharge illustrates predominantly below-mean discharge since 2000.

3.3 Groundwater and Pond Water Quality

The water quality testing results are compiled in **Tables 3** and **4**, and field notes and analytical laboratory sheets are provided in the **Appendix**. Times series graphs of total dissolved solids (TDS) and nitrate (as NO_3) concentrations are provided on **Figures 15** through **18**.

3.3.1 Muller Property

The shallow groundwater is of magnesium-bicarbonate type, with either calcium or sodium as the second most abundant cation, and pH has ranged between 7.13 and 8.0 in value over the monitoring period. Total dissolved solids (TDS) concentrations, a measure of salinity, have ranged between 220 and 450 mg/L in downgradient well TA-13A and from 230 to 481 mg/L in upgradient well TA-14 (**Figure 15**). Total hardness (as CaCO3) concentrations have ranged between 150 and 320 mg/L in well TA-13A and from 140 to 260 mg/L in well TA-14, indicating general mineral concentrations are slightly lower in the upgradient portion of the property.

Muller Pond water has typically also been of magnesium-bicarbonate quality, with either sodium or calcium being the second most abundant cation. The pond water quality is very similar to that of shallow groundwater but with greater pH values (ranging from 7.77 to 9.6), which are attributed to natural processes associated with the exposure of bicarbonate-rich groundwater to the atmosphere at ponds and other surface water bodies. TDS concentrations have ranged between 260 and 640 mg/L (**Figure 16**) and Total hardness (as CaCO3) concentrations have ranged between 190 and 470 mg/L.

The historical record of metal analyses for upgradient well TA-14 documents the consistent presence of aluminum, barium, iron, and manganese concentrations. Although detected less frequently, arsenic, chromium, copper, lead, and zinc have also been part of the upgradient groundwater chemistry. Similar to upgradient groundwater quality, aluminum, barium, iron, and manganese were also typical of water quality in Muller Pond. In contrast, the historical record of metal analyses for downgradient well TA-13A exhibited mostly non-detect metal concentrations.

Nitrate (as nitrate) concentrations in groundwater have ranged between <1.8 and 16 mg/L in well TA-13A and from <2.0 to 7 mg/L in well TA-14 (**Figure 17**); concentrations in the Muller pond were similar, ranging between <1.8 and 16 mg/L (**Figure 18**). Organic chemical analyses of groundwater and pond water, including total petroleum hydrocarbons (TPH) as diesel and motor oil, benzene, toluene, ethyl benzene, and xylenes (BTEX), organophosphorus pesticides, and organochlorine herbicides, were consistently non-detect for the Muller property. The sole exception to this is the detection in September 2007 of the pesticide fensulfothion at 0.28 µg/L in upgradient well TA-14. Subsequent analysis for these compounds in 2010 showed non-detect results.

In spring 2020, samples from the Muller pond and well TA-13A were analyzed for general mineral constituents, biological oxygen demand (BOD), phosphorus, and coliform bacteria in accordance with the monitoring requirements for properties where active reclamation has been completed. General mineral concentrations and pH were well within observed ranges for the pond and well TA-13A (see **Figures 15** and **16**). BOD and total phosphorus-P were below their respective reporting limits (3.0 and 0.050 mg/L, respectively).

Coliform bacteria (including E. coli and other fecal species) are frequently observed in pond water samples, as would be expected in any similar surface water body freely accessed by coyote, deer and other mammalian wildlife. Coliform bacteria have also been detected in samples retrieved from the monitoring wells, including E. coli and other fecal species. The presence of coliform bacteria is considered to be indicative of conditions in the well structure and/or the immediate aerated area around the well screen and not within the aquifer. Variability of detections has been linked to the detachment of biofilms from the well casing (Kranowski et al., 1990). While a variety of coliform bacteria exist naturally in soils and sediments sediment (Mansuy, 1999; Smith, 1995, Bouwer; 1978), fecal species may have been introduced to the well structure during sampling activities, or their detections are linked to sample contamination during sampling, sample handling, or depth-to-water measurements. Their detections occur in both upgradient and downgradient wells and they are not attributable to mining activities.

3.3.2 Coors Property

The shallow groundwater is of magnesium-bicarbonate type, with calcium as the second most abundant cation, and pH has ranged between 6.96 and 7.7 in value over the monitoring period. Shallow groundwater beneath the Coors property contains more dissolved minerals than the Muller property. For example, total dissolved solids (TDS) concentrations have ranged between 420 and 870 mg/L in downgradient well TA-1A and from 630 to 760 mg/L in upgradient well TA-5A (**Figure 15**). Total hardness (as CaCO3) concentrations have ranged between 310 and 610 mg/L in well TA-1A and from 480 to 620 mg/L in well TA-5A, indicating general mineral concentrations are fairly consistent across the Coors property but with greater variation over time in the downgradient portion of the property. The 2019 cation and hardness values in well TA-1A are questionable, but the general minerals values for well TA-5A were generally within their respective ranges of observed values.

The former Coors Pond water quality has been similar to the shallow groundwater but with greater pH values, specifically ranging from 8.28 to 9.03, due to the natural processes described for Muller Pond above. As is the case with groundwater, the pond water is of a magnesium-bicarbonate quality, with similar general mineral concentrations. Through 2014, the last year before the Coors Pond was backfilled, the pond TDS concentrations ranged from 280 to 910 mg/L (**Figure 16**) and total hardness values range from 240 to 600 mg/L.

The existing record of metal analyses for upgradient well TA-5A documents the presence of very low levels of aluminum, barium, chromium, copper, iron, manganese, and zinc. Most of these constituents plus selenium have also been reported for the downgradient well TA-1A. Low concentrations of aluminum, arsenic, barium, iron, and manganese have been reported for the pond water. Regarding nitrate (as nitrate) concentrations in groundwater, while a sample collected from TA-5A in 1995 had an elevated level of 63 mg/L, concentrations have subsequently been much lower, ranging between 15 and 39 mg/L (**Figure 17**) through 2019. In well TA-1A, concentrations have ranged between <2.0 and 27 mg/L through 2019, while those in the Coors pond have been much lower, between <2.0 and 3.4 mg/L (through 2014) (**Figure 18**). The 2019 groundwater sampling results for nitrate were very similar to those previously observed.

The results of TPH diesel and motor oil analyses of well and pond samples were consistently non-detect, with the exception of TA-1A (September 2005) and Coors Pond (September 2011, March and September 2012, and October 2014). Importantly, in each case, the results were qualified by the laboratory as not exhibiting the typical chromatographic patterns for diesel or motor oil. The detections prior to 2014 may in fact be of naturally-occurring organic compounds of similar molecular weights that develop over extended periods of time in stagnant water environments (personal communications, October 3, 2011, and September 28, 2012, J. Liang,

CLS Laboratories). Equally important, in each of those cases, follow-up sampling and analyses with a silica-gel treatment indicated non-detect results. In spring and fall 2013, as well as in spring 2014, the results of sampling for TPH diesel and motor oil in the Coors wells and pond were non-detect. The fall 2014 sampling results from the Coors Pond indicated a very low level of TPH-motor oil, which was qualified by the laboratory as being at too low a concentration to confirm with confidence; the laboratory recommended future sample analyses be modified to provide proper corresponding reporting limits and confidence levels for TPH analyses (personal communication, October 28, 2014, J. Liang, CLS Laboratories).

The results of BTEX analyses of well and pond samples have consistently been non-detect, with the exception of TA-1A and TA-5A (both in May 2012). The reported results were at or just above the reporting limit, and follow-up sampling and analyses indicated non-detect results. In 2013 and 2014, the results of sampling for BTEX in the Coors wells and pond were non-detect.

In regard to the remaining organic chemical analyses, specifically for organophosphorus pesticides and organochlorine herbicides, well and pond samples have consistently been non-detect. The exception to this is the detection in 2008 of the herbicide dichloroprop in the Coors pond (2.9 µg/L) and upgradient well TA-5A (2.1 µg/L). Subsequent annual analyses for these compounds through 2014 showed non-detect results.

For discussion of coliform bacteria, see *Section 3.3.1*.

In the 2019 samples from both wells, total phosphorus-P was below the reporting limit. BOD analyses were inadvertently omitted in the wells in 2019. In 2017, only well TA-1A reported a detectable BOD level (9 mg/L) with a non-detect in well TA-5A.

3.3.3 Storz Property

In 2020, samples were collected from wells TA-25 and “Stephens” in spring and from the Storz Pond in spring and fall.

The shallow groundwater is of magnesium-bicarbonate type, with calcium or sodium as the second most abundant cation, and pH has ranged between 7.13 and 7.78 in value over the monitoring period. Shallow groundwater beneath the Storz property also contains more dissolved minerals than the Muller property. For example, in samples from upgradient well TA-25, the TDS and total hardness values range from 430 to 660 mg/L and 320 to 500 mg/L, respectively (**Figure 15**). General mineral constituent concentrations in samples from the downgradient well, Stephens well, are somewhat higher than in upgradient well TA-25; specifically, the TDS and total hardness values range from 390 to 670 mg/L and 270 to 480 mg/L, respectively.

Storz Pond water quality is similar to the shallow groundwater but with greater pH values, specifically ranging from 7.59 to 9.28, due to the natural processes described for Muller Pond above. Similar to groundwater, the pond water is of a magnesium-bicarbonate quality, with similar general mineral concentrations. Through 2020, pond TDS concentrations range from 360 to 670 mg/L (**Figure 16**) and total hardness values range from 220 to 420 mg/L.

The existing record (including 2020) of metal analyses for upgradient well TA-25 shows that low levels of aluminum, barium, chromium, and iron are typically present, with low levels of manganese and zinc present only once. In downgradient well "Stephens" during 2020, only barium, manganese, and iron were detected. In 2020, low concentrations of barium were detected in the pond water. Regarding nitrate concentrations in groundwater, the initial sample from the Stephens well in 2009 had a concentration of 40 mg/L, and subsequently decreased to below 10 mg/L (**Figure 17**). In well TA-25, nitrate-NO3 concentrations range between 4.1 and 11 mg/L. Those in the Storz Pond have been between <2.0 and 35 mg/L (**Figure 18**). Through 2020, groundwater and pond sampling results for metals and nitrate were very similar to those previously observed with a slight overall decline.

The results of TPH diesel and motor oil analyses of well samples have consistently been non-detect, including in 2020, except for the one-time detection of TPH-diesel in wells TA-25 and "Stephens" (September 2012). The results from the Storz Pond samples have shown periodic detections of TPH-motor oil (March 2012, October 2014, March 2015, and September 2016); since September 2016, the TPH diesel and motor oil results were non-detect. TPH-motor oil has never been detected in the wells and TPH-diesel has never been detected in Storz Pond.

The TPH results prior to 2014 were qualified by the laboratory as not exhibiting the typical chromatographic patterns for petroleum hydrocarbons (personal communication, September 28, 2012, J. Liang, CLS Laboratories). Further, follow-up sampling and analyses with a silica-gel treatment indicated non-detect results. As such, it is possible that the detections actually indicate the presence of naturally-occurring organic compounds within the same range of molecular weights that develop in stagnant water environments. In spring and fall 2013, as well as in spring 2014, the results of sampling for TPH diesel and motor oil in the Storz wells and pond were non-detect.

In fall 2014, sampling results from the Storz Pond indicated a very low level of TPH-diesel, which was qualified by the laboratory as being at too low a concentration to confirm with confidence (personal communication, October 28, 2014, J. Liang, CLS Laboratories). The laboratory recommended future sample analyses be modified to provide proper corresponding reporting limits and confidence levels for TPH analyses. Subsequently, the Storz Pond samples have had periodic detections of TPH-motor oil at low levels: 12 ug/L in spring 2015 and 610 ug/L in fall 2016, but non-detect in fall 2015, spring 2016. TPH-motor oil has been non-detect since 2017.

The results of all other organic chemical analyses, including BTEX, organophosphorus pesticides, and organochlorine herbicides, were non-detect for the Storz monitoring wells and pond since sampling began at the Storz property through 2020. The single exception is the detection of a very low level of toluene in the Storz Pond in fall 2014; follow-up sampling and analysis with a silica-gel treatment indicated non-detect results.

For discussion of coliform bacteria, see *Section 3.3.1*.

3.3.4 Schwarzgruber Property

In spring 2020, samples were collected from wells TA-18 and "Schwarzgruber" well.

The shallow groundwater is of magnesium-bicarbonate type, with calcium or sodium as the second most abundant cation, and pH has ranged between 7.18 and 7.84 in value over the monitoring period. Total dissolved solids (TDS) concentrations have ranged between 300 and 420 mg/L in downgradient well "Schwarzgruber" and from 230 to 470 mg/L in upgradient well TA-18 (**Figure 15**). Total hardness (as CaCO3) concentrations have ranged between 190 and 330 mg/L in well "Schwarzgruber" and from 140 to 320 mg/L in well TA-18, indicating general mineral concentrations are slightly lower in the upgradient portion of the property.

The only metals consistently detected in well TA-18 are barium and iron at low levels; low levels of aluminum and chromium have sporadically been detected. Only barium has been consistently detected in the Schwarzgruber well, also at low levels; aluminum, chromium and iron have sporadically been detected at the reporting limit. Nitrate (as nitrate) values for TA-18 range from <2.0 to 17 mg/L and for the Schwarzgruber well range from 4.2 to 10.8 mg/L (**Figure 17**).

The results of all organic chemical analyses for the Schwarzgruber property wells have been non-detect, including in 2020. For discussion of coliform bacteria, see *Section 3.3.1*.

3.3.5 Historical Groundwater Quality

Evenson (1985) completed an investigation of the general mineral and inorganic chemistry of groundwater in Yolo County, including along the lower Cache Creek area. Groundwater was determined to be of a magnesium-sodium bicarbonate quality with high hardness (Tchobanoglous, 1985), and nitrate was present in low to highly elevated concentrations. Also present were low levels of aluminum, iron, and manganese. Overall, the reported water quality conditions are very similar to those observed at the Teichert properties. General mineral and inorganic constituent concentrations observed in the ponds and most wells at the properties are within the reported ranges and show no indication of impacts from mining activities.

4 SUMMARY AND CONCLUSIONS

Groundwater flow directions in the shallow alluvial aquifer beneath the site have been relatively invariable over the period of record including times of lowest and highest groundwater level elevations. The general direction of flow is from the west and northwest to the east and southeast (i.e., perpendicular to the contours of equal groundwater elevation). Cache Creek is a source of groundwater recharge in all but the wettest of years when groundwater maybe recharging the creek. This condition is less pronounced beneath the Coors property due to the damming effect of the Plainfield Ridge. As a result, this area of the site likely receives less recharge from the creek. Long-term groundwater level fluctuations in both the shallow and the deep aquifer are strongly correlated to the relative abundance of winter precipitation and creek discharge (i.e., its volumetric flow). These groundwater level fluctuations are more pronounced in the deep aquifer due to its more confined nature and its use for agricultural water supply wells.

Water quality in the shallow aquifer exhibits small differences between the properties with the lowest general mineral concentrations observed beneath the Muller property, intermediate concentrations beneath the Storz property, and the highest concentrations beneath the Coors property. This concentration gradient is consistent with the interpretation of groundwater levels that indicate that the shallow aquifer east of the Plainfield Ridge more consistently receives high-quality recharge from creek infiltration. Groundwater quality results are also congruent with earlier observations made by Evenson (1985) in the area of lower Cache Creek.

Occurrences of coliform bacteria (including E. coli and other fecal species) in the mining pits is a common phenomenon for surface water bodies that are freely accessed by local mammalian wildlife. Likewise, the presence of coliform bacteria in groundwater samples is a common phenomenon observed in monitoring wells that have not undergone sanitary disinfection. The presence of these bacteria is considered to be indicative of conditions in the well structure (and/or the immediate aerated area around the well screen) and not within the aquifer. The detection of fecal species in groundwater samples from both upgradient and downgradient wells is attributed to sample contamination during sampling, sample handling, or to their introduction to the well structure during sampling activities, such as depth-to-water measurements. Their detections occur across the site in both upgradient and downgradient wells and they are not attributed to mining activities.

In conclusion, the 2020 monitoring results are consistent with the historical data record. The existing data record, including data collected prior to wet-pit mining operations, shows no evidence or indication that mining operations have caused changes in groundwater levels or quality to date.

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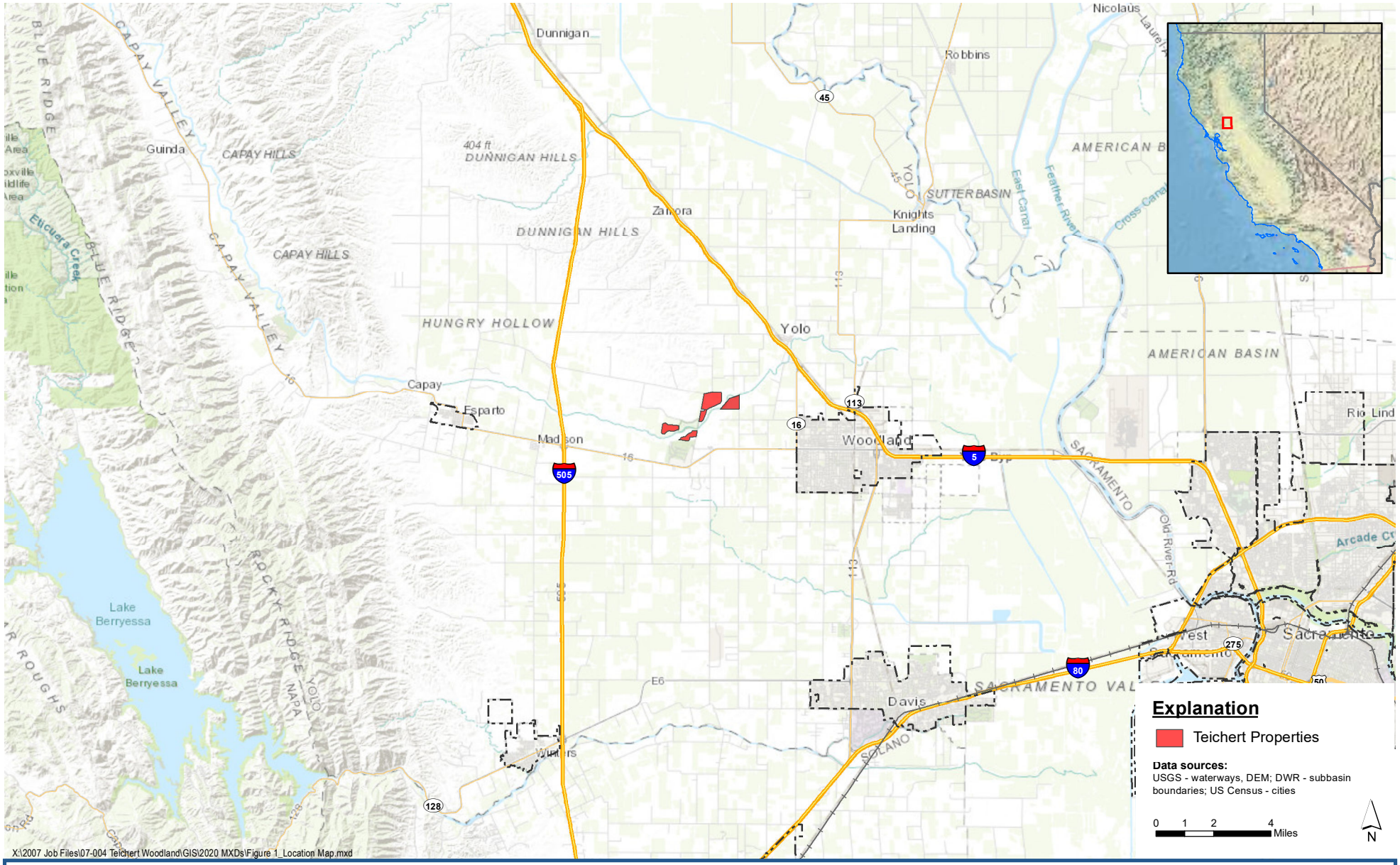
FIGURES AND TABLES



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Location Map

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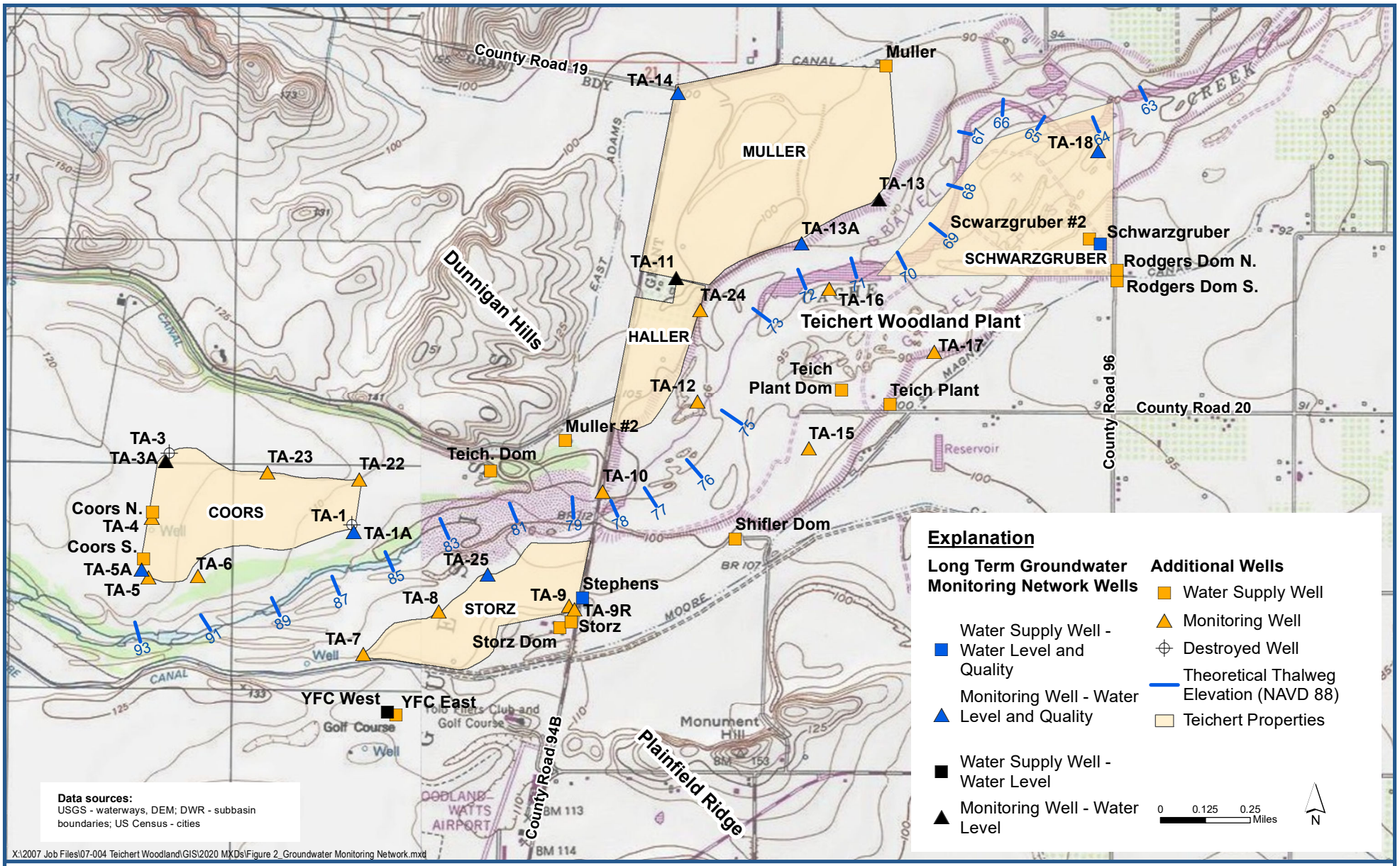
Teichert Aggregates, Yolo County

Figure 1



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Groundwater Monitoring Network

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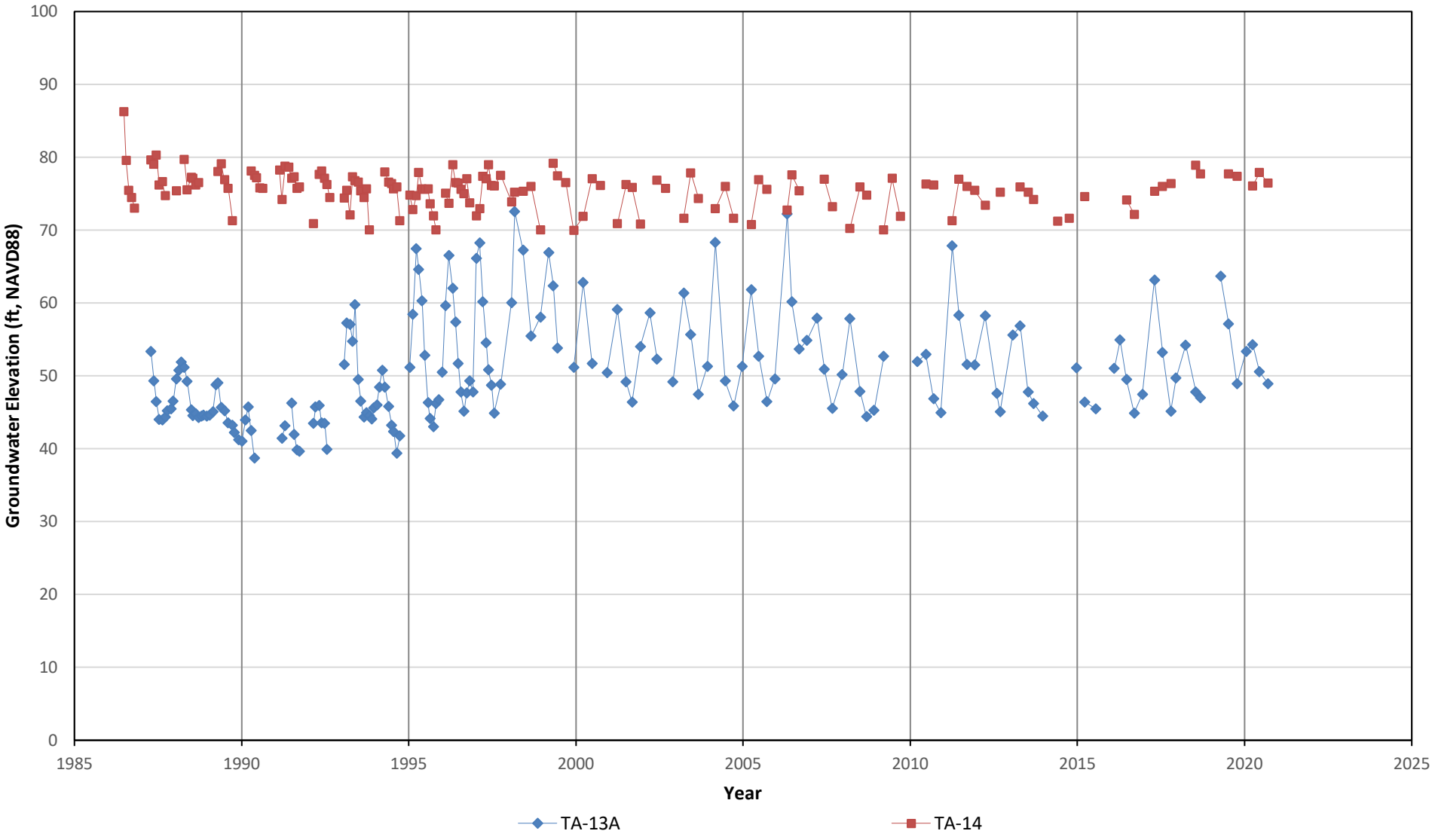
Teichert Aggregates, Yolo County

Figure 2



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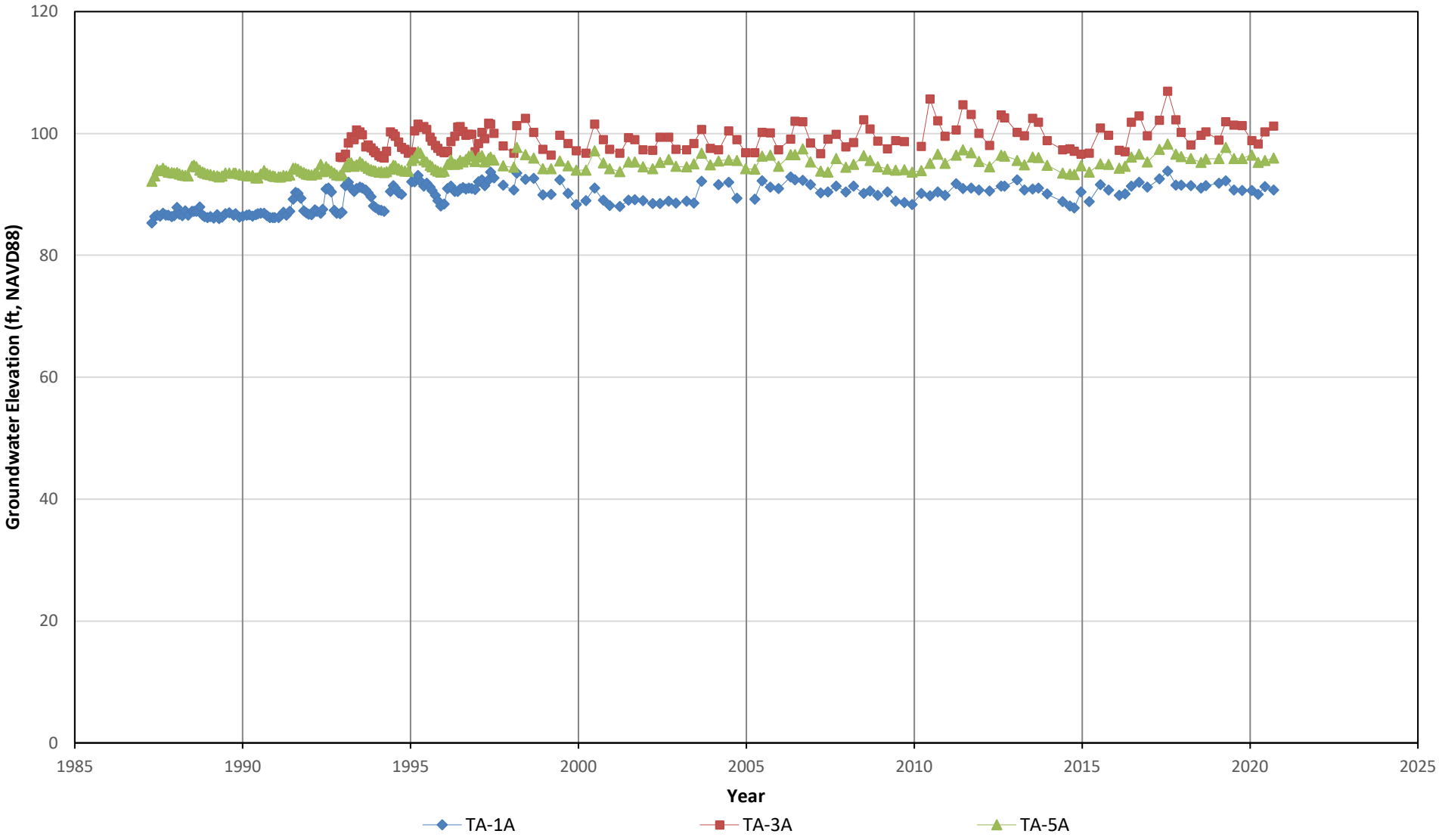
Groundwater Levels
Muller Property Shallow Wells

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 3



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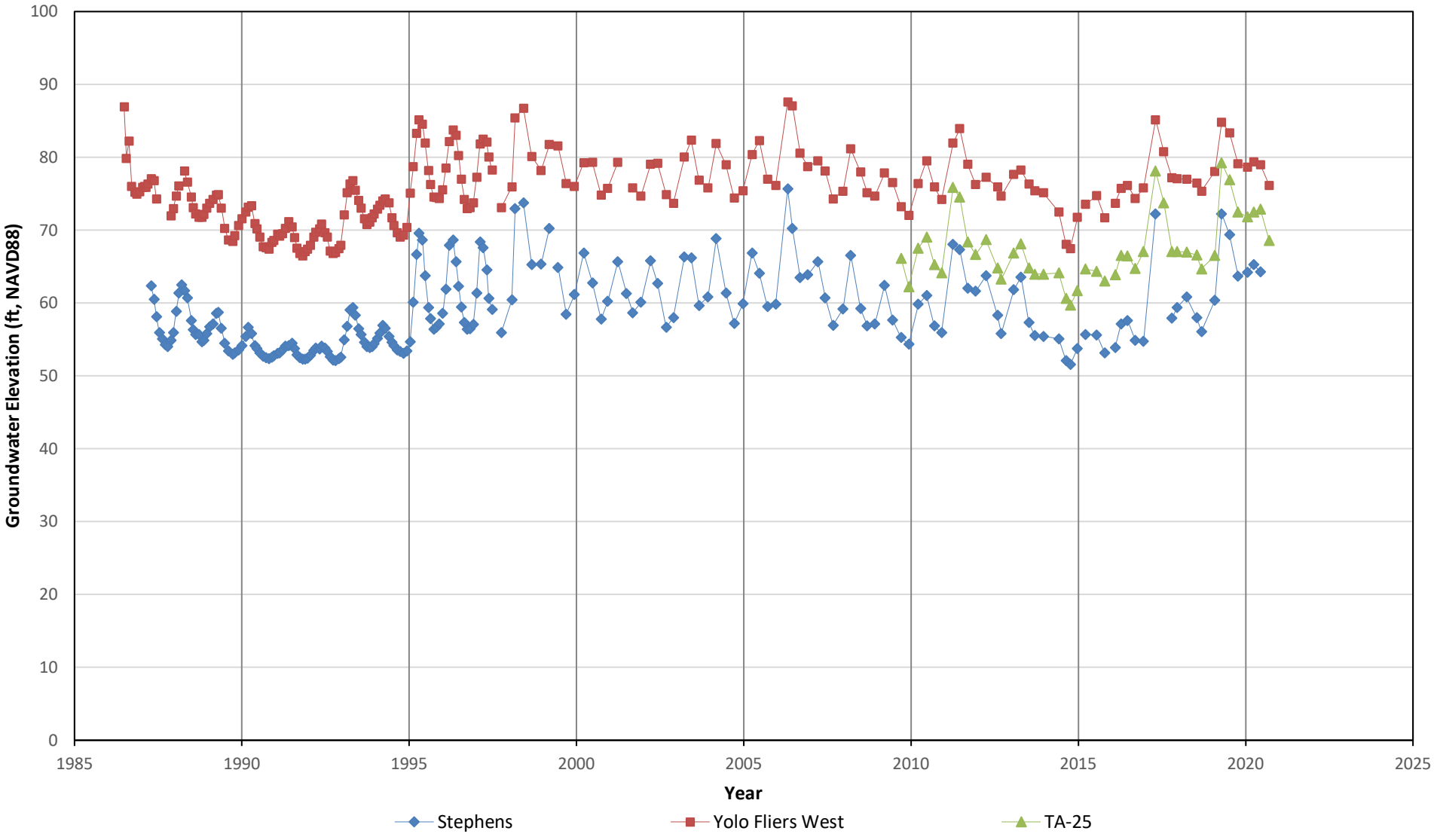
Groundwater Levels
Coors Property Shallow Wells

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 4



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Groundwater Levels
Storz Property Shallow Wells

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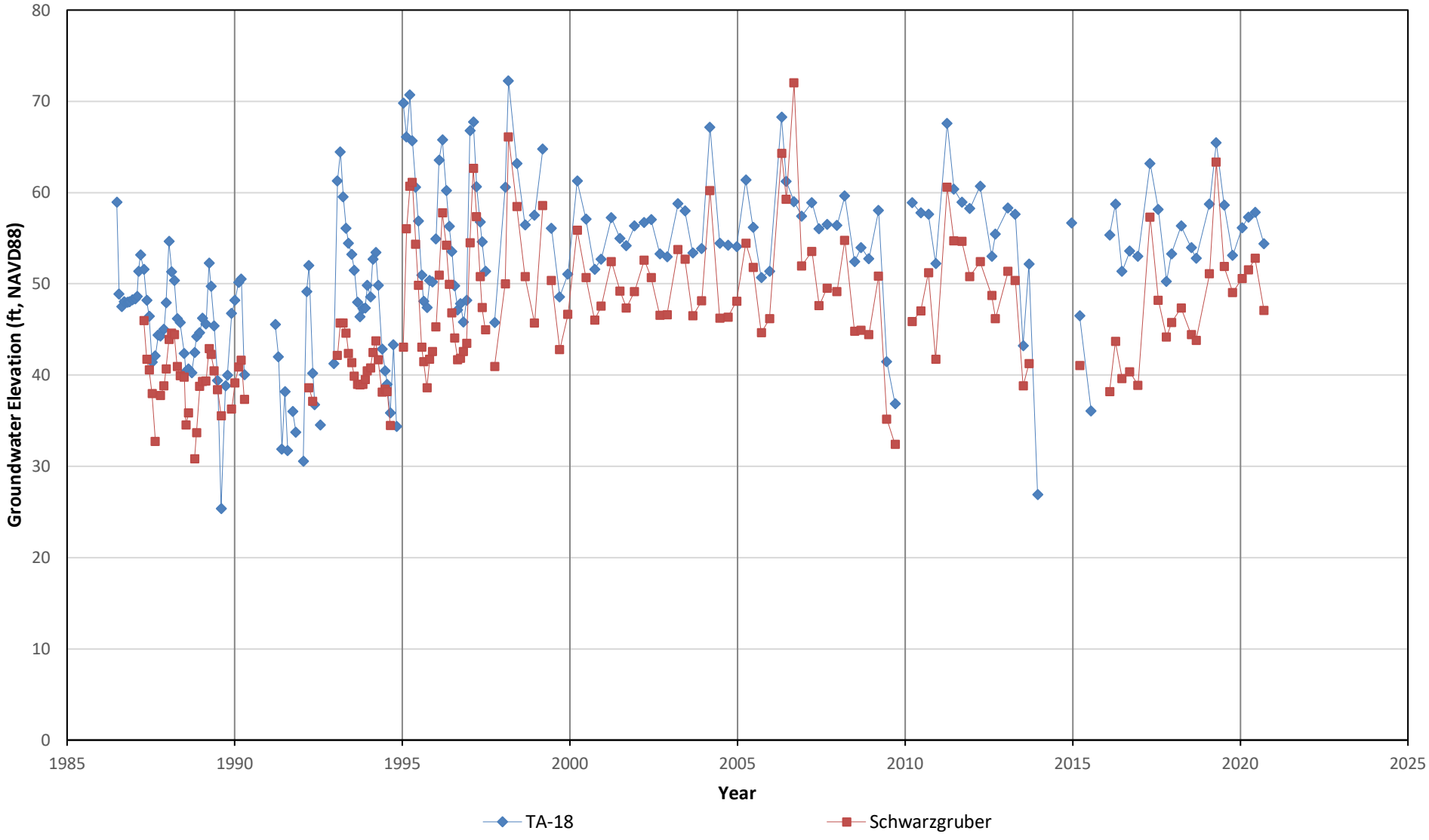
Teichert Aggregates, Yolo County

Figure 5



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Groundwater Levels
Schwarzgruber Property Shallow Wells

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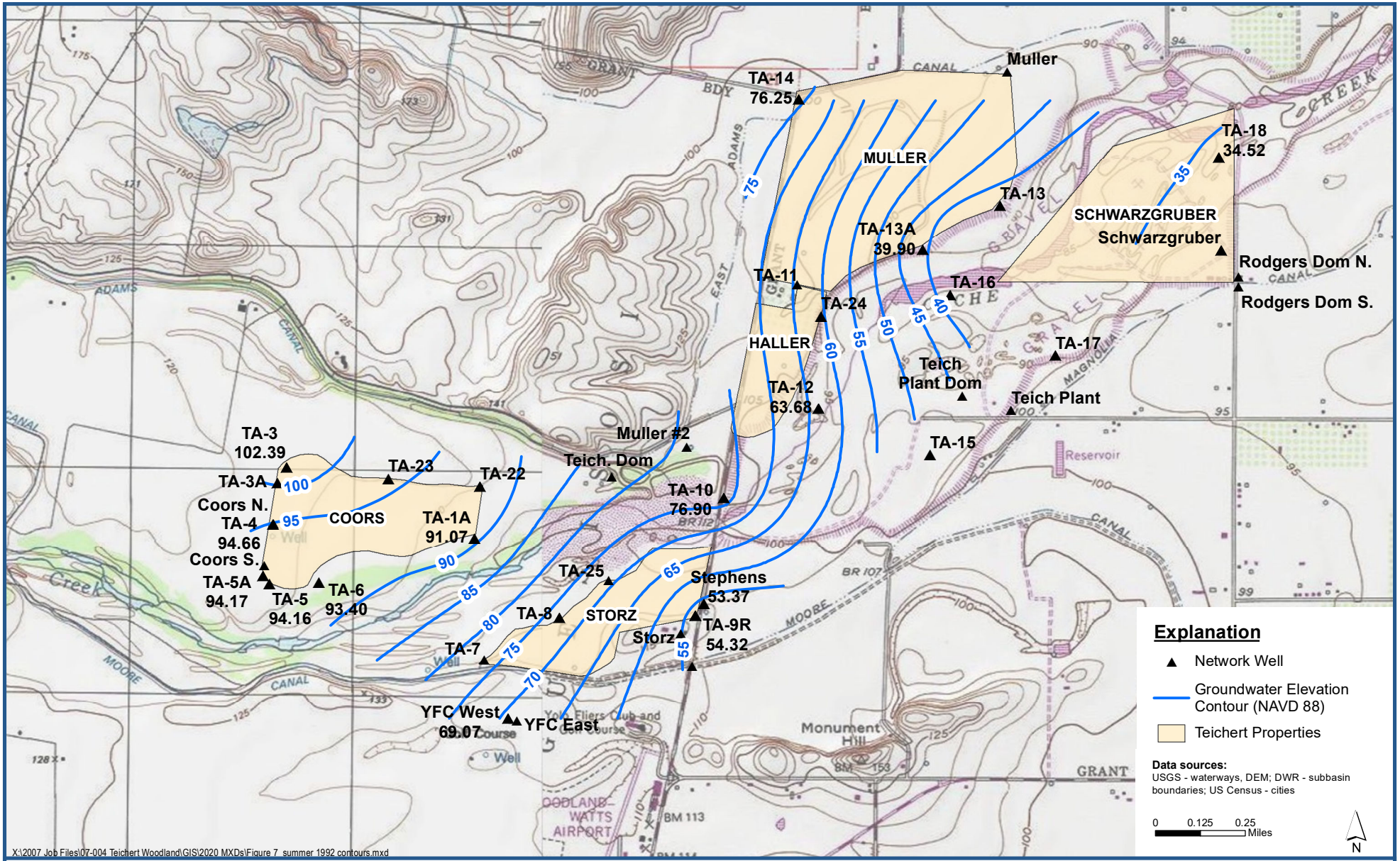
Teichert Aggregates, Yolo County

Figure 6



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Contours of Equal Groundwater Elevation, Summer 1992

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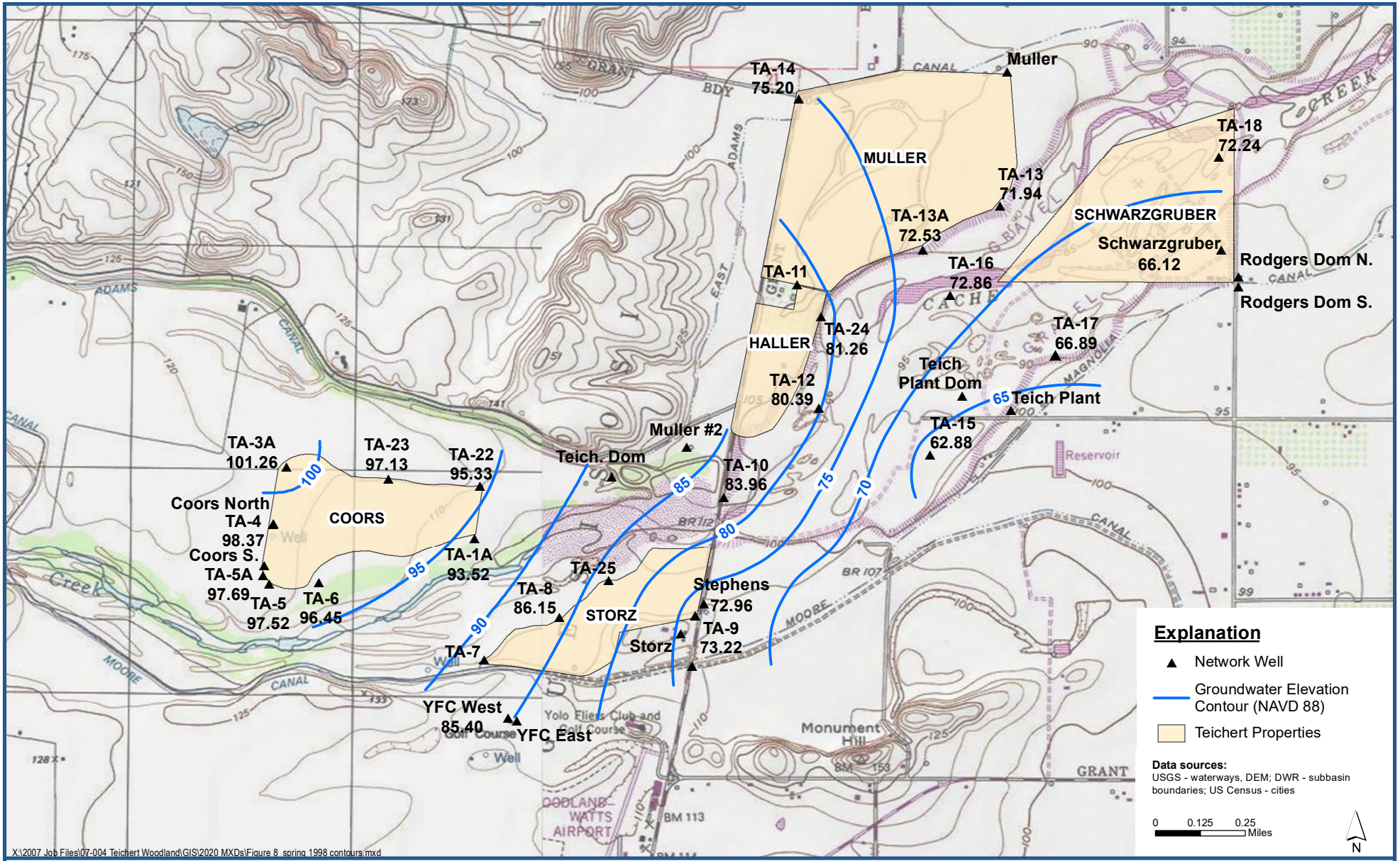
Figure 7



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Contours of Equal Groundwater Elevation, Spring 1998

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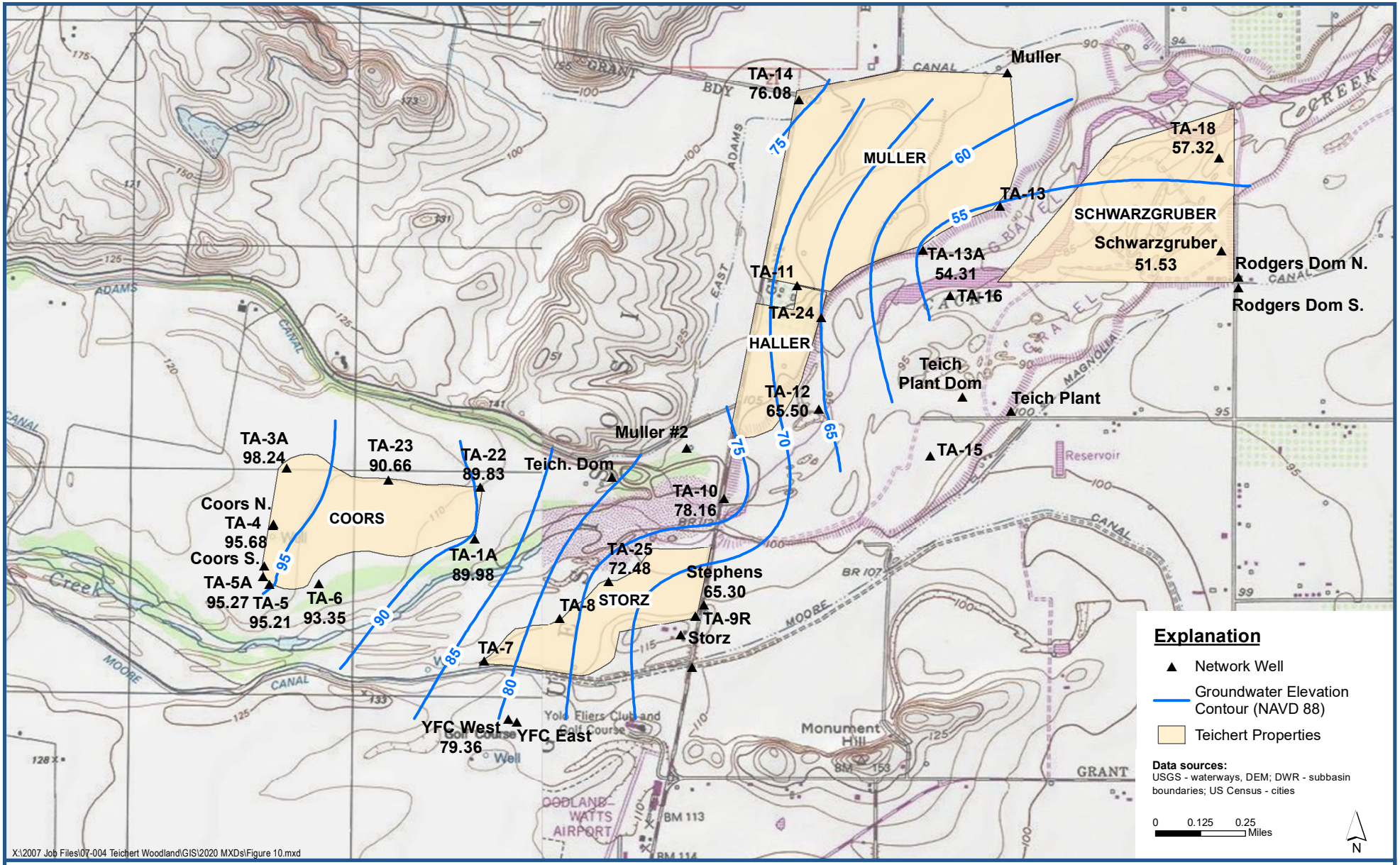
Figure 8



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Contours of Equal Groundwater Elevation, March 2020

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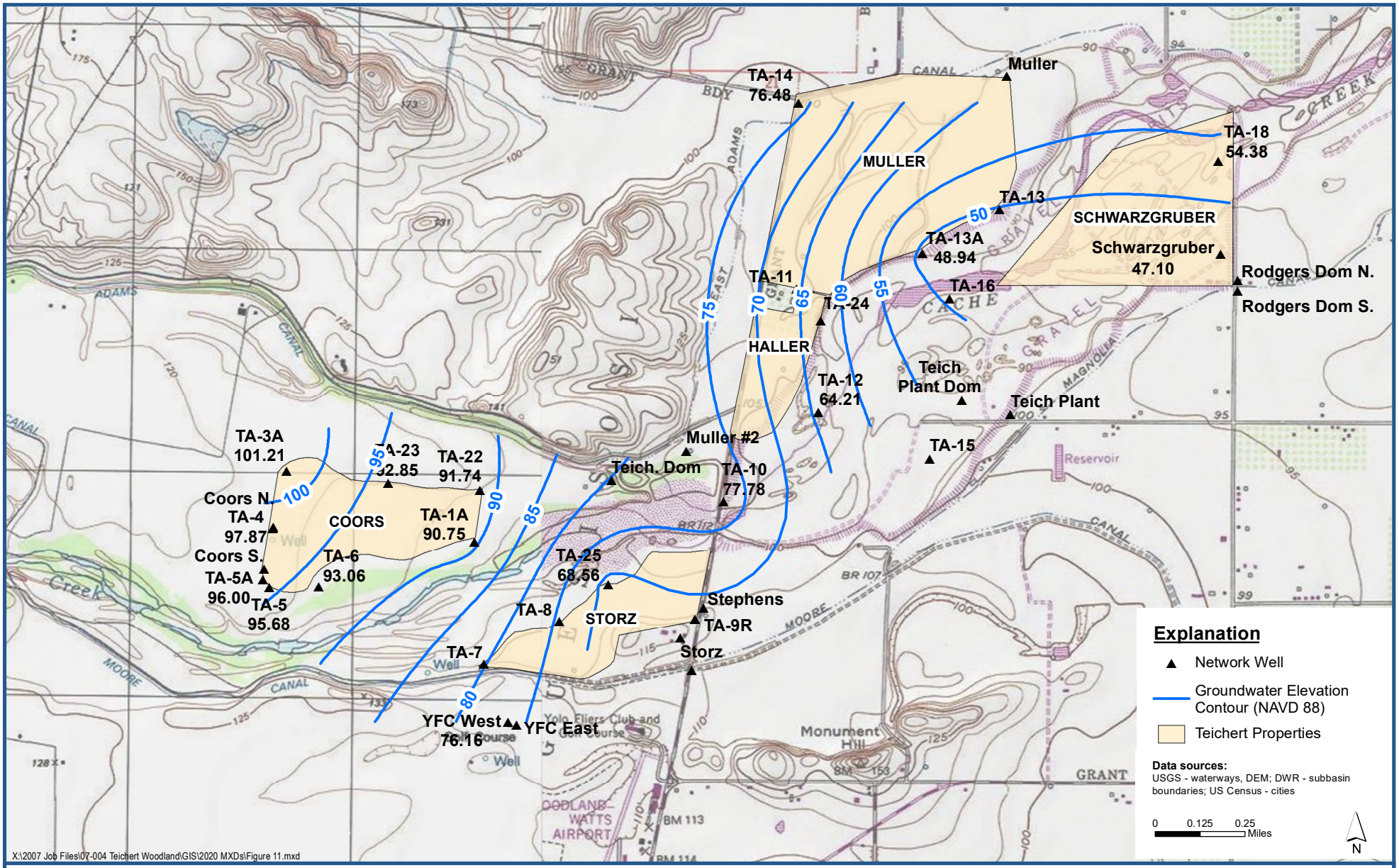
Figure 9



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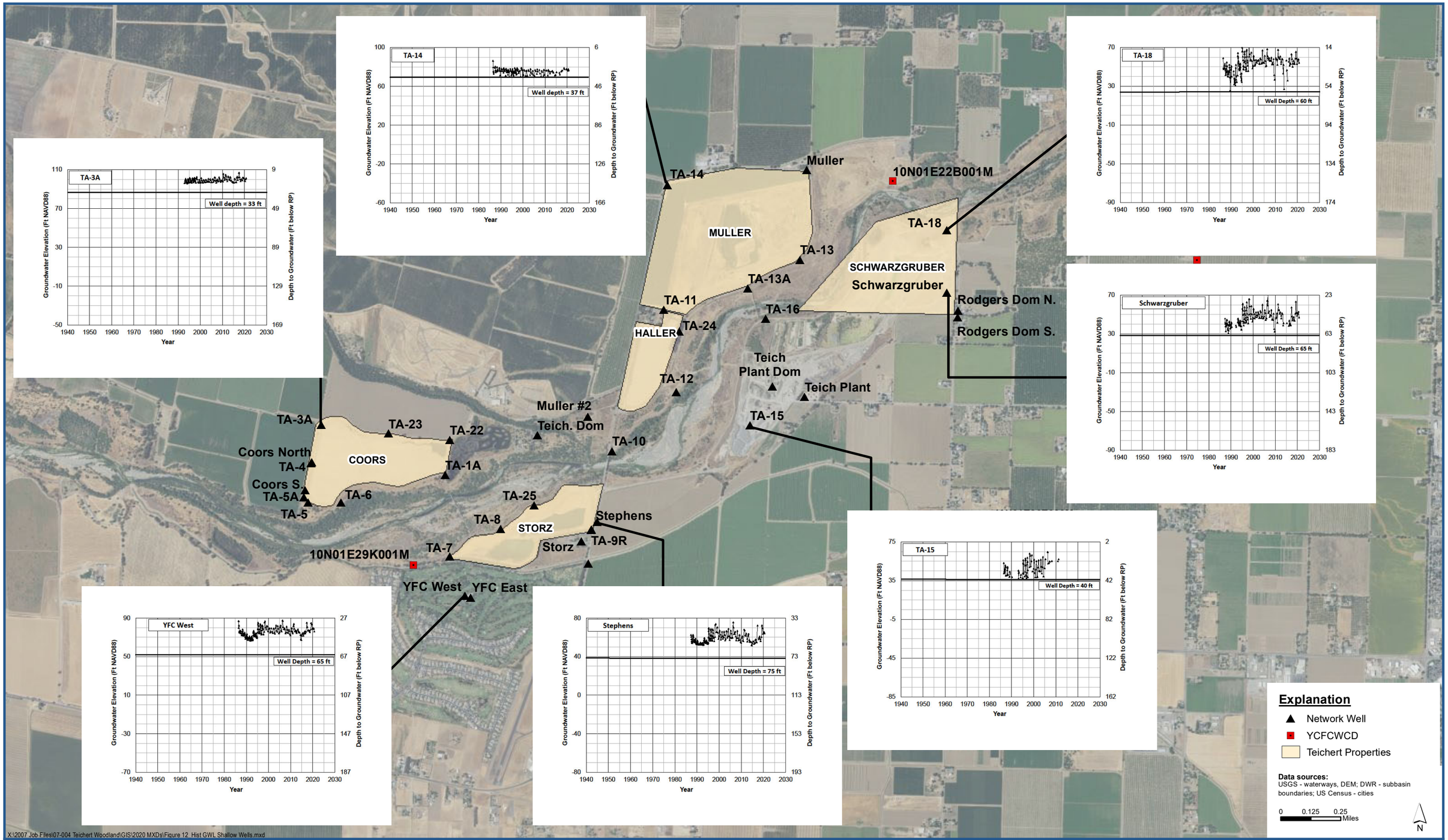
Contours of Equal Groundwater Elevation, September 2020

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site

Figure 10



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Historical Groundwater Levels, Shallow Wells

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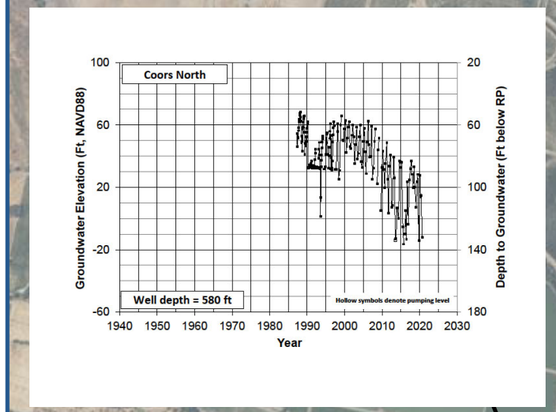
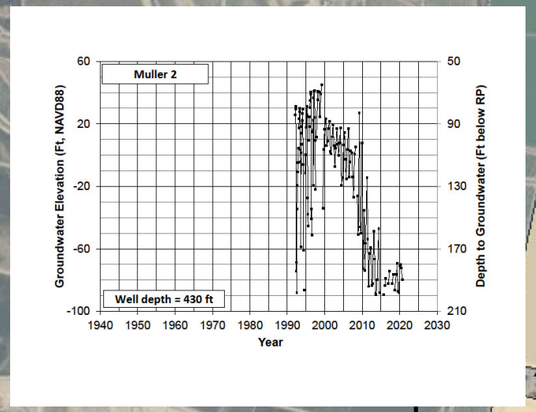
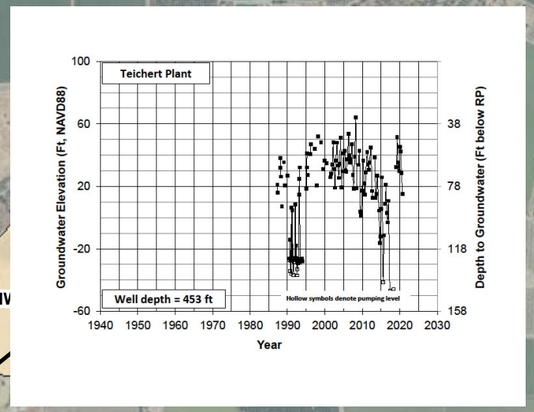
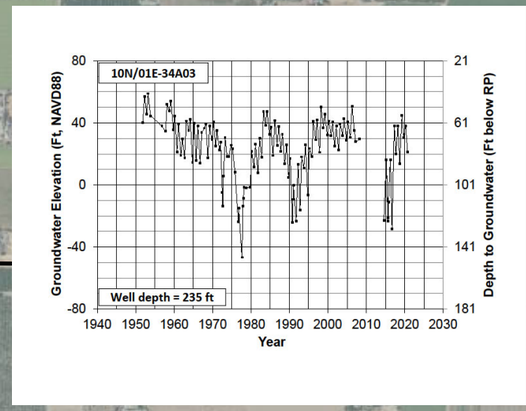
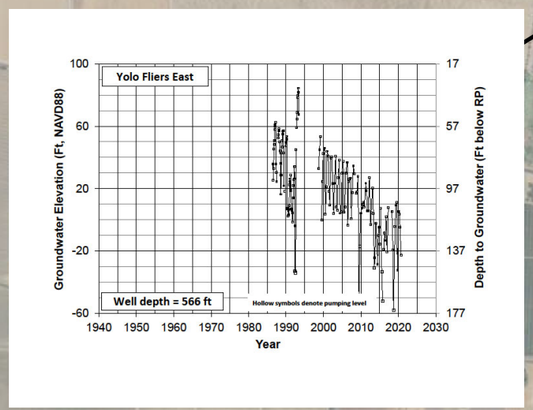
Figure 11

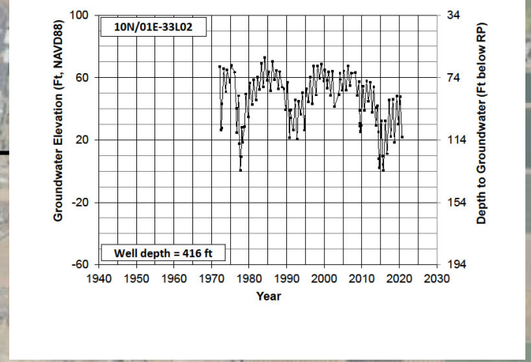


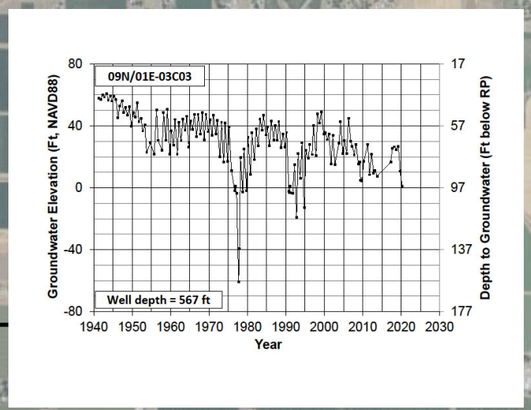












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Historical Groundwater Levels, Deep Wells

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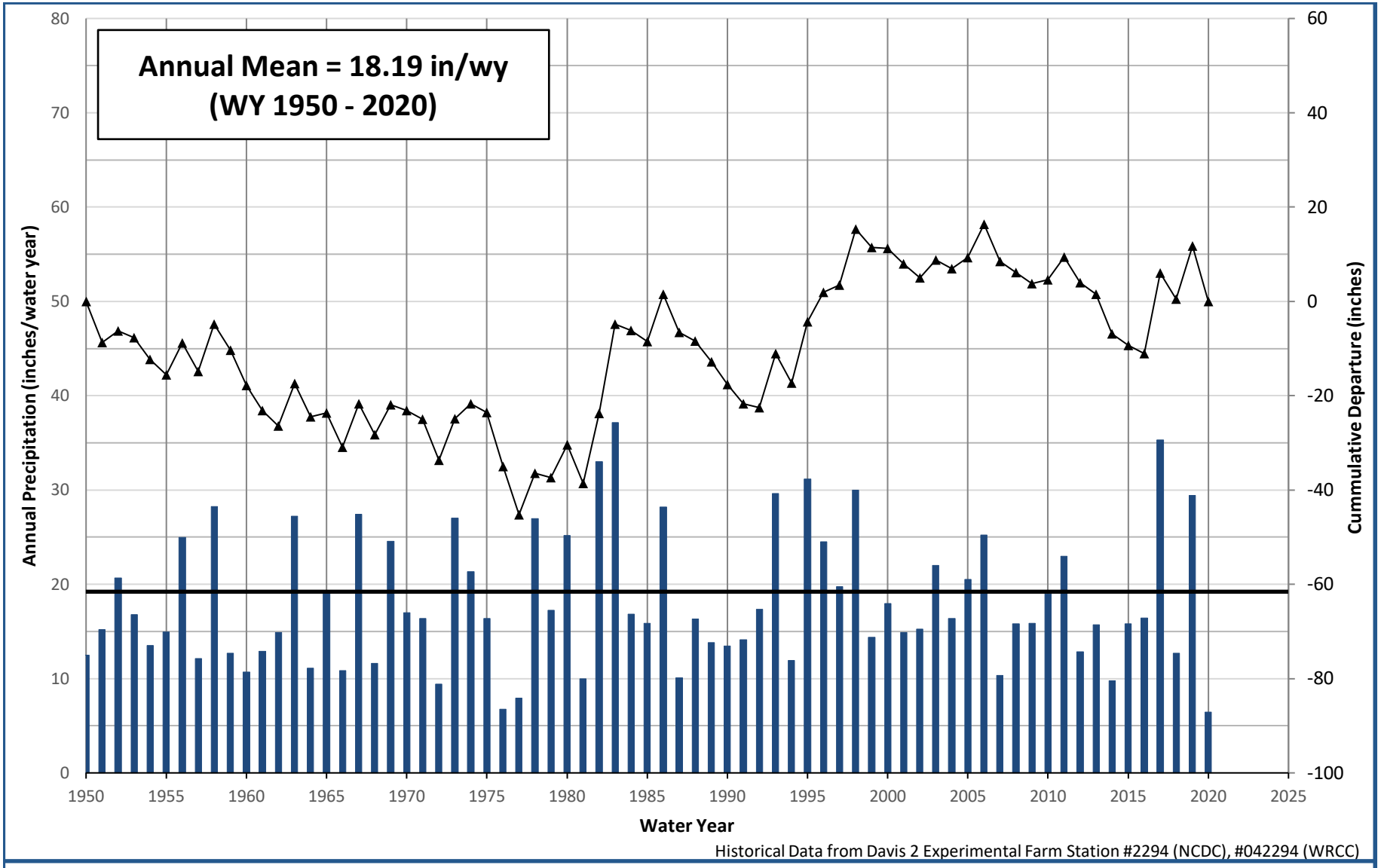
Figure 12



Historical Data from Davis 2 Experimental Farm Station #2294 (NCDC), #042294 (WRCC)

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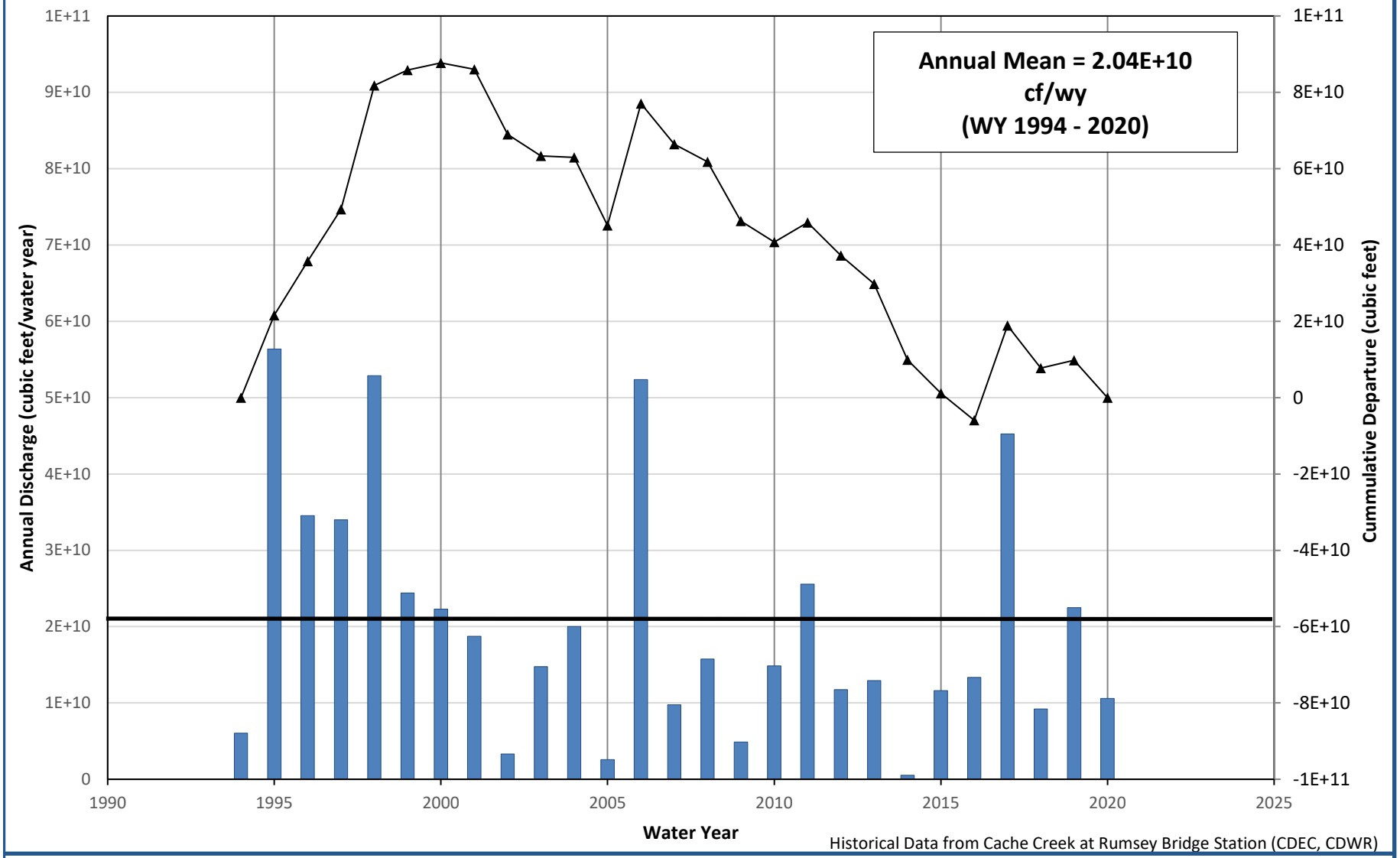
Sacramento Area Historical Precipitation

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 13



Historical Data from Cache Creek at Rumsey Bridge Station (CDEC, CDWR)

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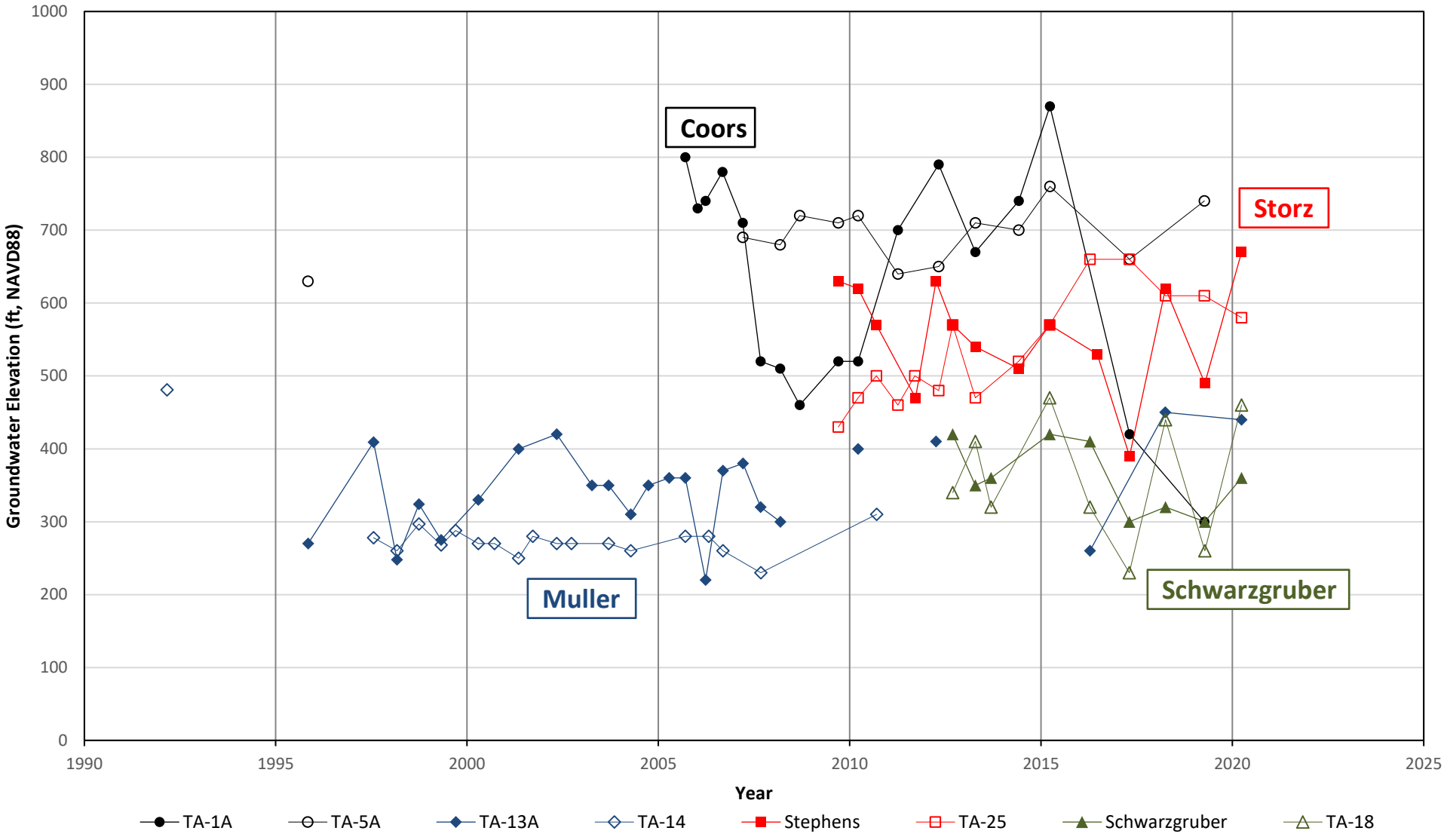
Historical Stream Discharge
Cache Creek at Rumsey Bridge

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 14



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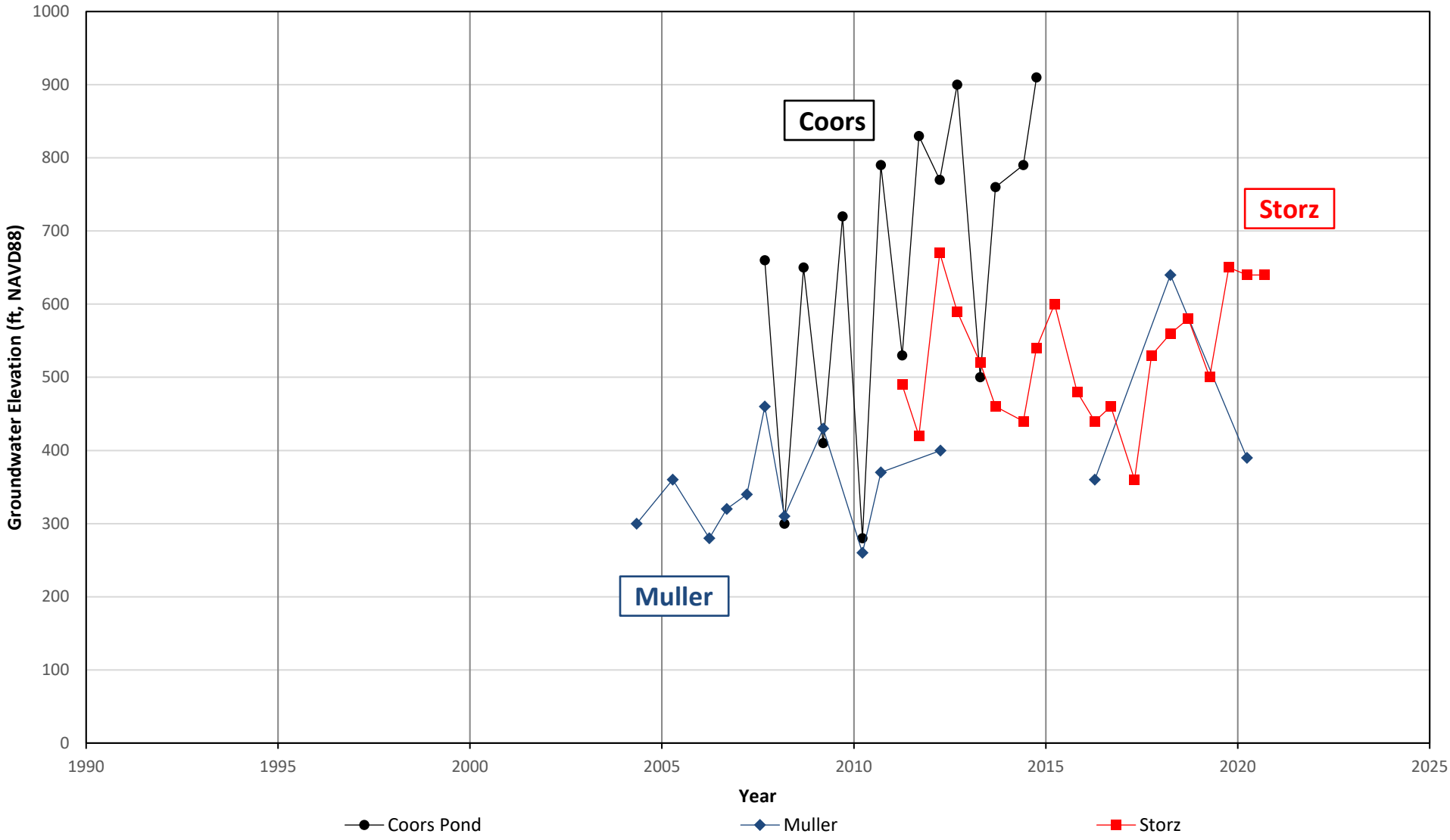
Total Dissolved Solids in Shallow Groundwater

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 15



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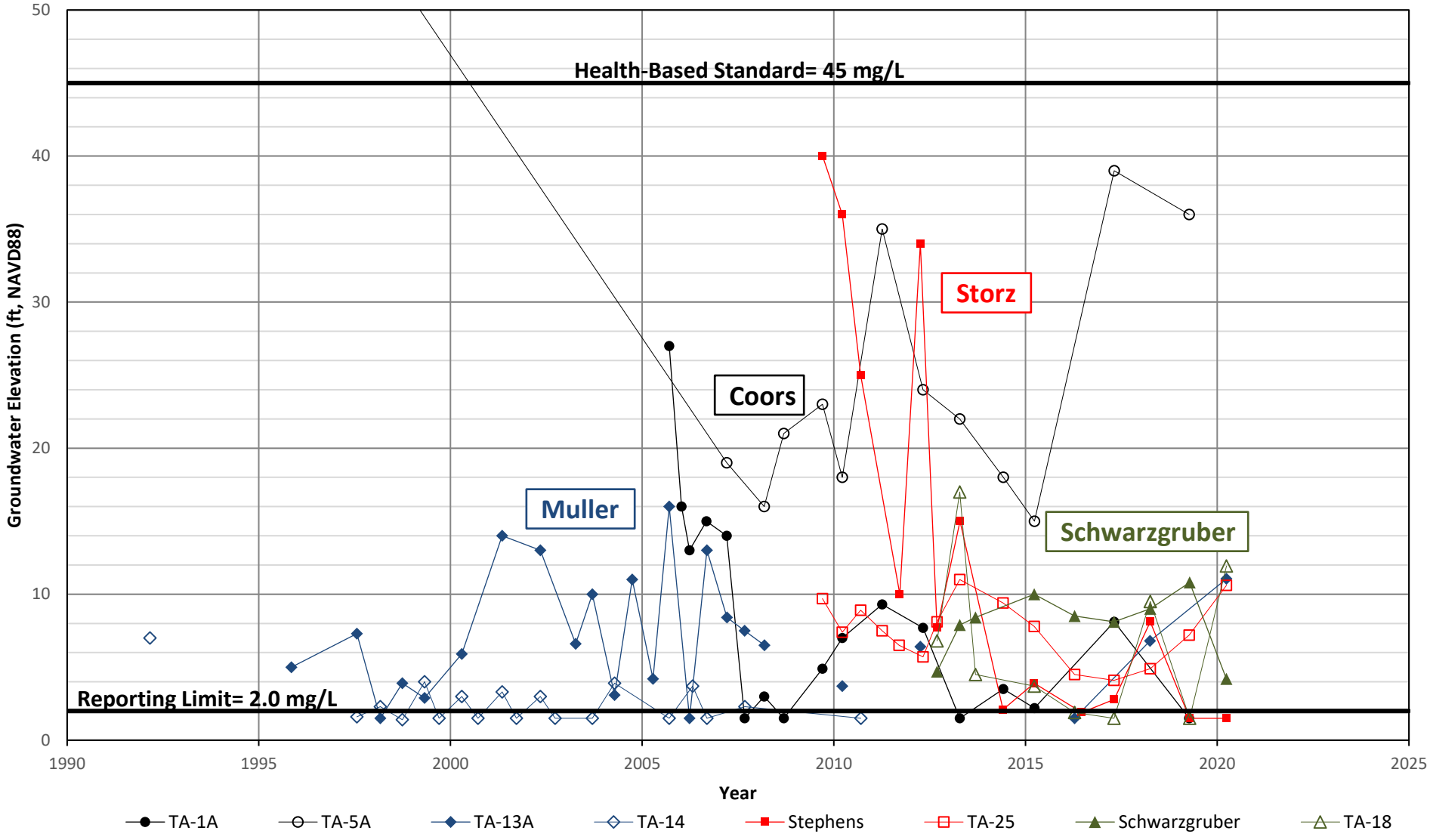
Total Dissolved Solids in Pond Water

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 16



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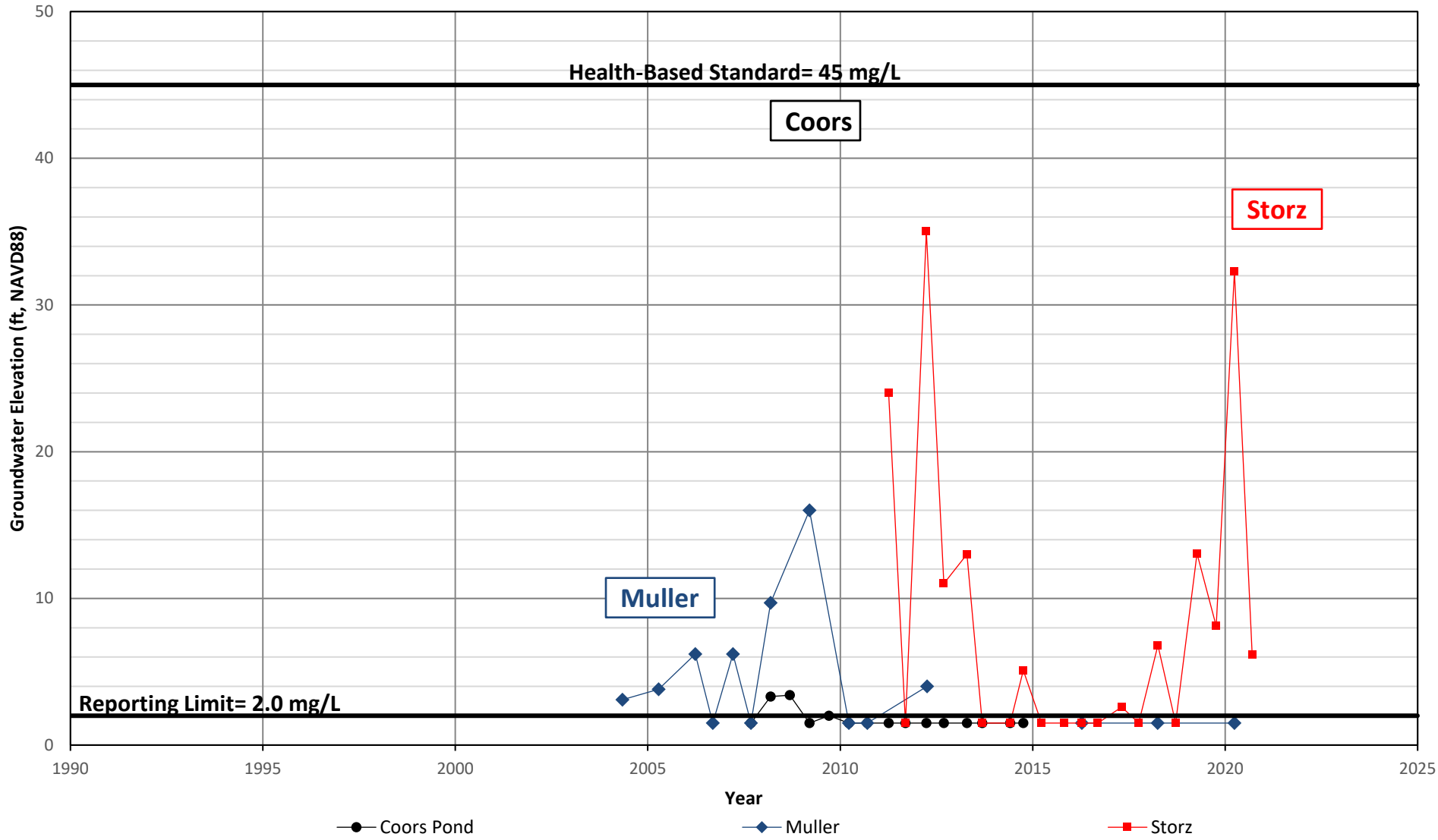
Nitrate Concentrations in Shallow Groundwater

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 17



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Nitrate Concentrations in Pond Water

2020 Annual Report- Groundwater Conditions in the Vicinity of the Woodland Plant Site
Teichert Aggregates, Yolo County

Figure 18

Table 1
Depth-to-Water Measurements – Teichert Aggregates, Woodland Properties

(all measurements in Feet below reference point)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
6/26/1986	17.00		14.00	--	20.00	20.20		19.80	24.00	23.50	41.00		23.50	23.00	26.50			20.00	24.00	21.50	29.00	25.50							30.00	81.00													
7/21/1986	22.43			--	26.93	25.43		24.82	32.06				28.42	30.40	24.24			26.64	34.31	28.27		35.57							37.05	91.40													
8/18/1986	23.50			--	27.58	25.96		25.21					28.48	38.06	32.25	40.85		30.80	34.05	29.80		36.90							34.68	83.85													
9/18/1986	23.53		20.41	--	27.95	26.23		25.38					28.48	39.10	32.45			31.79	33.62	28.06	51.25	36.40							40.94	71.62													
10/20/1986				--		26.49		25.38					28.54		32.50			33.25	32.21	26.21	48.86	36.46							41.67	68.42													
11/14/1986	23.68		20.38	--	28.33	26.58		25.58					28.83		32.79				31.42	26.35	47.92	36.39							42.00	66.21													
12/16/1986	23.70		20.33	--	28.18	26.85		25.59					28.74		32.85				30.83	28.82	47.10	36.16							41.66	58.82													
1/16/1987	23.60		20.13	--	28.08	26.52		25.51					28.60	39.68	32.66				29.83		46.06	36.10							41.02	56.19													
2/3/1987	23.60		20.30	--	28.08	26.54		25.48					28.47		32.52				30.00		46.21	35.79							40.88	56.90													
2/18/1987	23.60		20.30	--	28.08	27.00		25.63					28.27	39.68	31.79				28.52	26.13	38.58	33.04							41.02	56.02													
3/13/1987	23.60		20.48	--	28.43	26.00		25.73					27.55		31.53				26.45	25.69	38.75	31.24							40.60	54.45													
4/17/1987		27.67		--			28.85	26.85				50.96	29.32		32.51		46.47	26.58	27.38	26.02	42.22	32.86					65.52	67.06	39.85	80.88	58.59	50.25			49.30				76.60			
5/19/1987		26.61		--	28.18	27.25	28.00	26.33				52.60	28.75		32.14		50.48	27.20	36.72	28.48		36.26					73.81	75.00	40.09	86.46		52.09			53.50				81.69			
6/15/1987		26.35		--	26.89	25.88	26.96	24.30				54.97	28.98		32.33		53.34	25.96		30.30		37.98					65.30	66.51	42.62	92.31		54.49			54.69							
7/17/1987		26.52		--	26.10		27.10	25.27				57.30	29.64		33.34		55.82	30.03		27.16		43.01					68.49	69.60				56.68			57.30							
8/20/1987		26.07		--	27.10	25.66	26.69	24.89				58.33	29.07		32.84		55.84	29.60		26.57		42.35					67.80	68.34				57.57			62.52							
9/21/1987		26.34		--	27.42	25.96	27.09	25.23				58.95					55.49	31.50		27.64		40.07					63.46	64.10				58.35										
10/14/1987		26.39		--	27.91	26.17	27.30	25.33				59.18	29.02		32.75		54.59			25.93		40.15					61.43	62.24				58.57			57.51							
11/23/1987		26.57		--	27.62	26.29	27.44	25.32				58.44	29.05	38.35	32.79		54.34			27.16		39.43					57.74	58.65	44.92	64.21		57.76			56.43							
12/15/1987		26.46	20.50	--	28.20	26.32	27.49	25.37				57.39	28.60		32.01		53.30		36.52	29.38		36.52					56.11	57.06	43.98	62.38		56.66			54.56							
1/18/1988	23.46	25.13	20.47	--	28.26	26.25	27.43	24.98				54.64	26.54		22.07		50.26	30.83	31.39		38.43	29.79					53.57	54.61	42.23	58.70	58.16	53.76			51.36				59.48			
2/16/1988	23.23	26.19	20.46	--	28.28	26.47	27.64	25.48				52.25	28.81		30.95		49.03		28.74		46.70	33.09					52.20	53.28	40.87	60.00	55.67	51.27			50.64				65.75			
3/15/1988		26.42		--	27.53		27.81	25.67				50.93	28.75		31.10		47.94		27.82	26.19	46.39	34.04					51.43	51.06			55.13	50.10			50.80				71.52			
4/15/1988	23.31	25.65	20.46	--	28.32	26.76	27.92	25.92		31.80		51.51	28.71		31.31		48.67	26.53	35.37	24.82		38.24					54.98	55.94	38.78	66.98		50.94			54.32							
5/17/1988	23.30	26.35	20.47	--	28.32	26.43	28.01	26.02				52.70	29.35		31.88		50.55	30.71	36.15	27.20		38.69					57.49	58.39	40.33	72.58		51.93			55.34							
6/30/1988	23.37	25.71	20.04	--	26.02	25.25	26.35	24.65				55.53	28.93		32.46		54.47	29.02		28.76		42.07					71.08	73.35	42.39	80.72		55.00			55.47				90.36			
7/20/1988	23.39	25.72	20.49	--	26.02	25.12	26.22	24.46				56.82	28.77		32.51		55.28	29.09		31.82		44.02					70.67	72.55	43.79	100.47		56.25			60.73							
8/16/1988	23.40	25.73	20.49	--	26.54	25.33	26.46	24.52				57.57	28.78		32.67		55.01	30.06		25.88		43.78					67.05	68.12	44.67	88.15		56.93			59.39							
9/20/1988	23.43	25.04	20.49	--	27.55	25.84	26.99	25.03				57.72	28.79		32.76		55.56	29.75		27.01		44.20					76.89	78.00	45.14	88.05	76.18	56.96										
10/21/1988	23.44	26.39	20.49	--	27.97	25.18	27.33	25.33				58.57	28.84		32.92		55.32			25.09		41.97					62.60	63.62	45.14	73.78	72.02	57.92			64.44							
11/11/1988	23.46	26.61	20.50	--	28.14	26.31	27.46	25.36				58.39	28.74		32.97		55.19			25.41		40.23					61.04	62.04	44.73	70.29	70.59	57.73			61.59							
12/16/1988	23.50	26.80	20.50	--	28.27	25.47	27.63	25.47				57.49	28.49		32.99		55.31			32.50		39.78					58.02	58.93	43.89	65.90	64.65	56.83			56.50							
1/16/1989	23.45	26.57	20.50	--	28.33	26.57	27.74	25.56				56.57	28.65		32.73		55.21		38.03			38.19					55.93	56.87	43.20	61.94		55.90			55.97				62.29			
2/23/1989	23.48	26.87	20.50	--	28.36	26.77	27.92	25.74				56.18	28.80		32.98		54.74		37.56	34.43		38.84					54.33	55.33	42.68	59.91	68.18	55.52			55.92							
3/28/1989	23.48	26.32	20.50	--	28.40	26.79	27.96	25.82				54.85	28.33		31.73		51.05		32.68	30.75		32.18					54.07	55.01	42.12	59.68	59.14	54.00			52.34							
4/18/1989	23.47	26.95	20.51	--	28.42	26.92	28.13	26.00				54.23	28.82		32.28		50.76	28.17	34.92	30.94		34.72					64.45	66.08	42.03	74.03	61.71	53.89			52.98				77.18			
5/23/1989	23.47	26.70	20.52	--	28.34	26.84	27.96	23.12				56.48	28.81		32.61		54.12	27.16		32.86		39.05					78.72	78.29	43.87	95.04		56.09			54.81							
6/29/1989	23.44	26.14	20.23	--	28.28	26.41	27.53	25.58				58.78	29.09		32.98		54.59	29.33		31.15		45.03					71.86	72.53	46.66		81.28	58.16			56.86							
8/8/1989	--	26.00	20.50	--	28.04	26.34	27.48	25.54				59.75	29.15		33.05		56.28	30.51		27.53		59.05					73.43	73.77	48.25	98.58		59.19			59.70							
9/25/1989	--	26.38	20.51	--	28.10	26.36	27.51	25.42				60.14	28.90		33.02		56.61	34.94		32.23		45.61					70.42	70.86	48.44		77.04	59.63										
10/16/1989	--	26.14	20.51	--	28.15	26.38	27.53	25.40				60.09	29.04		33.11		57.59					44.44					67.62	68.13	47.68		73.79	59.47										
11/28/1989	--	26.70	20.51	--	28.23	26.49	27.66	25.38				59.55	28.94		32.77		58.62					37.65					64.59	65.22	46.28	69.42	69.14	59.04			58.99							
1/5/1990	--	26.55	20.52	--	28.30	26.64	27.82	25.68				59.00	28.94		32.50		58.81					36.25					61.88	62.47	45.34	67.30	66.36	58.47			56.09				70.74			
2/14/1990	--	26.36	20.54	--	28.30	26.72	27.91	26.63				57.85	28.54		31.67		55.87					34.26					59.28	60.08	44.42	65.07	63.58	57.22			54.39							
3/14/1990	--	26.29	20.52	--	28.33	26.73	27.97	25.68				56.61	28.59		31.64		54.08		38.38		26.34	33.89					58.01	58.68	43.73	63.27	62.24	55.96			53.61							
4/16/1990	--	26.56	20.48	--	28.35	26.73	27.92	25.98				57.34	29.01	39.50	32.74		57.33	28.14				44.39					87.20		43.54	110.00	79.10	56.83			57.92							
5/23/1990	--	26.32	20.42	--	28.35	27.10	28.31	26.30				59.03	28.98		32.36		61.09	28.75			21.44						87.54	89.83	46.00	109.48	103.10	58.47							125.00			
6/15/1990	--	26.13	20.48	--	28.36	27.13	28.28	26.45				59.44	29.14		32.49			29.05			21.23						87.19	--	46.73	109.35	122.69	58.88							123.89			
7/18/1990	--	26.07	20.48	--	28.37	26.59	27.69	25.94				60.00	29.19		34.36			30.45									87.00	--	47.89	114.33	130.82	59.43							124.28			
8/21/1990	--	26.07	20.49	--	27.80	25.88	27.10	24.80				60.51	29.48		35.31			30.51									86.45	--	49.16	110.29	117.34	59.92							111.79			
9/24/1990	--	26.42	20.48	--	28.12	26.38	27.60	25.64				60.63	29.96		35.69						20.06						85.40	--	49.29	113.58	102.35	60.15							132.00			
10/24/1990	--	26.73	20.48	--	28.27	26.69	27.84	25.92				60.48	29.95		35.72						19.77						86.98	--	49.54	107.82		60.25							125.30			
11/26/1990	--	26.74	20.49	--	28.27	26.73	27.98	25.90				60.59	29.98		35.72						20.67						86.45	--	48.59	94.58	84.56	60.03							133.56			
12/14/1990	--	26.73	20.49	--	28.33	26.85	28.05	25.92				60.42	29.45		35.72						20.59						84.47	--	48.33	90.40	82.01	59.87							124.72			
1/28/1991	--	26.74	20.49	--	28.35	26.94	28.16	25.91					28.85		35.71												86.45	--	47.48	92.27	104.72	59.53							91.26			
2/19/1991	--	26.41	20.49	--	28.40	26.97	28.16	26.00				59.98	28.91		33.19			28.01									86.97	--	47.73	97.11	85.81	59.45							124.22			
3/19/1991	--	25.92	20.49	--	28.37	26.54	27.86	25.61				59.67	27.77		23.10		58.39	32.01			17.43	38.88					83.07	--	47.41	88.24	79.28	59.05							123.80			
4/22/1991	--	26.36	20.49	--	28.32	26.76	27.95	25.79				59.21	28.77		32.20		56.67	27.47			18.55	42.44					86.52	--	46.69	98.20	85.00	58.55				90.70			93.00			
5/30/1991	--	25.77	20.49	--	28.33	26.68	27.84	25.77				58.95	28.60		32.45			27.58			19.95	52.54					87.49	--	45.77	109.75	109.39	58.47				112.25			124.38			
7/2/1991	--	23.75	20.38	--	27.15	25.63	26.73	24.95				58.71	28.59		32.28		53.54	29.10			18.64	46.25					86.26	--	46.49	110.20	127.11	58.13	258.37			124.31			124.21			
7/31/1991	--	22.64	20.35	--	26.98	25.53	26.67	24.62				59.49	28.20		31.90		57.85	28.94			18.92	52.72					86.04	--	47.95	110.85	136.13	58.84	121.34			128.49	77.43		134.37			
8/28/1991	--	22.78	20.05	--	27.37	25.75	26.89	24.71				60.28	29.00		33.75		59.96	30.52			19.18						87.25	--	49.41	112.13	131.74	59.75	109.14			123.00	68.21		124.69			
9/25/1991	--	23.62	20.45	--	27.67	26.00	27.16	25.03				60.76	28.50		33.71	30.29	60.16	30.31			20.04	48.39					87.08	--	50.09	118.05	123.60	60.12	106.60			111.33	65.62		126.15			
10/29/1991	--	25.65	20.47	--	28.12	26.29	27.45	25.21				60.98	29.65		34.93						21.05	50.71					87.45	--	50.41	102.56	89.80	60.35	105.91			101.71	65.53		125.06			

Table 1
Depth-to-Water Measurements – Teichert Aggregates, Woodland Properties

(all measurements in Feet below reference point)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
11/26/1991	--	25.94	20.44	--	28.12	26.46	27.62	25.32				60.91	29.44		35.74												87.48	--	49.86	102.68	86.07	60.31	104.29			96.83	63.21		124.20			
12/19/1991	--	26.20	20.45	--	28.18	26.55	27.74	25.40				60.68	29.64		35.74												86.43	--	49.49	94.83	83.00	60.19	103.37			93.78	62.87		123.75			
1/20/1992	--	26.32	20.07	--	28.23	26.63	27.81	25.60				60.43	28.63		32.50						31.72	53.86					82.00	--	48.99	90.90	78.42	59.82	101.98	83.9		89.90	59.93		89.15			
2/25/1992	--	25.46	19.37	--	28.34	26.38	27.57	25.41				59.73	27.84		29.66		56.32	35.33			18.26	35.29					77.76	--	47.86	90.44	76.10	59.16	97.71	80.2		85.57	56.27		123.65			
3/19/1992	--	25.73	19.06	--	28.35	26.47	27.66	25.48				59.41	27.89		30.73		54.08				19.10	32.43					75.59	--	47.18	82.58	74.60	58.81	94.82	78.4	56.63	80.82	54.63		123.73			
4/30/1992	--	26.05	19.44	--	28.35	26.31	26.05	25.53				59.48	28.77		31.98		53.88	28.57			21.18	44.24						--	46.75	120.70	113.73	58.91	112.72	183.8	58.15	93.36	66.06		115.73			
5/22/1992	--	25.41		--	28.25	26.16	27.29	24.99				58.95	28.84		32.21		56.26	28.16				47.69						--	46.07	149.58	123.79	58.51	111.45	178.3		109.11	72.84		123.98			
6/26/1992	--	22.09	18.30	--	26.74	25.30	26.47	24.28				59.43	28.24		31.83		56.32	29.14									87.01	--	47.27		127.58	58.81	113.99	197.7		123.53	78.36		134.65			
7/22/1992	--	21.89	18.94	--	27.31	25.56	26.83	24.72				59.94	28.89		33.30		59.93	30.00				49.91					86.93	--	47.84	150.73	127.62	59.25	114.22	144.1		128.89	78.16		125.92			
8/21/1992	--	22.59	18.23	--	27.73	25.99	27.15	24.98				60.54	28.73		33.35			31.74									87.42	--	49.76	71.73	124.58	60.00	112.15	128.9		124.57	78.62		130.71			
9/22/1992	--	25.61	18.30	--	28.10	26.37	27.51	25.44				61.08	29.29		35.62												87.30	--	50.08		103.21	60.43	111.22	120.5		115.41	71.28		127.06			
10/21/1992	--	26.03	18.30	--	28.22	26.65	27.82	25.70				61.15	28.31		34.27												87.50	--	49.98	57.75	97.29	60.52	110.76	114.5		107.61	72.64		125.85			
11/24/1992	--	26.12	17.59	22.92	28.29	26.68	27.86	25.68				60.88	29.46		33.85								25.35	24.58			87.14	--	49.43	52.36	88.30	60.24	108.91	105.1		99.98	65.00		124.65			
12/15/1992	--	25.88		23.05	28.31	26.38	27.57	25.42				60.68	27.87		31.52						20.24	43.16	25.27	24.69				--	49.00	48.08	85.12	60.03	106.83			96.37	62.31		126.63			
1/25/1993	--	21.52	18.14	22.44	28.26	25.24	26.44	24.44		30.95		58.45	25.33		21.23	25.68	48.28	31.84	31.51	28.95	16.59	23.14	22.45	23.50			81.16	--	44.81	38.61	78.52	57.64	100.83	92.4	53.10	85.55	55.00		82.91			
2/25/1993	--	20.95	--	20.61	26.99	24.59	25.79	23.77		30.27		56.55	24.82		20.50	24.16	42.55	30.80	39.80	27.95	16.05	19.96	21.73	22.40	47.39		75.35	--	41.79	37.23	73.24	55.79	92.74	86.2	49.52	74.03	51.98		73.08			
3/29/1993	--	21.94	--	19.58	25.91	24.72	25.86	23.77				54.21	28.58		24.21	39.50	42.76	34.18	34.20		19.58	24.92	21.93	21.63			71.02	--	40.55	32.38	68.30	53.54	85.81	81.7	49.56	66.04	50.20		65.62			
4/29/1993	--	22.47	--	20.08	26.79	25.26	26.41	24.20				53.71	28.99		30.60	40.79	45.08	28.90	33.42		20.24	28.36	21.84	22.17			79.08	--	40.10	35.15	66.27	53.22	249.59	79.7	50.66	69.97	49.73		126.38			
5/25/1993	--	22.03	--	18.45	26.17	24.90	26.15	24.00				54.80	29.06		31.20		40.08	29.47			21.17	30.01	20.97	20.93			87.90	--	41.41	49.47	102.38	54.29	94.13	106.2	52.89	85.45	61.09		124.59			
6/29/1993	--	21.74	--	18.83	25.51	24.49	25.65	23.63				56.68	29.11		30.71		50.31	29.65			20.15	31.18	20.77	20.67			87.83	--	42.83		105.99	56.12	98.98	114.0	53.91	96.22	62.32		124.35			
7/27/1993	--	21.88	--	19.31	25.80	24.82	25.96	23.88				57.52	29.10		31.02		53.29	30.86			21.20	32.95	21.19	21.32			118.46	--	43.90		93.00	56.95	95.05	168.4	55.37	98.25	66.91		124.36			
8/31/1993	--	22.24	--	21.27	26.67	25.25	26.38	24.35				58.61	29.25		32.83		55.46	31.74			20.53	36.42	21.65	22.08			106.35	--	45.33		90.40	58.01	94.82	108.3	56.29	89.00	75.98		124.43			
9/28/1993	--	22.70	--	20.91	27.20	25.42	26.69	24.62				59.17	29.25		32.85		54.87	30.58			20.91	38.01	22.33	22.57			86.90	--	46.13		87.22	58.62	92.51	102.5	56.30	84.04	74.75		125.21			
10/28/1993	--	23.37	--	21.46	27.59	25.78	26.94	24.71				59.30	29.17		32.77		55.26	36.20			21.02	37.13	23.33	23.19			82.49	--	45.78		81.20	58.75	90.66	95.5	56.27	77.20	60.75		124.10			
11/24/1993	--	24.84	--	21.91	27.99	25.93	27.11	24.79				59.12	29.33		32.78		55.76					37.06	24.02	23.69			79.30	--	45.23		77.91	58.57	89.74	91.4	55.73	73.36	57.55		124.21			
12/16/1993	--	25.09	--	22.24	28.09	25.94	27.15	24.94				58.76	29.02		32.03		54.20				21.08	34.61	24.44	24.02			74.77	--	44.70		74.36	58.19	88.12	87.5	54.78	70.74	55.64		125.62			
1/19/1994	--	25.51	--	22.66	28.16	26.14	27.33	25.00				58.08	29.40		32.40		53.81					35.85	25.03	24.38			70.95	--	44.03		70.97	57.49	84.89	83.1	54.46	68.98	54.27					
2/15/1994	--	25.55	--	22.90	28.17	26.08	27.26	25.01				57.42	28.99		31.58		51.36		38.68		20.89	31.73	25.04	24.54			68.70	--	43.46		69.12	56.77	83.27	80.1	52.79	65.70	52.33					
3/18/1994	--	25.74	--	23.07	28.17	26.19	27.44	25.17				56.37	29.15		31.13		49.07		35.92			31.00	25.15	24.61			66.98	--	42.89	188.99	66.54	55.70	81.42	115.5	51.50	66.09	51.32					
4/15/1994	--		--	21.96	28.10	26.02	27.23	24.99				56.68	28.94		31.43		51.36	28.25				34.60	23.54	23.27				--	42.64		81.55	56.11		170.7	53.58	86.12	68.55					
5/26/1994	--	22.45	--	18.80	26.95	25.72	26.86	24.69				57.77	28.99		31.43	39.75	54.03	29.68			24.63	41.59	22.33	21.81				--	43.16		98.13	57.24			57.12	102.97	88.18					
6/30/1994	--	21.54	--	19.09	26.08	25.04	26.19	23.92				58.61	29.09		31.18		56.61	29.87				43.97	21.20	21.27			88.19	--	45.23		108.87	58.02		196.1	56.78	115.33	82.72					
7/21/1994	--	21.93	--	19.49	26.38	25.14	26.29	24.16				59.07	29.22		32.19		57.45	30.61				45.44	21.57	21.65				--	46.24		115.39	58.48			57.08	119.19	82.87					
8/23/1994	--	22.69	--	20.50	27.14	25.56	26.75	24.50				59.61	29.14		32.54		60.41	30.34				48.58	22.02	22.20				--	47.29		106.85	59.04			60.77	111.78	85.02					
9/27/1994	--	22.96	--	21.32	27.61	25.84	27.02	24.82				59.77	28.97		32.29		58.05	34.97				41.12	22.08	22.62				--	47.84		99.20	59.29		121.0		102.31	81.75					
10/31/1994	--		--	21.70	27.88	25.99	27.17	24.86				60.07	29.70								21.26	50.08	23.48	23.34			86.85	--	47.58		90.85	59.52		109.5		93.24	65.78					
11/1/1994	--		--																								--														
12/6/1994	--		--	22.28	28.08	26.01	27.20	24.91				59.73	28.97		32.19						20.55		24.39	24.04			86.89	--	46.52		83.15	59.18				87.04	61.64					
1/12/1995	--	20.86	--	22.06	27.57	24.19	25.46	23.26		26.17		58.68	23.31		17.82	23.76	48.67	31.45	39.20	26.14	14.80	14.64	23.03	23.74			78.84	--	41.82		77.01	57.95		91.9	52.17	78.22	55.06		79.21			
2/16/1995	--	20.87	--	18.61	25.11	23.90	25.02	23.20		30.76		53.22	25.80		22.28	32.76	41.37	33.44	34.44	32.51	16.74	18.34	21.36	21.12			71.25	--	38.21		67.65	52.54		83.9	39.22	63.65	48.95		65.66			
3/24/1995	--	19.86	--	17.55	23.96	22.73	23.96	22.34		28.86	46.82	46.84	23.07	37.32	17.14	25.43	32.35	31.48	23.76	28.08	12.18	13.75	20.56	20.34	43.35		65.91	--	33.64		62.05	45.94		78.3	34.54	55.60	42.10		56.65			
4/21/1995	--	20.80	--	18.06	23.94	23.15	24.22	22.61		29.17	43.57	43.91	26.91	38.10	22.66	28.88	35.19	28.30	20.91	30.95	12.36	18.73	20.85	20.48	45.40		65.03	--	31.74		60.82	43.05		85.2	34.14	58.15	42.97					
5/26/1995	--	21.63	--	17.91	25.00	24.17	25.31	23.24		29.72	44.39	44.60	28.17	34.86	23.15	40.45	39.55	30.58	24.77	38.29	13.13	23.82	21.01	20.64			78.66	--	32.38		62.13	43.96		137.2	40.89	68.77	44.50					
6/26/1995	--	21.10	--	18.38	25.28	24.48	25.66	23.30		31.52	49.06	49.11	28.74	34.12	24.19		46.99	30.66	34.97		20.00	27.57	20.69	20.64				--	34.93		68.19	48.88		147.3	45.39	79.99	55.70		70.39			
7/31/1995	--	21.79	--	19.67	26.18	25.02	26.20	23.92				53.57	28.88	38.21	24.92		53.52	30.58				33.48	21.28	21.36				--	38.71		80.85	53.21		155.0	52.19	106.65	61.22					
8/23/1995	--	22.33	--	20.28	26.78	25.33	26.49	24.23				55.22	28.95		31.93		55.67	32.60				36.35	21.92	21.92				--	40.64		93.71	54.75			53.77	83.04	65.87					
9/27/1995	--	23.10	--	21.05	27.49	25.76	26.94	24.71				56.81	28.88		33.09		56.81	34.31				37.02	22.90	22.89			87.48	--	42.36		81.08	56.21		100.0	56.62	75.77	57.80					
10/27/1995	--	24.00	--	21.54	27.84	25.98	27.14	24.99				56.62	28.74		32.57		53.62	36.22				34.07	23.48	23.41			79.74	--	42.40		76.85	55.95		91.4	53.49	68.94	54.77					
11/28/1995	--	24.89	--	21.97	28.11	26.13	27.30	25.12				56.19	29.11		32.88		53.06		37.70		31.71	34.21	24.30	23.90			74.18	--	42.55		71.84	55.51		85.2	52.69	64.83	52.41					
12/1/1995	--		--																								--														
1/3/1996	--	24.55	--	22.24	27.97	26.01	27.19	24.97				54.68	28.44		31.39		49.29		33.04		22.30	29.53	24.27	24.04			68.56	--	41.35		65.16	54.01		79.4	49.98	59.88	48.46					
2/7/1996	--	22.00	--	21.94	27.51	24.82	26.05	23.85		26.88		51.54	24.69		19.79	26.17	40.15	31.16	26.55	31.52	15.07	20.90	23.46	23.66			63.85	--	38.40		60.80	50.69		74.6	44.28	54.92	44.13		56.91			
3/15/1996	--	21.63	--	20.40	25.89	24.20	25.35	23.41		29.17	45.72	45.57	25.49		20.41	26.93	33.30	32.54	19.16	29.60	12.23	18.67	22.41	22.46	44.32		59.26	--	34.75		55.60	44.68		69.3	37.45	48.63	40.09		50.73			
4/26/1996	--	22.45	--	19.54	26.25	24.91	26.09	23.85		29.94	44.62	44.81	27.90		24.20	39.58	37.83	27.26	20.50	35.26	11.64	24.20	22.74	22.13	47.01		88.04	--	33.19		56.21	43.99		70.4	41.02	55.74	40.93					
5/28/1996	--	22.51	--	18.03	25.61	24.78	25.95	23.60		30.32	47.24	47.38	28.52	38.08	30.26		42.43	29.71	26.21		15.08	28.11	22.45	21.80			66.57	--	33.90		62.70	46.94		150.3	45.31	68.27	45.91					
6/26/1996	--	22.05	--	17.89	25.04	24.16	25.42	23.14		31.75		49.92	28.75	35.65	30.92		48.15	29.81	36.04		21.24	30.86	21.90	21.21			81.11	--	36.66		66.50	50.30		144.1	48.44	82.57	49.57					
7/23/1996	--	21.83	--	18.71	25.49	24.55	25.70	23.35				53.52	28.33	38.53	31.36		52.04	30.65			20.96	34.62	21.80	21.19			88.67	--	39.94		76.90	53.18		161.0	51.18	83.42	54.75					
8/27/1996	--	22.04	--	19.33	24.92	24.15	25.25	23.19				55.93	28.65		31.85		54.70	31.24			21.18	37.28	21.96	21.57			87.70	--	42.67		78.75	55.29			53.57	74.93	68.80					
9/26/1996	--	21.94	--	19.16	24.45	23.63	24.70	22.96				51.08	28.79		31.99		52.16	29.19	39.50		20.04	36.59	21.94	21.48			82.75	--	43.98		78.19	56.19		94.7	53.41	70.41	54.55					
10/30/1996	--	21.99	--	19.23	24.42	23.56	24.63	22.85				56.90	28.98		32.76		50.53	32.47	37.09		16.24	38.63	21.93	21.60			70.88	--	43.82		73.74	56.15		87.3	52.66	63.17	51.98					
12/2/1996	--	22.19	--	22.05	25.77	24.42	25.58	23.39				49.57	28.95		31.89		52.02		33.80		18.89	36.22	22.49	22.11			66.23	--	43.17		67.38	55.54		129.1	51.77	60.05	49.07					
1/9/1997	--	20.86	--	20.71	25.92	23.59	24.88	22.92		26.96		52.06	23.59		18.15	24.24	33.70	34.28	25.15	30.00	15.14	17.66	22.01	22.20	45.75		61.55	--	39.63		60.12	51.27		72.8	40.74	53.11	41.43					
2/14/1997	--	20.57	--	18.89	24.76	23.52	24.66	22.58		28.23	45.21	45.23	25.21	34.35	20.93	27.13	31.60	33.27	18.41	29.52	9.29	16.70	20.92	20.84	41.58		57.78	--	35.07		54.72	44.25		68.6	32.58	46.67	37.85					

Table 1
Depth-to-Water Measurements – Teichert Aggregates, Woodland Properties

(all measurements in Feet below reference point)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
3/20/1997	--	21.55	--	19.91	25.80	24.35	25.66	23.22		29.22	45.58	45.76	28.27		24.67	39.16	39.63	28.84	22.54	37.64	13.06	23.78	21.62	21.69			60.32	--	34.40		54.08	45.03		68.3	37.89	54.47	38.80		53.57			
4/28/1997	--	20.58	--	17.38	24.28	23.93	25.13	22.60		30.44	48.57	48.67	28.47		30.39		45.27	29.22	31.16		16.27	27.68	21.01	21.00				--	34.82		60.89	48.10		85.4	44.45	72.88	43.46					
5/21/1997	--	19.26	--	17.51	24.42	23.64	24.84	22.27				51.36	29.84		31.23		49.02	27.27	38.31		16.01	29.80	19.25	18.23			88.39	--	36.86		69.03	51.96		100.0	47.85	81.05	48.22					
6/25/1997	--	20.23	--	19.01	25.27	24.11	25.38	23.06				53.77	28.94	33.15	32.09		51.10	30.10			15.77	33.07	20.32	20.16			88.41	--	38.67		85.99	53.52		131.6	50.30	90.50	50.54					
7/23/1997	--		--														54.94	30.21										--														
10/3/1997	--	21.47	--	21.12	26.99	25.15	26.34	23.97				51.66	28.94		32.95		50.97	28.70				38.66	21.48	21.99			88.35	--	43.85		79.50	56.71		98.1	54.31	71.76	53.07		77.15			
1/28/1998	--	22.25	--	22.30	27.95	25.35	26.58	24.38					24.87		19.35	28.75	39.77	32.36	28.12	33.29	15.85	23.85	23.23	23.62			64.14	--	40.97		60.89	52.19		74.3	45.25	55.22	44.20					
3/3/1998	--	19.44	--	17.80	23.60	22.20	23.31	21.67		26.54	41.02	40.83	21.83	30.37	16.59	23.87	27.30	31.05	14.16	24.12	6.46	12.19	20.15	19.74	37.80		59.23	--	31.51		51.97	39.66		68.8	29.13	43.18	32.28		45.88			
6/4/1998	--	20.51	--	16.56	24.06	23.30	24.45	22.32		27.91	39.36	39.64	25.36		22.18	33.96	32.58	30.93	16.14	22.67	11.86	21.23	20.79	20.28	44.13		94.50	--	30.17		51.33	38.84		69.0	36.79	49.40	35.42					
8/31/1998	--	20.33	--	18.92	25.01	23.85	25.04	22.64				48.06	27.05		31.89		44.38	30.22	27.32	33.69	19.55	27.96	20.64	20.35			89.06	--	36.79	84.01	65.60	47.32		85.0	44.46	65.03	44.24					
12/11/1998	--	23.05	--	21.66	27.57	25.52	26.75	24.22				48.26	26.30		30.88		41.74	36.23	21.76	38.29	16.19	26.93	24.34	23.52			59.98	--	38.70	71.81	56.19	47.26		70.4	49.56	42.75	40.81	58.23	49.53			
3/11/1999	--	22.94	--	22.58	28.05	25.55	26.75	24.56		27.69	43.39	43.47	24.10	39.32	20.31	30.96	32.88		15.87	27.59	12.29	19.65	24.55	24.16	43.26		54.17	--	35.17	63.55	51.13	42.37		64.6	36.67	47.41	36.21	54.77				
4/29/1999	--		--														37.45	27.09										--														
6/15/1999	--	20.58	--	19.35	25.66	24.34	25.51	23.23				48.33	26.96	31.57	28.76		46.02	28.80	32.43	34.69		28.35	20.79	20.52			69.67	--	35.35	116.75	63.16	47.71		143.6	44.89	80.74	37.62	70.24	66.80			
9/13/1999	--	22.80	--	20.70	26.74	25.10	26.27	24.09					27.24		32.66			29.73		38.00		35.86	21.82	22.45			69.88	--	40.49	92.20	69.06	54.14		106.0	52.47	72.33	46.94	78.33				
12/10/1999	--	24.65	--	21.88	27.82	25.86	27.04	24.65					27.48		31.95		48.68	36.30	29.62		17.48	33.35	23.19	23.45			62.25	--	40.89	74.35	60.44	51.47		93.1	48.61	57.01	43.47	66.78	61.14			
3/22/2000	--	23.97	--	22.28	28.09	25.78	26.98	24.69		28.73		46.80	25.91		21.10	36.26	37.03	34.38	20.17	34.71	11.94	23.17	23.49	23.57	47.02		56.97	--	37.66	70.77	54.49	45.75		86.4	39.37	49.18	40.99	57.77				
6/26/2000	--	21.95	--	17.56	23.58	21.30	23.87	21.18					27.08		31.01		48.10	29.17	33.91			27.31	20.69	19.55			77.69	--	37.60	113.15	63.39	49.85		103.4	44.55	80.63	43.35	70.94	63.04			
9/27/2000	--	23.91	--	20.10	26.15	24.68	25.83	23.59				47.80	27.96		33.29			30.14	38.42			32.84	22.13	22.06			68.23	--	42.09	95.72	67.70	54.85		100.7	49.21	67.54	46.68	77.40				
12/8/2000	--	24.80	--	21.64	27.56	25.53	26.75	24.30					28.22		32.97		49.39		30.27			31.71	23.19	23.24			61.29	--	41.15	72.89	60.81	52.40		92.6	47.70	56.94	43.00	69.09				
3/29/2001	--	24.92	--	22.30	28.20	26.07	27.29	24.90		30.38			27.35		23.70		40.74	35.34	21.74	37.26		27.19	23.90	23.93			57.74	--	37.59	76.10	55.47	46.94		88.0	42.81	50.82	38.51	76.71				
7/2/2001	--	23.91	--	19.74	26.06	24.54	25.70	23.56					27.92		31.10		50.67	30.01	38.50			29.47	21.64	21.43			73.66	--		98.50	65.84	51.31		107.4	46.07	83.07	43.57	77.17	71.84			
9/7/2001	--	23.86	--	20.05	25.97	24.51	25.68	23.47					28.06		32.97		53.45	30.41	38.05			30.24	21.90	21.82			74.82	--	41.08	107.48	68.94	53.96		108.8	47.90	68.95	46.25	74.40	69.58	71.49		
12/6/2001	--	24.02	--	21.76	27.21	25.28	26.50	24.06					26.48		29.52		45.81	35.39	28.42			28.09	23.21	23.28			66.42	--	42.21	77.29	62.87	52.51		97.9	46.09	56.75	44.07	70.94	63.69	135.79		
3/21/2002	--	24.44	--	21.84	27.25	25.61	26.81	24.42		31.80		47.86	27.66		24.99		41.20		21.12	38.16		27.72	23.88	23.55			59.89	--	37.84	76.45	55.80	46.82		90.3	42.65	49.79	39.64	61.46	49.50	53.66		
6/6/2002	--	24.42	--	19.71	25.89	24.63	25.77	23.60					28.00		30.73		47.56	29.40	31.84	38.34		27.41	22.38	21.99			67.45	--	37.70	93.70	63.06	49.92		103.7	44.55	82.58	41.24	75.56	66.66	75.31		
9/9/2002	--	24.09	--	19.70	25.54	24.17	25.27	23.13					27.95		33.54			30.50				31.13	21.82	21.72			84.55	--	42.02	112.64	76.16	55.98		116.8	48.70	74.44	47.72	81.79	78.67	147.94		
11/25/2002	--	24.37	--	21.65	27.26	25.29	26.42	24.12					27.72		31.60		50.63		32.29			31.48	23.16	23.14			72.58	--	43.22	93.37	68.35	54.60		105.3	48.62	60.02	45.78	73.01	61.32	67.49		
3/24/2003	--	24.09	--	21.73	27.32	25.27	26.48	24.07		30.96		47.08	26.70		21.72	35.17	38.45	34.61	20.30	35.40		25.65	23.24	23.27			61.14	--	36.88	76.10	56.35	46.26		92.6	41.51	49.26	37.38	63.08	49.68	55.50		
6/10/2003	--	24.40	--	20.69	26.13	24.82	25.95	23.84				47.16	27.44	37.68	30.18		44.14	28.38	27.52	38.33		26.46	22.71	23.18			81.63	--	34.58	108.59	59.48	46.40		102.5	42.56	76.87	36.73	72.32	64.40	74.00		
9/2/2003	--	20.79	--	18.43	24.10	23.17	24.21	22.12					27.87		32.07		52.37	31.89	34.60			31.02	21.03	20.44			78.12	--	40.05	110.57	70.73	52.94		109.9	48.77	68.72	42.02	79.02	72.34	147.19		
12/8/2003	--		--	21.49	26.91	24.95	26.18	23.69					27.52		32.09		48.51		28.12			30.59	22.56	22.63			67.54	--	41.13	89.69	64.21	51.75		101.8	47.13	56.37	42.10	71.17	63.41	138.79		
3/5/2004	--	21.36	--	21.77	26.58	24.26	25.47	23.33		26.97		44.98	23.06		18.65	25.69	31.54	33.30	17.57	27.48		17.25	22.41	22.78	43.00		59.76	--	35.02	78.51	54.85	43.78		92.1	35.03	46.91	33.84	58.69	46.49	52.06		
6/21/2004	--	20.97	--	18.65	25.38	24.11	25.32	22.94					26.92		30.77		50.54	30.28	37.57			29.96	20.54	20.43			83.50	--	37.96	112.54	70.90	51.24		128.9	49.02	84.62	41.62	82.02	78.44	150.64		
9/20/2004	--	23.58	--	20.06	25.66	24.12	25.42	22.98					27.36		32.96		53.93	34.63				30.19	21.73	21.52			87.35	--	42.52	111.41	79.38	55.43		124.0	48.90	68.59	47.60	81.33	68.22	76.26		
12/22/2004	--		--	22.19	27.71	25.57	26.78	24.28					26.89		31.19		48.53		28.99			30.33	22.97	23.33			70.44	--	41.51	87.03	63.86	52.71		103.2	47.14	55.98	42.40	69.32	56.67	61.28		
4/1/2005	--	23.74	--	22.18	27.83	25.61	26.85	24.43				46.93	25.00		20.14	33.55	38.00	35.47	19.79	33.08		23.07	23.15	23.44	47.42		61.99	--	36.54	79.53	57.19	45.75		95.1	40.79	48.51	37.18	61.70	54.81	127.33		
6/20/2005	--	20.75	--	18.87	24.55	23.58	24.72	22.49		31.34		49.03	27.66		30.85		47.13	29.30				28.25	21.09	20.92			77.07	--	34.59	112.02	65.19	48.53		112.2	43.43	77.37	42.27	76.71	67.37	72.57		
9/19/2005	--	21.72	--	18.95	24.60	23.44	24.58	22.38				49.00	28.10		32.96		53.36	30.65		38.20		33.75	20.98	20.64			91.11	--	39.93	108.56	74.50	53.12		124.7	50.62	68.44	43.77	85.95	68.28	77.88		
12/15/2005	--	22.00	--	21.71	27.21	25.19	26.42	23.90	--				28.05		32.71		50.23			33.41		33.04	22.74	22.92			70.91	--	40.75	86.89	65.98	52.80		106.0	49.09	57.17	41.77	72.09	60.42	70.90		
4/28/2006	--	20.12	--	20.03	25.22	23.17	24.48	22.34	--	23.68	37.90	38.18	23.38	36.08	12.69	25.10	27.58	33.47	12.46	24.06		16.16	21.22	21.25	38.50		57.45	--	29.30	79.97	52.04	36.98		92.6	30.95	41.42	30.22	55.23	44.07	56.46		
6/16/2006	--	20.53	--	17.02	24.17	23.39	24.49	22.14	--	26.60		42.94	27.01		25.08	40.59	39.62	28.63	24.45	38.48		23.23	20.60	20.27			72.58	--	29.83	120.16	62.69	42.40		123.5	35.98	65.16	32.95	67.47	57.87	67.25		
9/8/2006	--	20.62	--	17.11	23.14	22.41	23.52	21.55	--			--	27.47		30.94		46.16	30.82				25.42	21.05	20.36			80.32	--	36.34	92.29	69.74	49.15		114.1	23.23	62.88	39.64	71.40	62.60	75.25		
11/30/2006	--	21.33	--	20.62	26.30	24.45	25.67	23.31	--			--	27.36		32.44		44.94		24.11			27.00	22.15	22.19			80.01	--	38.18	90.50	63.56	48.76		106.9	43.29	51.99	38.79	67.47	60.40	143.08		
3/21/2007	--	22.69	--	22.37	27.84	25.99	27.18	24.85	--			--	27.22		24.39		41.91		22.10	36.73		25.51	23.61	23.80			60.80	--	37.42	90.06	60.88	46.93		108.3	41.70	51.10	37.08	65.16	50.90	56.95		
6/8/2007	--	22.58	--	19.96	27.61	26.22	27.36	25.88	--			--	27.53		32.04		48.90	29.28				28.40	22.45	23.03			94.74	--	38.80	116.06	72.66	51.90		123.5	47.66	85.63	37.45	82.25	70.46	75.75		
9/4/2007	--	21.59	--	19.19	24.75	24.10	25.10	23.85	--			--	28.00		33.08		54.31	33.04				27.94	21.71	22.00			87.75	--	42.64	99.45	82.42	55.66		136.5	45.71	76.41	43.84	87.80	79.14	143.85		
12/21/2007	--	22.53	--	21.26	26.94	25.44	26.58	24.85	--			--	27.59		32.59		49.66			38.28		28.04	23.36	23.50			70.31	--	41.56	82.20	68.43	53.41		109.0	46.09	57.46	40.99	72.32	58.64	63.96		
3/13/2008	--	21.63	--	20.57	26.42	24.91	26.07	24.22	--		50.06	--	26.68		22.38	38.93	41.99	36.00	21.88			24.81	22.48	22.72			62.52	--	35.75	87.42	60.32	46.07		104.4	40.48	50.67	33.47	46.93	33.47	55.24		
7/1/2008	--	22.82	--	16.83	23.56	23.64	24.62	24.54	--			--	28.05		31.76		51.97	30.30		37.91		32.02	23.29	23.03				--	38.94		80.85	53.37	72.24		50.44	88.42	34.07	72.75	78.89	84.98		
9/10/2008	--	22.36	--	18.32	24.43	24.43	25.42	25.19	--			--	28.21		33.07		55.41	31.43				30.45	22.22	22.87			97.70	--	41.76	99.73	83.06	55.75	74.49	135.8	50.33	78.65	41.37	72.56		83.74		
12/1/2008	--	23.09	--	20.34	26.22	25.37	26.44	25.44	--			--	28.35		32.77		54.57			37.95		31.69	23.94	24.43			75.76	--	42.23	99.03	72.22	55.47	66.13	160.3	50.81	62.37	41.93		63.98	68.73		
3/17/2009	--	22.55	--	21.56	27.24	25.66	26.83	25.10	--			--	27.00		23.64		47.14	36.20				26.40	23.61	24.12			68.40	--	39.08	89.00	63.93	50.20	58.60	82.7	44.39	54.07	35.40	51.03	54.79	59.57		
6/16/2009	--	24.08	--	20.22	27.96	25.80	27.02	26.77	--			--	28.22		31.74			29.13		33.74		42.95	24.30	23.75				--	40.40	166.50	92.63	54.99	78.17	155.7	60.07	99.57	46.06		93.88	152.44		
9/14/2009	--	24.30	--	20.39	26.69	25.92	26.96	27.52	--			--	28.48		33.93			34.38		37.78		47.57	24.84	23.87		44.38	114.78	--	43.70	133.77	107.68	57.35	88.09	159.8	62.85	96.75	50.82		96.29	101.91		
12/7/2009	--	24.60	--		27.51	26.21	27.31	27.07	--			--	28.43		32.69								26.01	24.58		48.28	87.10	--	44.91	112.62	86.20	58.30	79.19	102.1		77.05	49.90		80.40	84.21		
3/22/2010	--	22.77	--	21.20	27.51	25.96	27.10	25.81	--	26.47		--	27.31		23.85	39.65	47.88				--	25.54	23.83	23.54		42.98	76.86	--	40.50	109.24	70.71	52.78	66.15	182.4	49.36	60.14	38.89	56.69	61.11	66.32		
6/22/2010	--	23.18	--	13.37	24.50	24.89	25.94	26.43	--			--	28.53		30.65		46.85	29.92				26.66	22.14	19.43		41.45	88.40	--	37.37	107.00	83.03	51.58	71.91	145.0	48.22	88.72	38.11	66.61	75.83	83.17		
9/13/2010	--	22.58	--	16.97	22.90	23.37	24.37	25.01	--			--	29.08		32.89		52.97	30.04				26.83	21.50	21.25		45.24	99.97	--	41.00	105.46	89.86	55.77	78.54	183.6	44.04	78.46	44.09	75.04	83.16	130.95		

Table 1
Depth-to-Water Measurements – Teichert Aggregates, Woodland Properties

(all measurements in Feet below reference point)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
12/1/2010	--	23.12	--	19.51	25.28	24.80	25.88	25.08	--			--	29.14		33.03		54.88		22.09		--	32.20	22.78	22.56		46.38	84.84	--	42.72	108.42	84.75	56.68	71.20	166.1	53.53	66.30	45.78		68.63	74.32		
4/5/2011	--	21.24	--	18.51	24.42	23.45	24.57	23.79	--	23.69		--	23.49		18.92	25.69	31.98	34.93	20.03	27.07	--	16.83	21.56	21.03	45.68	34.67	71.20	--	34.96	93.30	66.20	44.56	55.24	124.2	34.68	49.57	34.09	46.53	55.88	137.72		
6/16/2011	--	21.98	--	14.35	21.55	22.80	23.67	24.17	--			--	27.92		24.75		41.52	29.27	--	37.35	--	24.07	20.43	19.12		36.00	94.56	--	32.98	98.12	47.56	45.31	59.42	163.6	40.55	71.26	31.18		63.61	73.21		
9/12/2011	--	21.88	--	15.92	22.38	23.25	24.19	24.26	--			--	28.07		30.89		48.29	30.28	--		--	25.48	19.77	18.73		42.13	116.45	--	37.87	111.24	91.74	50.62	67.73	193.8	40.57	67.69	42.96		66.95	75.83		
12/6/2011	--	22.22	--	19.03	21.70	24.50	25.58	24.58	--			--	28.23		32.42		48.35	30.80	--		--	26.18	20.91	20.89		43.87	86.39	--	40.65	111.08	77.74	51.00	60.42	172.5	44.45	55.76	41.89	53.99	62.52	137.51		
3/29/2012	--	22.42	--	21.03	26.45	25.27	26.44	24.93	--			--	26.03		22.86		41.58	32.85	--	34.00	--	23.72	21.78	22.15		41.82	79.30	--	39.68	89.84	70.59	48.87	56.12	168.8	42.84	53.01	39.94	49.02	53.02	58.57		
8/3/2012	--	21.63	--	16.01	23.15	23.53	24.53	24.43	--			--	28.30		32.27		52.20		--		--	31.43	19.35	18.16		45.74	112.70	--	40.97	119.98	97.19	54.31	77.90	193.1	46.53	87.13	45.30		80.75	89.16		
9/10/2012	--	21.60	--	16.48	23.25	23.69	24.69	24.76	--			--	28.61		35.13		54.75	31.06	--		--	28.96	19.32	18.45		47.25	111.40	--	42.22	112.19	97.51	56.78	78.30	191.9	49.06	79.80	46.02	75.58	85.03	146.50	79.70	80.40
1/25/2013	--	20.59	--	18.90	24.95	24.33	25.40	24.23	--			--	27.57		23.39		44.24		--		--	26.14	23.93	24.00		43.67	80.50	--	39.27	96.53	76.90	50.80	60.40	158.4	43.90	55.70	39.80	62.69		141.64	56.81	57.46
4/15/2013	--	22.20	--	19.45	25.63	25.05	26.11	25.17	--		--	--	28.27		26.85		42.97	30.31	--		--	26.80	24.49	24.93		42.42	93.80	--	38.68	112.67	--	49.05	59.90	176.2	44.87	62.50	40.38		59.16	68.90	64.03	63.07
7/12/2013	--	22.09	--	16.56	23.67	23.99	24.90	24.98	--		--	--	29.01		33.58		52.05	31.05	--		--	41.19	23.21	22.42		45.70	133.70	--	40.58	147.68	--	55.30	78.80	198.3	56.45	95.90	47.13		84.93	91.52	91.51	92.25
9/12/2013	--	21.92	--	17.25	23.85	24.02	24.98	24.99	--		--	--	29.10		33.24		53.59	32.01	--		--	32.28	23.21	22.70		46.55	132.90	--	41.50	141.36	--	57.05	81.10	199.1	54.00	83.63	47.68		82.40	89.50	85.02	84.33
12/16/2013	--	22.91	--	20.24	26.25	25.10	26.21	24.99	--		--	--	28.79		33.02		55.31		--		--	57.51	25.91	26.01		46.55	113.10	--	41.78	118.98	--	57.18	73.50	189.6		70.75	46.43	71.46	70.91	77.90	73.15	72.85
6/2/2014	--	24.14	--	21.73	27.85	26.47	27.52	26.93	--		--	--	29.38		34.37			35.02	--		--		27.84	27.68		46.39	>300	--	44.41	145.28	--	57.52	83.50	156.6		98.44	47.02	--	93.32	148.56	97.50	98.10
8/20/2014	--	24.89	--	21.59	27.89		27.65	27.35	--		--	--	31.03						--		--		29.20	28.30		49.86	83.12	--	48.83	126.80	--	60.51	105.10	197.7		118.11	54.38	--	113.90	119.70	119.07	119.85
10/6/2014	--	25.20	--	21.98	27.81		27.75	27.35	--		--	--	31.42					34.62	--		--		29.78	28.51		50.82	83.40	--	49.42	121.35	--	61.08	101.80			108.29	47.60	--	109.80	114.40	115.64	115.78
12/23/2014	--	22.53	--	22.46	27.64	25.00	26.28	24.39	--	25.11	--	--	25.93				48.74		--	34.68	--	27.75	27.74	27.81	20.56	48.83	87.09	--	45.15	132.55	--	58.85	91.90			92.21	47.99	--	92.34	96.08		95.89
2/6/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.40	
3/20/2015	--	24.15	--	22.27	26.24	26.22	27.37	25.65	--		--	--	28.27		31.57		53.41	31.61	--		--	37.95	28.36	27.93		45.86	83.90	--	43.38	109.48	--	56.94			54.23	74.52	46.46	--	71.87	77.93	75.69	76.33
7/20/2015	--	21.33	--	18.15	25.02	24.96	25.95	26.09	--		--	--	28.27		32.29		54.33		--		--	48.37	23.32	22.81		46.15	125.25	--	42.18	150	--	57.01	96.30			118.02	49.04	--	139.23			118.93
10/15/2015	--	22.27	--	19.33	25.79	24.94	26.08	25.60	--		--	--	29.47						--		--		25.10	25.00		47.53	136.32	--	45.20	169.03	--	59.43	97.54	199.1		106.00	49.46	--	109.2	--		
11/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104.09	104.57
2/9/2016	--	23.10	--	21.81	27.48	25.57	26.73	25.20	--		--	--	27.62		31.48		48.82		--		--	29.07	26.92	27.10		46.62	130.0	--	43.22	135.82	--	58.72	88.62	193.0	57.04	84.20	47.28	--	88.8	--		87.5
4/12/2016	--	22.87	--	22.04	27.28	25.30	26.41	25.21	--		--	--	27.61		24.65		44.90		--		--	25.71	26.75	26.98		43.98	114.80	--	41.18	125.23	--	55.49	76.75	188.45	51.56	75.00	45.54	--	76.72	--		76.39
6/22/2016	--	21.61	--	17.25	24.34	23.82	24.87	24.56	--		--	--	28.69		32.28		50.34	32.09	--		--	33.08	24.08	23.54		44.04	133.00	--	40.80	130.10	--	55.02	86.49	--	55.63	103.60	45.74	--	94.80	--		101.00
9/13/2016	--	20.93	--	16.21	23.08	23.43	24.39	24.29	--		--	--	28.91		33.93		54.93	34.08	--		--	30.84	22.15	21.11		45.78	96.50	--	42.54	115.00	--	57.76	94.02		54.91	98.75	49.07	--	100.80	--		
12/13/2016	--	21.78	--	19.46	25.49	24.54	25.64	24.56	--		--	--	27.61		33.09		52.36		--		--	31.42	24.83	25.07		43.48	123.50	--	41.12	137.25	--	57.89	84.10	191.91	56.36	95.32	47.90	--	87.00	--		
4/24/2017	--	20.41	--	16.89	22.67	21.98	23.62	22.04	--	--	--	--	26.39		23.14		36.67	30.88	--		--	21.24	22.58	23.12		32.44	95.00	--	31.76	109.10	--	40.37	57.71	183.83	37.93	51.40	36.00	--	144.60	--		53.00
7/20/2017	--	19.10	--	12.15	20.65	21.65	22.70	23.65	--		--	--	28.35		30.65		46.60	30.25	--		--	26.30	20.72	17.05		36.75	88.00	--	36.15	--	--	--	74.65	--	47.05	78.25	42.05	--	--	--		78.25
10/19/2017	--	21.42	--	16.85	23.14	23.41	24.41	24.20	--		--	--	29.14		33.50		54.65	29.86	--		--	34.16	22.86	22.88		43.45	83.00	--	39.73	--	--	54.71	75.20	--	51.10	68.20	46.29	--	--	--		70.30
12/12/2017	--	21.47	--	18.91	24.83	24.85	24.77	24.62	--		--	--	28.54		32.12		50.12		--		--	31.13	24.08	24.39		43.48	91.54	--	39.83	--	--	53.25	69.55	192.00	49.50	62.58	45.18	--	--	--		64.26
3/29/2018	--	21.51	--	20.96	26.51	26.28	25.13	25.04	--		--	--	27.94		30.73		45.59		--		--	28.09	25.30	25.89		43.50	100.07	--	39.93	111.33	--	51.78	63.89	186.14	47.90	56.95	44.07	--	143.43	--		58.21
7/18/2018	--	21.95	--	19.32	25.08	24.68	25.72	25.62	--		--	--	29.01		31.98		52.01	27.33	--		--	30.47	23.97	25.38		43.93	86.56	--	40.43	136.00	--	54.63	71.42	--	50.82	88.91	46.23	--	--	--		87.35
9/7/2018	--	21.52	--	18.83	24.78	24.03	25.16	25.35	--		--	--	28.63		32.08		52.86	28.52	--		--	31.65	23.32	24.06		45.82	99.52	--	41.55	174.65	--	56.52	79.77	195.96	51.44	79.24	47.68	--	--	--		80.10
1/29/2019	--	21.09	--	20.13	25.46	23.97	25.13	23.83	--		--	--	26.97		NM				--		--	25.69	23.41	24.00		44.00	112.53	--	38.84	121.34	--	52.22	65.56	186.00	44.16	57.52	43.72	--	65.49	--		59.44
4/14/2019	--	20.72	--	17.12	22.61	22.22	23.29	23.21	--	25.08	--	--	25.18		20.38	31.19	36.11		--	29.41	--	18.96	23.28	22.74	43.14	31.26	96.50	--	32.08	107.53	--	40.38	52.57	179.00	31.93	47.53	35.14	--	46.18	--		47.57
7/11/2019	--	22.24	--	17.67	24.13	24.11	25.12	25.26	--	27.25	--	--	27.22		30.69		42.68	28.52	--		--	25.78	24.46	24.40		33.61	91.54	--	33.53	105.77	--	43.22	62.31	197.00	43.35	^--	37.86	--	62.48	--		70.92
10/10/2019	--	22.33	--	17.79	24.07	24.00	25.10	24.85	--		--	--	28.14		33.25		50.94	28.87	--		--	31.32	24.16	24.17		38.02	134.14	--	37.81	149.31	--	48.90	65.23	197.7	46.19	^--	41.74	--	67.96	--		63.33
1/20/2020	--	22.35	--	20.24	25.85	24.85	24.52	24.68	--		--	--	28.41				46.45		--		--	28.31	24.87	25.38		38.72	92.33	--	38.24	111.37	--	48.42	58.38	180.37	44.68		40.18	--	52.38	--		54.35
3/30/2020	--	22.98	--	20.82	26.29	24.51	25.73	24.77	--		--	--	27.63		31.48		45.52	30.17	--		--	27.11	25.65	26.21		38.05	106.21	--	37.55	113.24	--	47.32	58.89	179.90	43.72		38.85	--	55.41	--		59.81
6/12/2020	--	21.68	--	18.84	24.92	24.37	25.43	25.01	--		--	--	27.93		31.95		49.26	28.35	--		--	26.61	23.52	22.89		37.61	105.23	--	37.92	121.73	--	48.34	67.88	181.75	42.46		42.75	--	69.15	--		77.83
9/15/2020	--	22.21	--	17.85	24.10	24.04	25.00	25.06	--		--	--	28.01		32.77		50.89	29.77	--		--	30.05	23.74	24.02		41.97	131.85	--	40.75	139.46	--		73.55	189.40	48.15		45.32	--	82.48	--		74.08

Table 2
Calculated Water Level Elevations – Teichert Aggregates, Woodland Properties

(all elevations in Feet, NAVD88)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
6/26/1986	95.72		107.33		101.97	99.52		98.32	89.71	89.19	73.24		82.29	81.64	70.48			86.25	53.04	75.48	61.94	58.93							86.91	35.86													
7/21/1986	90.29				95.04	94.29		93.30	81.65				77.37	74.24	72.74			79.61	42.73	68.71		48.86							79.86	25.46													
8/18/1986	89.22				94.39	93.76		92.91					77.31	66.58	64.73	54.96		75.45	42.99	67.18		47.53							82.23	33.01													
9/18/1986	89.19		100.92		94.02	93.49		92.74					77.31	65.54	64.53			74.46	43.42	68.92	39.69	48.03							75.97	45.24													
10/20/1986						93.23		92.74					77.25		64.48			73.00	44.83	70.77	42.08	47.97							75.24	48.44													
11/14/1986	89.04		100.95		93.64	93.14		92.54					76.96		64.19				45.62	70.63	43.02	48.04							74.91	50.65													
12/16/1986	89.02		101.00		93.79	92.87		92.53					77.05		64.13				46.21	68.16	43.84	48.27							75.25	58.04													
1/16/1987	89.12		101.20		93.89	93.20		92.61					77.19	64.96	64.32				47.21		44.88	48.33							75.89	60.67													
2/3/1987	89.12		101.03		93.89	93.18		92.64					77.32		64.46				47.04		44.73	48.64							76.03	59.96													
2/18/1987	89.12		101.03		93.89	92.72		92.49					77.52	64.96	65.19				48.52	70.85	52.36	51.39							75.89	60.84													
3/13/1987	89.12		100.85		93.54	93.72		92.39					78.24		65.45				50.59	71.29	52.19	53.19							76.31	62.41													
4/17/1987		85.29					92.15	91.27				63.30	76.47		64.47		53.36	79.67	49.66	70.96	48.72	51.57					54.36	52.52	77.06	35.98	56.81	62.37			45.95			21.13				
5/19/1987		86.35			93.79	92.47	93.00	91.79				61.66	77.04		64.84		49.35	79.05	40.32	68.50		48.17					46.07	44.58	76.82	30.40		60.53			41.75			16.04				
6/15/1987		86.61			95.08	93.84	94.04	93.82				59.29	76.81		64.65		46.49	80.29		66.68		46.45					54.58	53.07	74.29	24.55		58.13			40.56							
7/17/1987		86.44			95.87		93.90	92.85				56.96	76.15		63.64		44.01	76.22		69.82		41.42					51.39	49.98				55.94			37.95							
8/20/1987		86.89			94.87	94.06	94.31	93.23				55.93	76.72		64.14		43.99	76.65		70.41		42.08					52.08	51.24				55.05			32.73							
9/21/1987		86.62			94.55	93.76	93.91	92.89				55.31					44.34	74.75		69.34		44.36					56.42	55.48				54.27										
10/14/1987		86.57			94.06	93.55	93.70	92.79				55.08	76.77		64.23		45.24			71.05		44.28					58.45	57.34				54.05			37.74							
11/23/1987		86.39			94.35	93.43	93.56	92.80				55.82	76.74	66.29	64.19		45.49			69.82		45.00					62.14	60.93	71.99	52.65		54.86			38.82							
12/15/1987		86.50	100.83		93.77	93.40	93.51	92.75				56.87	77.19		64.97		46.53		40.52	67.60		47.91					63.77	62.52	72.93	54.48		55.96			40.69							
1/18/1988	89.26	87.83	100.86		93.71	93.47	93.57	93.14				59.62	79.25		74.91		49.57	75.42	45.65		52.51	54.64					66.31	64.97	74.68	58.16	57.24	58.86			43.89			38.25				
2/16/1988	89.49	86.77	100.87		93.69	93.25	93.36	92.64				62.01	76.98		66.03		50.80		48.30		44.24	51.34					67.68	66.30	76.04	56.86	59.73	61.35			44.61			31.98				
3/15/1988		86.54			94.44		93.19	92.45				63.33	77.04		65.88		51.89		49.22	70.79	44.55	50.39					68.45	68.52			60.27	62.52			44.45			26.21				
4/15/1988	89.41	87.31	100.87		93.65	92.96	93.08	92.20		80.89		62.75	77.08		65.67		51.16	79.72	41.67	72.16		46.19					64.90	63.64	78.13	49.88		61.68			40.93							
5/17/1988	89.42	86.61	100.86		93.65	93.29	92.99	92.10				61.56	76.44		65.10		49.28	75.54	40.89	69.78		45.74					62.39	61.19	76.58	44.28		60.69			39.91							
6/30/1988	89.35	87.25	101.29		95.95	94.47	94.65	93.47				58.73	76.86		64.52		45.36	77.23		68.22		42.36					48.80	46.23	74.52	36.14		57.62			39.78			7.37				
7/20/1988	89.33	87.24	100.84		95.95	94.60	94.78	93.66				57.44	77.02		64.47		44.55	77.16		65.16		40.41					49.21	47.03	73.12	16.39		56.37			34.52							
8/16/1988	89.32	87.23	100.84		95.43	94.39	94.54	93.60				56.69	77.01		64.31		44.82	76.19		71.10		40.65					52.83	51.46	72.24	28.71		55.69			35.86							
9/20/1988	89.29	87.92	100.84		94.42	93.88	94.01	93.09				56.54	77.00		64.22		44.27	76.50		69.97		40.23					42.99	41.58	71.77	28.81	39.22	55.66										
10/21/1988	89.28	86.57	100.84		94.00	94.54	93.67	92.79				55.69	76.95		64.06		44.51			71.89		42.46					57.28	55.96	71.77	43.08	43.38	54.70			30.81							
11/11/1988	89.26	86.35	100.83		93.83	93.41	93.54	92.76				55.87	77.05		64.01		44.64			71.57		44.20					58.84	57.54	72.18	46.57	44.81	54.89			33.66							
12/16/1988	89.22	86.16	100.83		93.70	94.25	93.37	92.65				56.77	77.30		63.99		44.52			64.48		44.65					61.86	60.65	73.02	50.96	50.75	55.79			38.75							
1/16/1989	89.27	86.39	100.83		93.64	93.15	93.26	92.56				57.69	77.14		64.25		44.62		39.01			46.24					63.95	62.71	73.71	54.92		56.72			39.28			35.44				
2/23/1989	89.24	86.09	100.83		93.61	92.95	93.08	92.38				58.08	76.99		64.00		45.09		39.48	62.55		45.59					65.55	64.25	74.23	56.95	47.22	57.10			39.33							
3/28/1989	89.24	86.64	100.83		93.57	92.93	93.04	92.30				59.41	77.46		65.25		48.78		44.36	66.23		52.25					65.81	64.57	74.79	57.18	56.26	58.62			42.91							
4/18/1989	89.25	86.01	100.82		93.55	92.80	92.87	92.12				60.03	76.97		64.70		49.07	78.08	42.12	66.04		49.71					55.43	53.50	74.88	42.83	53.69	58.73			42.27			20.55				
5/23/1989	89.25	86.26	100.81		93.63	92.88	93.04	95.00				57.78	76.98		64.37		45.71	79.09		64.12		45.38					41.16	41.29	73.04	21.82		56.53			40.44							
6/29/1989	89.28	86.82	101.10		93.69	93.31	93.47	92.54				55.48	76.70		64.00		45.24	76.92		65.83		39.40					48.02	47.05	70.25		34.12	54.46			38.39							
8/8/1989		86.96	100.83		93.93	93.38	93.52	92.58				54.51	76.64		63.93		43.55	75.74		69.45		25.38					46.45	45.81	68.66	18.28		53.43			35.55							
9/25/1989		86.58	100.82		93.87	93.36	93.49	92.70				54.12	76.89		63.96		43.22	71.31		64.75		38.82					49.46	48.72	68.47		38.36	52.99										
10/16/1989		86.82	100.82		93.82	93.34	93.47	92.72				54.17	76.75		63.87		42.24					39.99					52.26	51.45	69.23		41.61	53.15										
11/28/1989		86.26	100.82		93.74	93.23	93.34	92.74				54.71	76.85		64.21		41.21					46.78					55.29	54.36	70.63	47.44	46.26	53.58			36.26							
1/5/1990		86.41	100.81		93.67	93.08	93.18	92.44				55.26	76.85		64.48		41.02					48.18					58.00	57.11	71.57	49.56	49.04	54.15			39.16			26.99				
2/14/1990		86.60	100.79		93.67	93.00	93.09	91.49				56.41	77.25		65.31		43.96					50.17					60.60	59.50	72.49	51.79	51.82	55.40			40.86							
3/14/1990		86.67	100.81		93.64	92.99	93.03	92.44				57.65	77.20		65.34		45.75		38.66		47.01	50.54					61.87	60.90	73.18	53.59	53.16	56.66			41.64							
4/16/1990		86.40	100.85		93.62	92.99	93.08	92.14				56.92	76.78	65.14	64.24		42.50	78.11				40.04					32.68		73.37	6.86	36.30	55.79			37.33							
5/23/1990		86.64	100.91		93.62	92.62	92.69	91.82				55.23	76.81		64.62		38.74	77.50			51.91						32.34	29.75	70.91	7.38	12.30	54.15						-27.27				
6/15/1990		86.83	100.85		93.61	92.59	92.72	91.67				54.82	76.65		64.49			77.20			52.12						32.69		70.18	7.51	-7.29	53.74						-26.16				
7/18/1990		86.89	100.85		93.60	93.13	93.31	92.18				54.26	76.60		62.62			75.80									32.88		69.02	2.53	-15.42	53.19						-26.55				
8/21/1990		86.89	100.84		94.17	93.84	93.90	93.32				53.75	76.31		61.67			75.74									33.43		67.75	6.57	-1.94	52.70						-14.06				
9/24/1990		86.54	100.85		93.85	93.34	93.40	92.48				53.63	75.83		61.29						53.29						34.48		67.62	3.28	13.05	52.47						-34.27				
10/24/1990		86.23	100.85		93.70	93.03	93.16	92.20				53.78	75.84		61.26						53.58						32.90		67.37	9.04		52.37						-27.57				
11/26/1990		86.22	100.84		93.70	92.99	93.02	92.22				53.67	75.81		61.26						52.68						33.43		68.32	22.28	30.84	52.59						-35.83				
12/14/1990		86.23	100.84		93.64	92.87	92.95	92.20				53.84	76.34		61.26						52.76						35.41		68.58	26.46	33.39	52.75						-26.99				
1/28/1991		86.22	100.84		93.62	92.78	92.84	92.21					76.94		61.27												33.43		69.43	24.59	10.68	53.09						6.47				
2/19/1991		86.55	100.84		93.57	92.75	92.84	92.12				54.28	76.88		63.79			78.24									32.91		69.18	19.75	29.59	53.17						-26.49				
3/19/1991		87.04	100.84		93.60	93.18	93.14	92.51				54.59	78.02		73.88		41.44	74.24			55.92	45.55					36.81		69.50	28.62	36.12	53.57						-26.07				
4/22/1991		86.60	100.84		93.65	92.96	93.05	92.33				55.05	77.02		64.78		43.16	78.78			54.80	41.99					33.36		70.22	18.66	30.40	54.07				3.84		4.73				
5/30/1991		87.19	100.84		93.64	93.04	93.16	92.35				55.31	77.19		64.53			78.67			53.40	31.89					32.39		71.14	7.11	6.01	54.15				-17.71		-26.65				
7/2/1991		89.21	100.95		94.82	94.09	94.27	93.17				55.55	77.20		64.70		46.29	77.15			54.71	38.18					33.62		70.42	6.66	-11.71	54.49				-29.77		-26.48				
7/31/1991		90.32	100.98		94.99	94.19	94.33	93.50				54.77	77.59		65.08		41.98	77.31			54.43	31.71					33.84		68.96	6.01	-20.73	53.78	-25.69			-33.95	33.36	-36.64				

Table 2
Calculated Water Level Elevations – Teichert Aggregates, Woodland Properties

(all elevations in Feet, NAVD88)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
8/28/1991		90.18	101.28		94.60	93.97	94.11	93.41				53.98	76.79		63.23		39.87	75.73			54.17						32.63		67.50	4.73	-16.34	52.87	-13.49			-28.46	42.58		-26.96			
9/25/1991		89.34	100.88		94.30	93.72	93.84	93.09				53.50	77.29		63.27	65.52	39.67	75.94			53.31	36.04					32.80		66.82	-1.19	-8.20	52.50	-10.95			-16.79	45.17		-28.42			
10/29/1991		87.31	100.86		93.85	93.43	93.55	92.91				53.28	76.14		62.05						52.30	33.72					32.43		66.50	14.30	25.60	52.27	-10.26			-7.17	45.26		-27.33			
11/26/1991		87.02	100.89		93.85	93.26	93.38	92.80				53.35	76.35		61.24												32.40		67.05	14.18	29.33	52.31	-8.64			-2.29	47.58		-26.47			
12/19/1991		86.76	100.88		93.79	93.17	93.26	92.72				53.58	76.15		61.24												33.45		67.42	22.03	32.40	52.43	-7.72			0.76	47.92		-26.02			
1/20/1992		86.64	101.26		93.74	93.09	93.19	92.52				53.83	77.16		64.48						41.63	30.57					37.88		67.92	25.96	36.98	52.80	-6.33	25.77		4.64	50.86		8.58			
2/25/1992		87.50	101.96		93.63	93.34	93.43	92.71				54.53	77.95		67.32		43.51	70.92			55.09	49.14					42.12		69.05	26.42	39.30	53.46	-2.06	29.45		8.97	54.52		-25.92			
3/19/1992		87.23	102.27		93.62	93.25	93.34	92.64				54.85	77.90		66.25		45.75				54.25	52.00					44.29		69.73	34.28	40.80	53.81	0.83	31.32	38.62	13.72	56.16		-26.00			
4/30/1992		86.91	101.89		93.62	93.41	94.95	92.59				54.78	77.02		65.00		45.95	77.68			52.17	40.19							70.16	-3.84	1.67	53.71	-17.07	-74.16	37.10	1.18	44.73		-18.00			
5/22/1992		87.55			93.72	93.56	93.71	93.13				55.31	76.95		64.77		43.57	78.09				36.74							70.84	-32.72	-8.39	54.11	-15.80	-68.62		-14.57	37.95		-26.25			
6/26/1992		90.87	103.03		95.23	94.42	94.53	93.84				54.83	77.55		65.15		43.51	77.11									32.87		69.64		-12.18	53.81	-18.34	-88.02		-28.99	32.43		-36.92			
7/22/1992		91.07	102.39		94.66	94.16	94.17	93.40				54.32	76.90		63.68		39.90	76.25				34.52					32.95		69.07	-33.87	-12.22	53.37	-18.57	-34.43		-34.35	32.63		-28.19			
8/21/1992		90.37	103.10		94.24	93.73	93.85	93.14				53.72	77.06		63.63			74.51									32.46		67.15	45.13	-9.18	52.62	-16.50	-19.18		-30.03	32.17		-32.98			
9/22/1992		87.35	103.03		93.87	93.35	93.49	92.68				53.18	76.50		61.36												32.58		66.83		12.19	52.19	-15.57	-10.87		-20.87	39.51		-29.33			
10/21/1992		86.93	103.03		93.75	93.07	93.18	92.42				53.11	77.48		62.71												32.38		66.93	59.11	18.11	52.10	-15.11	-4.86		-13.07	38.15		-28.12			
11/24/1992		86.84	103.74	96.14	93.68	93.04	93.14	92.44				53.38	76.33		63.13								90.13	92.29			32.74		67.48	64.50	27.10	52.38	-13.26	4.61		-5.44	45.79		-26.92			
12/15/1992		87.08		96.01	93.66	93.34	93.43	92.70				53.58	77.92		65.46						53.11	41.27	90.21	92.18					67.91	68.78	30.28	52.59	-11.18			-1.83	48.48		-28.90			
1/25/1993		91.44	103.19	96.62	93.71	94.48	94.56	93.68		81.74		55.81	80.46		75.75	70.13	51.55	74.41	45.53	68.03	56.76	61.29	93.03	93.37			38.72		72.10	78.25	36.88	54.98	-5.18	17.32	42.15	8.99	55.79		14.82			
2/25/1993		92.01		98.45	94.98	95.13	95.21	94.35		82.42		57.71	80.97		76.48	71.65	57.28	75.45	37.24	69.03	57.30	64.47	93.75	94.47	71.67		44.53		75.12	79.63	42.16	56.83	2.91	23.44	45.73	20.51	58.81		24.65			
3/29/1993		91.02		99.48	96.06	95.00	95.14	94.35				60.05	77.21		72.77	56.31	57.07	72.07	42.84		53.77	59.51	93.55	95.24			48.86		76.36	84.48	47.10	59.08	9.84	27.94	45.69	28.50	60.59		32.11			
4/29/1993		90.49		98.98	95.18	94.46	94.59	93.92				60.55	76.80		66.38	55.02	54.75	77.35	43.62		53.11	56.07	93.64	94.70			40.80		76.81	81.71	49.13	59.40	-153.94	30.02	44.59	24.57	61.06		-28.65			
5/25/1993		90.93		100.61	95.80	94.82	94.85	94.12				59.46	76.73		65.78		59.75	76.78			52.18	54.42	94.51	95.94			31.98		75.50	67.39	13.02	58.33	1.52	3.46	42.36	9.09	49.70		-26.86			
6/29/1993		91.22		100.23	96.46	95.23	95.35	94.49				57.58	76.68		66.27		49.52	76.60			53.20	53.25	94.71	96.20			32.05		74.08		9.41	56.50	-3.33	-4.28	41.34	-1.68	48.47		-26.62			
7/27/1993		91.08		99.75	96.17	94.90	95.04	94.24				56.74	76.69		65.96		46.54	75.39			52.15	51.48	94.29	95.55			1.42		73.01		22.40	55.67	0.60	-58.68	39.88	-3.71	43.88		-26.63			
8/31/1993		90.72		97.79	95.30	94.47	94.62	93.77				55.65	76.54		64.15		44.37	74.51			52.82	48.01	93.83	94.79			13.53		71.58		25.00	54.61	0.83	1.38	38.96	5.54	34.81		-26.70			
9/28/1993		90.26		98.15	94.77	94.30	94.31	93.50				55.09	76.54		64.13		44.96	75.67			52.44	46.42	93.15	94.30			32.98		70.78		28.18	54.00	3.14	7.15	38.95	10.50	36.04		-27.48			
10/28/1993		89.59		97.60	94.38	93.94	94.06	93.41				54.96	76.62		64.21		44.57	70.05			52.33	47.30	92.15	93.68			37.39		71.13		34.20	53.87	4.99	14.20	38.98	17.34	50.04		-26.37			
11/24/1993		88.12		97.15	93.98	93.79	93.89	93.33				55.14	76.46		64.20		44.07					47.37	91.46	93.18			40.58		71.68		37.49	54.05	5.91	18.24	39.52	21.18	53.24		-26.48			
12/16/1993		87.87		96.82	93.88	93.78	93.85	93.18				55.50	76.77		64.95		45.63				52.27	49.82	91.04	92.85			45.11		72.21		41.04	54.43	7.53	22.17	40.47	23.80	55.15		-27.89			
1/19/1994		87.45		96.40	93.81	93.58	93.67	93.12				56.18	76.39		64.58		46.02					48.58	90.45	92.49			48.93		72.88		44.43	55.13	10.76	26.56	40.79	25.56	56.52					
2/15/1994		87.41		96.16	93.80	93.64	93.74	93.11				56.84	76.80		65.40		48.47		38.36		52.46	52.70	90.44	92.33			51.18		73.45		46.28	55.85	12.38	29.56	42.46	28.84	58.46					
3/18/1994		87.22		95.99	93.80	93.53	93.56	92.95				57.89	76.64		65.85		50.76		41.12			53.43	90.33	92.26			52.90		74.02	-72.13	48.86	56.92	14.23	-5.87	43.75	28.45	59.47					
4/15/1994				97.10	93.87	93.70	93.77	93.13				57.58	76.85		65.55		48.47	78.00				49.83	91.94	93.60					74.27		33.85	56.51		-60.99	41.67	8.42	42.24					
5/26/1994		90.51		100.26	95.02	94.00	94.14	93.43				56.49	76.80		65.55	56.06	45.80	76.57			48.72	42.84	93.15	95.06					73.75		17.27	55.38			38.13	-8.43	22.61					
6/30/1994		91.42		99.97	95.89	94.68	94.81	94.20				55.65	76.70		65.80		43.22	76.38				40.46	94.28	95.60			31.69		71.68		6.53	54.60		-86.40	38.47	-20.79	28.07					
7/21/1994		91.03		99.57	95.59	94.58	94.71	93.96				55.19	76.57		64.79		42.38	75.64				38.99	93.91	95.22					70.67		0.01	54.14			38.17	-24.65	27.92					
8/23/1994		90.27		98.56	94.83	94.16	94.25	93.62				54.65	76.65		64.44		39.42	75.91				35.85	93.46	94.67					69.62		8.55	53.58			34.48	-17.24	25.77					
9/27/1994		90.00		97.74	94.36	93.88	93.98	93.30				54.49	76.82		64.69		41.78	71.28				43.31	93.40	94.25					69.07		16.20	53.33		-11.33		-7.77	29.04					
10/31/1994				97.36	94.09	93.73	93.83	93.26				54.19	76.09								52.09	34.35	92.00	93.53			33.03		69.33		24.55	53.10		0.22		1.30	45.01					
11/1/1994																																											
12/6/1994				96.78	93.89	93.71	93.80	93.21				54.53	76.82		64.79						52.80		91.09	92.83			32.99		70.39		32.25	53.44				7.50	49.15					
1/12/1995		92.10		97.00	94.40	95.53	95.54	94.86		86.52		55.58	82.48		79.16	72.05	51.16	74.80	37.84	70.84	58.55	69.79	92.45	93.13			41.04		75.09		38.39	54.67		17.78	43.08	16.32	55.73		18.52			
2/16/1995		92.09		100.45	96.86	95.82	95.98	94.92		81.93		61.04	79.99		74.70	63.05	58.46	72.81	42.60	64.47	56.61	66.09	94.12	95.75			48.63		78.70		47.75	60.08		25.75	56.03	30.89	61.84		32.07			
3/24/1995		93.10		101.51	98.01	96.99	97.04	95.78		83.83	67.42	67.42	82.72	67.32	79.84	70.38	67.48	74.77	53.28	68.90	61.17	70.68	94.92	96.53	75.71		53.97		83.27		53.35	66.68		31.41	60.71	38.94	68.69		41.08			
4/21/1995		92.16		101.00	98.03	96.57	96.78	95.51		83.52	70.67	70.35	78.88	66.54	74.32	66.93	64.64	77.95	56.13	66.03	60.99	65.70	94.63	96.39	73.66		54.85		85.17		54.58	69.57		24.48	61.11	36.39	67.82					
5/26/1995		91.33		101.15	96.97	95.55	95.69	94.88		82.97	69.85	69.66	77.62	69.78	73.83	55.36	60.28	75.67	52.27	58.69	60.22	60.61	94.47	96.23			41.22		84.53		53.27	68.66		-27.50	54.36	25.77	66.29					
6/26/1995		91.86		100.68	96.69	95.24	95.34	94.82		81.17	65.18	65.15	77.05	70.52	72.79		52.84	75.59	42.07		53.35	56.86	94.79	96.23					81.98		47.21	63.74		-37.66	49.86	14.55	55.09		27.34			
7/31/1995		91.17		99.39	95.79	94.70	94.80	94.20				60.69	76.91	66.43	72.06		46.31	75.67				50.95	94.20	95.51					78.20		34.55	59.41		-45.29	43.06	-12.11	49.57					
8/23/1995		90.63		98.78	95.19	94.39	94.51	93.89				59.04	76.84		65.05		44.16	73.65				48.08	93.56	94.95					76.27		21.69	57.87			41.48	11.50	44.92					
9/27/1995		89.86		98.01	94.48	93.96	94.06	93.41				57.45	76.91		63.89		43.02	71.94				47.41	92.58	93.98			32.40		74.55		34.32	56.41		9.69	38.63	18.77	52.99					
10/27/1995		88.96		97.52	94.13	93.74	93.86	93.13				57.64	77.05		64.41		46.21	70.03				50.36	92.00	93.46			40.14		74.51		38.55	56.67		18.24	41.76	25.60	56.02					
11/28/1995		88.07		97.09	93.86	93.59	93.70	93.00				58.07	76.68		64.10		46.77		39.34		41.64	50.22	91.18	92.97			45.70		74.36		43.56	57.11		24.48	42.56	29.71	58.38					
12/1/1995																																											
1/3/1996		88.41		96.82	94.00	93.71	93.81	93.15				59.58	77.35		65.59		50.54		44.00		51.05	54.90	91.21	92.83			51.32		75.56		50.24	58.61		30.25	45.27	34.66	62.33					
2/7/1996		90.96		97.12	94.46	94.90	94.95	94.27		85.81		62.72	81.10		77.19	69.64	59.68	75.09	50.49	65.46	58.28	63.53	92.02	93.21			56.03		78.51		54.60	61.93		35.10	50.97	39.62	66.66		40.82			
3/15/1996		91.33		98.66	96.08	95.52	95.65	94.71		83.52	68.52	68.69	80.30		76.57	68.88	66.53	73.71	57.88	67.38	61.12	65.76	93.07	94.41	74.74		60.62		82.16		59.80	67.94		40.42	57.80	45.91	70.70		47.00			
4/26/1996		90.51		99.52	95.72	94.81	94.91	94.27		82.75	69.62	69.45	77.89		72.78	56.23	62.00	78.99	56.54	61.72	61.71	60.23	92.74	94.74	72.05		31.84		83.72		59.19	68.63		39.26	54.23	38.80	69.86					
5/28/1996		90.45		101.03	96.36	94.94	95.05	94.52		82.37	67.00	66.88	77.27	66.56	66.72		57.40	76.54	50.83		58.27	56.32	93.03	95.07			53.31		83.01		52.70	65.68		-40.67	49.94	26.27	64.88					
6/26/1996		90.91		101.17	96.93	95.56	95.58	94.98		80.94		64.34	77.04	68.99	66.06		51.68	76.44	41.00		52.11	53.57	93.58	95.66			38.77		80.25		48.90	62.32		-34.43	46.81	11.97	61.22					
7/23/1996		91.13		100.35	96.48	95.17	95.30	94.77				60.74	77.46	66.11	65.62		47.79	75.60			52.39	49.81	93.68	95.68			31.21		76.97		38.50	59.44		-51.29	44.07	11.12	56.04					
8/27/1996		90.92		99.73	97.05	95.57	95.75	94.93				58.33	77.14		65.13		45.13	75.01			52.17	47.15	93.52	95.30			32.18		74.24		36.65	57.33			41.68	19.61	41.99					

Table 2
Calculated Water Level Elevations – Teichert Aggregates, Woodland Properties

(all elevations in Feet, NAVD88)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
9/26/1996		91.02		99.90	97.52	96.09	96.30	95.16				63.18	77.00		64.99		47.67	77.06	37.54		53.31	47.84	93.54	95.39			37.13		72.93		37.21	56.43		15.01	41.84	24.13	56.24					
10/30/1996		90.97		99.83	97.55	96.16	96.37	95.27				57.36	76.81		64.22		49.30	73.78	39.95		57.11	45.80	93.55	95.27			49.00		73.09		41.66	56.47		22.40	42.59	31.37	58.81					
12/2/1996		90.77		97.01	96.20	95.30	95.42	94.73				64.69	76.84		65.09		47.81		43.24		54.46	48.21	92.99	94.76			53.65		73.74		48.02	57.08		-19.41	43.48	34.49	61.72					
1/9/1997		92.10		98.35	96.05	96.13	96.12	95.20		85.73		62.20	82.20		78.83	71.57	66.13	71.97	51.89	66.98	58.21	66.77	93.47	94.67	73.31		58.33		77.28		55.28	61.35		36.84	54.51	41.43	69.36					
2/14/1997		92.39		100.17	97.21	96.20	96.34	95.54		84.46	69.03	69.03	80.58	70.29	76.05	68.68	68.23	72.98	58.63	67.46	64.06	67.73	94.56	96.03	77.48		62.10		81.84		60.68	68.37		41.11	62.67	47.87	72.94					
3/20/1997		91.41		99.15	96.17	95.37	95.34	94.90		83.47	68.66	68.50	77.52		72.31	56.65	60.20	77.41	54.50	59.34	60.29	60.65	93.86	95.18			59.56		82.51		61.32	67.59		41.34	57.36	40.07	71.99		44.16			
4/28/1997		92.38		101.68	97.69	95.79	95.87	95.52		82.25	65.67	65.59	77.32		66.59		54.56	77.03	45.88		57.08	56.75	94.47	95.87					82.09		54.51	64.52		24.25	50.80	21.66	67.33					
5/21/1997		93.70		101.55	97.55	96.08	96.16	95.85				62.90	75.95		65.75		50.81	78.98	38.73		57.34	54.63	96.23	98.64			31.49		80.05		46.37	60.66		9.69	47.40	13.49	62.57					
6/25/1997		92.73		100.05	96.70	95.61	95.62	95.06				60.49	76.85	71.49	64.89		48.73	76.15			57.58	51.36	95.16	96.71			31.47		78.24		29.41	59.10		-21.95	44.95	4.04	60.25					
7/23/1997																	44.89	76.04																									
10/3/1997		91.49		97.94	94.98	94.57	94.66	94.15				62.60	76.85		64.03		48.86	77.55				45.77	94.00	94.88			31.53		73.06		35.90	55.91		11.54	40.94	22.78	57.72		20.58			
1/28/1998		90.71		96.76	94.02	94.37	94.42	93.74					80.92		77.63	67.06	60.06	73.89	48.92	63.69	57.50	60.58	92.25	93.25			55.74		75.94		54.51	60.43		35.33	50.00	39.32	66.59					
3/3/1998		93.52		101.26	98.37	97.52	97.69	96.45		86.15	73.22	73.43	83.96	74.27	80.39	71.94	72.53	75.20	62.88	72.86	66.89	72.24	95.33	97.13	81.26		60.65		85.40		63.43	72.96		40.88	66.12	51.36	78.51		51.85			
6/4/1998		92.45		102.50	97.91	96.42	96.55	95.80		84.78	74.88	74.62	80.43		74.80	61.85	67.25	75.32	60.90	74.31	61.49	63.20	94.69	96.59	74.93		25.38		86.74		64.07	73.78		40.65	58.46	45.14	75.37					
8/31/1998		92.63		100.14	96.96	95.87	95.96	95.48				66.20	78.74		65.09		55.45	76.03	49.72	63.29	53.80	56.47	94.84	96.52			30.82		80.12	32.85	49.80	65.30		24.71	50.79	29.51	66.55					
12/11/1998		89.91		97.40	94.40	94.20	94.25	93.90				66.00	79.49		66.10		58.09	70.02	55.28	58.69	57.16	57.50	91.14	93.35			59.90		78.21	45.05	59.21	65.36		39.26	45.69	51.79	69.98	39.31	48.20			
3/11/1999		90.02		96.48	93.92	94.17	94.25	93.56		85.00	70.85	70.79	81.69	65.32	76.67	64.85	66.95		61.17	69.39	61.06	64.78	90.93	92.71	75.80		65.71		81.74	53.31	64.27	70.25		45.04	58.58	47.13	74.58	42.77				
4/29/1999																	62.38	79.16																									
6/15/1999		92.38		99.71	96.31	95.38	95.49	94.89				65.93	78.83	73.07	68.22		53.81	77.45	44.61	62.29		56.08	94.69	96.35			50.21		81.56	0.11	52.24	64.91		-33.97	50.36	13.80	73.17	27.30	30.93			
9/13/1999		90.16		98.36	95.23	94.62	94.73	94.03					78.55		64.32			76.52		58.98		48.57	93.66	94.42			50.00		76.42	24.66	46.34	58.48		3.69	42.78	22.21	63.85	19.21				
12/10/1999		88.31		97.18	94.15	93.86	93.96	93.47					78.31		65.03		51.15	69.95	47.42		55.87	51.08	92.29	93.42			57.63		76.02	42.51	54.96	61.15		16.62	46.64	37.53	67.32	30.76	36.59			
3/22/2000		88.99		96.78	93.88	93.94	94.02	93.43		83.96		67.46	79.88		75.88	59.55	62.80	71.87	56.87	62.27	61.41	61.26	91.99	93.30	72.04		62.91		79.25	46.09	60.91	66.87		23.32	55.88	45.36	69.80	39.77				
6/26/2000		91.01		101.50	98.39	98.42	97.13	96.94					78.71		65.97		51.73	77.08	43.13			57.12	94.79	97.32			42.19		79.31	3.71	52.01	62.77		6.23	50.70	13.91	67.44	26.60	34.69			
9/27/2000		89.05		98.96	95.82	95.04	95.17	94.53				66.46	77.83		63.69			76.11	38.62			51.59	93.35	94.81			51.65		74.82	21.14	47.70	57.77		9.00	46.04	27.00	64.11	20.14				
12/8/2000		88.16		97.42	94.41	94.19	94.25	93.82					77.57		64.01		50.44		46.77			52.72	92.29	93.63			58.59		75.76	43.97	54.59	60.22		17.08	47.55	37.60	67.79	28.45				
3/29/2001		88.04		96.76	93.77	93.65	93.71	93.22		82.31			78.44		73.28		59.09	70.91	55.30	59.72		57.24	91.58	92.94			62.14		79.32	40.76	59.93	65.68		21.70	52.44	43.72	72.28	20.83				
7/2/2001		89.05		99.32	95.91	95.18	95.30	94.56					77.87		65.88		49.16	76.24	38.54			54.96	93.84	95.44			46.22			18.36	49.56	61.31		2.30	49.18	11.47	67.22	20.37	25.89			
9/7/2001		89.10		99.01	96.00	95.21	95.32	94.65					77.73		64.01		46.38	75.84	38.99			54.19	93.58	95.05			45.06	75.83	9.38	46.46	58.66		0.91	47.35	25.59	64.54	23.14	28.15	26.05		
12/6/2001		88.94		97.30	94.76	94.44	94.50	94.06					79.31		67.46		54.02	70.86	48.62			56.34	92.27	93.59			53.46	74.70	39.57	52.53	60.11		11.77	49.16	37.79	66.72	26.60	34.04	-38.25		
3/21/2002		88.52		97.22	94.72	94.11	94.19	93.70		80.89		66.40	78.13		71.99		58.63		55.92	58.82		56.71	91.60	93.32			59.99	79.07	40.41	59.60	65.80		19.39	52.60	44.75	71.15	36.08	48.23	43.88		
6/6/2002		88.54		99.35	96.08	95.09	95.23	94.52					77.79		66.25		52.27	76.85	45.20	58.64		57.02	93.10	94.88			52.43	79.21	23.16	52.34	62.70		6.00	50.70	11.96	69.55	21.98	31.07	22.23		
9/9/2002		88.87		99.36	96.43	95.55	95.73	94.99					77.84		63.44			75.75				53.30	93.66	95.15			35.33	74.89	4.22	39.24	56.64		-7.17	46.55	20.10	63.07	15.75	19.06	-50.40		
11/25/2002		88.59		97.41	94.71	94.43	94.58	94.00					78.07		65.38		49.20		44.75			52.95	92.32	93.73			47.30	73.69	23.49	47.05	58.02		4.38	46.63	34.52	65.01	24.53	36.41	30.05		
3/24/2003		88.87		97.33	94.65	94.45	94.52	94.05		81.73		67.18	79.09		75.26	60.64	61.38	71.64	56.74	61.58		58.78	92.24	93.60			58.74	80.03	40.76	59.05	66.36		17.08	53.74	45.28	73.41	34.46	48.05	42.04		
6/10/2003		88.56		98.37	95.84	94.90	95.05	94.28				67.10	78.35	66.96	66.80		55.69	77.87	49.52	58.65		57.97	92.77	93.69			38.25	82.33	8.27	55.92	66.22		7.15	52.69	17.67	74.06	25.22	33.33	23.54		
9/2/2003		92.17		100.63	97.87	96.55	96.79	96.00					77.92		64.91		47.46	74.36	42.44			53.41	94.45	96.43			41.76	76.86	6.29	44.67	59.68		-0.24	46.48	25.82	68.77	18.52	25.39	-49.65		
12/8/2003				97.57	95.06	94.77	94.82	94.43					78.27		64.89		51.32		48.92			53.84	92.92	94.24			52.34	75.78	27.17	51.19	60.87		7.84	48.12	38.17	68.69	26.37	34.32	-41.25		
3/5/2004	91.60		97.29	95.39	95.46	95.53	94.79		85.72		69.28	82.73		78.33	70.12	68.29	72.95	59.47	69.50		67.18	93.07	94.09	76.06		60.12	81.89	38.35	60.55	68.84		17.55	60.22	47.63	76.95	38.85	51.24	45.48		
6/21/2004	91.99		100.41	96.59	95.61	95.68	95.18					78.87		66.21		49.29	75.97	39.47			54.47	94.94	96.44			36.38	78.95	4.32	44.50	61.38		-19.18	46.23	9.92	69.17	15.52	19.29	-53.10		
9/20/2004	89.38		99.00	96.31	95.60	95.58	95.14					78.43		64.02		45.90	71.62				54.24	93.75	95.35			32.53	74.39	5.45	36.02	57.19		-14.33	46.35	25.95	63.19	16.21	29.51	21.28		
12/22/2004				96.87	94.26	94.15	94.22	93.84					78.90		65.79		51.30		48.05			54.10	92.51	93.54			49.44	75.40	29.83	51.54	59.91		6.46	48.11	38.56	68.39	28.22	41.06	36.26		
4/1/2005	89.22		96.88	94.14	94.11	94.15	93.69				67.33	80.79		76.84	62.26	61.83	70.78	57.25	63.90		61.36	92.33	93.43	71.64		57.89	80.37	37.33	58.21	66.87		14.54	54.46	46.03	73.61	35.84	42.92	-29.79		
6/20/2005	92.21		100.19	97.42	96.14	96.28	95.63		81.35		65.23	78.13		66.13		52.70	76.95				56.18	94.39	95.95			42.81	82.32	4.84	50.21	64.09		-2.57	51.82	17.17	68.52	20.83	30.36	24.97		
9/19/2005	91.24		100.11	97.37	96.28	96.42	95.74				65.26	77.69		64.02		46.47	75.60		58.78		50.68	94.50	96.23			28.77	76.98	8.30	40.90	59.50		-15.02	44.63	26.10	67.02	11.59	29.45	19.66		
12/15/2005	90.96		97.35	94.76	94.53	94.58	94.22					77.74		64.27		49.60			63.57		51.39	92.74	93.95			48.97	76.16	29.97	49.42	59.82		3.69	46.16	37.37	69.02	25.45	37.31	26.64		
4/28/2006	92.84		99.03	96.75	96.55	96.52	95.78		89.01	76.34	76.08	82.41	68.56	84.29	70.71	72.25	72.78	64.58	72.92		68.27	94.26	95.62	80.56		62.43	87.61	36.89	63.36	75.64		17.08	64.30	53.12	80.57	42.31	53.66	41.08		
6/16/2006	92.43		102.04	97.80	96.33	96.51	95.98		86.09		71.32	78.78		71.90	55.22	60.21	77.62	52.59	58.50		61.20	94.88	96.60			47.30	87.08	-3.30	52.71	70.22		-13.87	59.27	29.38	77.84	30.07	39.86	30.29		
9/8/2006	92.34		101.95	98.83	97.31	97.48	96.57					78.32		66.04		53.67	75.43				59.01	94.43	96.51			39.56	80.57	24.57	45.66	63.47		-4.40	72.02	31.66	71.15	26.14	35.13	22.29		
11/30/2006	91.63		98.44	95.67	95.27	95.33	94.81					78.43		64.54		54.89		52.93			57.43	93.33	94.68			39.87	78.73	26.36	51.84	63.86		2.76	51.96	42.55	72.00	30.07	37.33	-45.54		
3/21/2007	90.27		96.69	94.13	93.73	93.82	93.27					78.57		72.59		57.92		54.94	60.25		58.92	91.87	93.07			59.08	79.49	26.80	54.52	65.69		1.38	53.55	43.44	73.71	32.38	46.83	40.59		
6/8/2007	90.38		99.10	94.36	93.50	93.64	92.24					78.26		64.94		50.93	76.97				56.03	93.03	93.84			25.14	78.11	0.80	42.74	60.72		-13.87	47.59	8.91	73.34	15.29	27.27	21.79		
9/4/2007	91.37		99.87	97.22	95.62	95.90	94.27					77.79		63.90		45.52	73.21				56.49	93.77	94.87			32.13	74.27	17.41	32.98	56.96		-26.81	49.54	18.13	66.95	9.74	18.59	-46.31		
12/21/2007	90.43		97.80	95.03	94.28	94.42	93.27					78.20		64.39		50.17			58.70		56.39	92.12	93.37			49.57	75.35	34.66	46.97	59.21		0.68	49.16	37.08	69.80	25.22	39.09	33.58		
3/13/2008	91.33		98.49	95.55	94.81	94.93	93.90			64.18		79.11		74.60	56.88	57.84	70.25	55.16			59.62	93.00	94.15			57.36	81.16	29.44	55.08	66.55		5.30	54.77	43.87	77.32	50.61	64.26	42.30		
7/1/2008	90.14		102.23	98.41	96.08	96.38	93.58					77.74		65.22		47.86	75.95		59.07		52.41	92.19	93.84				77.97		34.55	59.25	23.41		44.81	6.12	76.72	24.79	18.84	12.56		
9/10/2008	90.60		100.74	97.54	95.29	95.58	92.93					77.58		63.91		44.42	74.82				53.98	93.26	94.00			22.18	75.15	17.13	32.34	56.87	21.16	-26.11	44.92	15.89	69.42	24.98		13.80		
12/1/2008	89.87		98.72	95.75	94.35	94.56	92.68					77.44		64.21		45.26			59.03		52.74	91.54	92.44			44.12	74.68	17.83	43.18	57.15	29.52	-50.60	44.44	32.17	68.86		33.75	28.81		
3/17/2009	90.41		97.50	94.73	94.06	94.17	93.02					78.79		73.34		52.69	70.05				58.03	91.87	92.75			51.48	77.83	27.86	51.47	62.42	37.05	27.02	50.86	40.47	75.39	46.51	42.94	37.97		

Table 2
Calculated Water Level Elevations – Teichert Aggregates, Woodland Properties

(all elevations in Feet, NAVD88)

Date	TA-1	TA-1A	TA-3	TA-3A	TA-4	TA-5	TA-5A	TA-6	TA-7	TA-8	TA-9	TA-9R	TA-10	TA-11	TA-12	TA-13	TA-13A	TA-14	TA-15	TA-16	TA-17	TA-18	TA-22	TA-23	TA-24	TA-25	Coors North	Coors South	YFC-West	YFC-East	Storz	Stephens	Muller	Muller #2	Schwarz-gruber	Schwarz-gruber #2	Teichert Dom	Teichert Plant Dom	Teichert Plant	Teichert Plant New	Rodgers Dom North	Rodgers Dom-New South
6/16/2009		88.88		98.84	94.01	93.92	93.98	91.35					77.57		65.24			77.12		63.24		41.48	91.18	93.12					76.51	-49.64	22.77	57.63	17.48	-45.98	35.18	-5.03	64.73		3.85	-54.90		
9/14/2009		88.66		98.67	95.28	93.80	94.04	90.60					77.31		63.05			71.87		59.20		36.86	90.64	93.00		66.15	5.10		73.21	-16.91	7.72	55.27	7.56	-50.14	32.40	-2.21	59.97		1.44	-4.37		
12/7/2009		88.36			94.46	93.51	93.69	91.05					77.36		64.29								89.47	92.29		62.25	32.78		72.00	4.24	29.20	54.32	16.46	7.61		17.49	60.89		17.33	13.33		
3/22/2010		90.19		97.86	94.46	93.76	93.90	92.31		86.22			78.48		73.13	56.16	51.95					58.89	91.65	93.33		67.55	43.02		76.41	7.62	44.69	59.84	29.50	-72.73	45.89	34.40	71.90	40.85	36.62	31.22		
6/22/2010		89.78		105.69	97.47	94.83	95.06	91.69					77.26		66.33		52.98	76.33				57.77	93.34	97.44		69.08	31.48		79.54	9.86	32.37	61.04	23.74	-35.35	47.03	5.82	72.68	30.93	21.90	14.37		
9/13/2010		90.38		102.09	99.07	96.35	96.63	93.11					76.71		64.09		46.86	76.21				57.60	93.98	95.62		65.29	19.91		75.91	11.40	25.54	56.85	17.11	-73.93	51.21	16.08	66.70	22.50	14.57	-33.41		
12/1/2010		89.84		99.55	96.69	94.92	95.12	93.04					76.65		63.95		44.95		54.95			52.23	92.70	94.31		64.15	35.04		74.19	8.44	30.65	55.94	24.45	-56.46	41.72	28.24	65.01		29.10	23.22		
4/5/2011		91.72		100.55	97.55	96.27	96.43	94.33		89.00			82.30		78.06	70.12	67.85	71.32	57.01	69.91		67.60	93.92	95.84	73.38	75.86	48.68		81.95	23.56	49.20	68.06	40.41	-14.56	60.57	44.97	76.70	51.01	41.85	-40.18		
6/16/2011		90.98		104.71	100.42	96.92	97.33	93.95					77.87		72.23		58.31	76.98		59.63		60.36	95.05	97.75		74.53	25.32		83.93	18.74	67.84	67.31	36.23	-53.88	54.70	23.28	79.61		34.12	24.33		
9/12/2011		91.08		103.14	99.59	96.47	96.81	93.86					77.72		66.09		51.54	75.97				58.95	95.71	98.14		68.40	3.43		79.04	5.62	23.66	62.00	27.92	-84.09	54.68	26.85	67.83		30.78	21.71		
12/6/2011		90.74		100.03	100.27	95.22	95.42	93.54					77.56		64.56		51.48	75.45				58.25	94.57	95.98		66.66	33.49		76.26	5.78	37.66	61.62	35.23	-62.84	50.80	38.78	68.90	43.55	35.21	-39.97		
3/29/2012		90.54		98.03	95.52	94.45	94.56	93.19					79.76		74.12		58.25	73.40		62.98		60.71	93.70	94.72		68.71	40.58		77.23	27.02	44.81	63.75	39.53	-59.13	52.41	41.53	70.85	48.52	44.71	38.97		
8/3/2012		91.33		103.05	98.82	96.19	96.47	93.69					77.49		64.71		47.63					53.00	96.13	98.71		64.79	7.18		75.94	-3.12	18.21	58.31	17.75	-83.43	48.72	7.41	65.49		16.98	8.38		
9/10/2012		91.36		102.58	98.72	96.03	96.31	93.36					77.18		61.85		45.08	75.19				55.47	96.16	98.42		63.28	8.48		74.69	4.67	17.89	55.84	17.35	-82.23	46.19	14.74	64.77	21.96	12.70	-48.96	17.22	17.08
1/25/2013		92.37		100.16	97.02	95.39	95.60	93.89					78.22		73.59		55.59					58.29	91.55	92.87		66.86	39.38		77.64	20.33	38.50	61.82	35.25	-48.73	51.35	38.84	70.99	34.85		-44.10	40.11	40.02
4/15/2013		90.76		99.61	96.34	94.67	94.89	92.95					77.52		70.13		56.86	75.94				57.63	90.99	91.94		68.11	26.08		78.23	4.19		63.57	35.75	-66.53	50.38	32.04	70.41		38.57	28.64	32.89	34.41
7/12/2013		90.87		102.50	98.30	95.73	96.10	93.14					76.78		63.40		47.78	75.20				43.24	92.27	94.45		64.83	-13.82		76.33	-30.82		57.32	16.85	-88.63	38.80	-1.36	63.66		12.80	6.02	5.41	5.23
9/12/2013		91.04		101.81	98.12	95.70	96.02	93.13					76.69		63.74		46.24	74.24				52.15	92.27	94.17		63.98	-13.02		75.41	-24.50		55.57	14.55	-89.43	41.25	10.91	63.11		15.33	8.04	11.90	13.15
12/16/2013		90.05		98.82	95.72	94.62	94.79	93.13					77.00		63.96		44.52					26.92	89.57	90.86		63.98	6.78		75.13	-2.12		55.44	22.15	-79.93		23.79	64.36	26.08	26.82	19.64	23.77	24.63
6/2/2014		88.82		97.33	94.12	93.25	93.48	91.19					76.41		62.61			71.23					87.64	89.19		64.14	<-180.12		72.50	-28.42		55.10	12.15	-46.93		-3.90	63.77		4.41	-51.02	-0.58	-0.62
8/20/2014		88.07		97.47	94.08		93.35	90.77					74.76										86.28	88.57		60.67	36.76		68.08	-9.94		52.11	-9.45	-88.03		-23.57	56.41		-16.17	-22.16	-22.15	-22.37
10/6/2014		87.76		97.08	94.16		93.25	90.77					74.37					71.63					85.70	88.36		59.71	36.48		67.49	-4.49		51.54	-6.15			-13.75	63.19		-12.07	-16.86	-18.72	-18.30
12/23/2014		90.43		96.60	94.33	94.72	94.72	93.73		87.58			79.86				51.09			62.30		56.68	87.74	89.06	98.50	61.70	32.79		71.76	-15.69		53.77	3.75			2.33	62.80		5.39	1.46		1.59
2/6/2015	--		--			--			--		--	--									--						--										--				17.52		
3/20/2015		88.81		96.79	95.73	93.50	93.63	92.47					77.52		65.41		46.42	74.64				46.48	87.12	88.94		64.67	35.98		73.53	7.38		55.68			41.02	20.02	64.33		25.86	19.61	21.23	21.15
7/20/2015		91.63		100.91	96.95	94.76	95.05	92.03					77.52		64.69		45.50					36.06	92.16	94.06		64.38	-5.37		74.73	-33.14		55.61	-0.65			-23.48	61.75		-41.50			-21.45
10/15/2015		90.69		99.73	96.18	94.78	94.92	92.52					76.32										90.38	91.87		63.00	-16.44		71.71	-52.17		53.19	-1.89	-89.43		-11.46	61.33		-11.47			
11/11/2015																																									-7.17	-7.09
2/9/2016		89.86		97.25	94.49	94.15	94.27	92.92					78.17		65.50		51.01					55.36	88.56	89.77		63.91	-10.12		73.69	-18.96		53.90	7.03	-83.33	38.21	10.34	63.51		8.93			9.98
4/12/2016		90.09		97.02	94.69	94.42	94.59	92.91					78.18		72.33		54.93					58.72	88.73	89.89		66.55	5.08		75.73	-8.37		57.13	18.90	-78.78	43.69	19.54	65.25		21.01			21.09
6/22/2016		91.35		101.81	97.63	95.90	96.13	93.56					77.10		64.70		49.49	74.16				51.35	91.40	93.33		66.49	-13.12		76.11	-13.24		57.60	9.16		39.62	-9.06	65.05		2.93			-3.52
9/13/2016		92.03		102.85	98.89	96.29	96.61	93.83					76.88		63.05		44.90	72.17				53.59	93.33	95.76		64.75	23.38		74.37	1.86		54.86	1.63		40.34	-4.21	61.72		-3.07			
12/13/2016		91.18		99.60	96.48	95.18	95.36	93.56					78.18		63.89		47.47					53.01	90.65	91.80		67.05	-3.62		75.79	-20.39		54.73	11.55	-82.24	38.89	-0.78	62.89		10.73			
4/24/2017		92.55		102.17	99.30	97.74	97.38	96.08					79.40		73.84		63.16	75.37				63.19	92.90	93.75		78.09	24.88		85.15	7.76		72.25	37.94	-74.16	57.32	43.14	74.79		-46.87			44.48
7/20/2017		93.86		106.91	101.32	98.07	98.30	94.47					77.44		66.33		53.23	76.00				58.13	94.76	99.82		73.78	31.88		80.76				21.00		48.20	16.29	68.74					19.23
10/19/2017		91.54		102.21	98.83	96.31	96.59	93.92					76.65		63.48		45.18	76.39				50.27	92.62	93.99		67.08	36.88		77.18			57.91	20.45		44.15	26.34	64.50					27.18
12/12/2017		91.49		100.15	97.14	94.87	96.23	93.50					77.25		64.86		49.71					53.30	91.40	92.48		67.05	28.34		77.08			59.37	26.10	-82.33	45.75	31.96	65.61					33.23
3/29/2018		91.45		98.10	95.46	93.44	95.87	93.08					77.85		66.25		54.24					56.34	90.18	90.98		67.03	19.81		76.98	5.53		60.84	31.76	-76.47	47.35	37.59	66.72		-45.70			39.27
7/18/2018		91.01		99.74	96.89	95.04	95.28	92.50					76.78		65.00		47.82	78.92				53.96	91.51	91.49		66.60	33.32		76.48	-19.14		57.99	24.23		44.43	5.63	64.56					10.13
9/7/2018		91.44		100.23	97.19	95.69	95.84	92.77					77.16		64.90		46.97	77.73				52.78	92.16	92.81		64.71	20.36		75.36	-57.79		56.10	15.88	-86.29	43.81	15.30	63.11					17.38
1/29/2019		91.87		98.93	96.51	95.75	95.87	94.29					78.82									58.74	92.07	92.87		66.53	7.35		78.07	-4.48		60.40	30.09	-76.33	51.09	37.02	67.07		32.24			38.04
4/14/2019		92.24		101.94	99.36	97.50	97.71	94.91		87.61			80.61		76.60		63.72			67.57		65.47	92.20	94.13	75.92	79.27	23.38		84.83	9.33		72.24	43.08	-69.33	63.32	47.01	75.65		51.55			49.91
7/11/2019		90.72		101.39	97.84	95.61	95.88	92.86		85.44			78.57		66.29		57.15	77.73				58.65	91.02	92.47		76.92	28.34		83.38	11.09		69.40	33.34	-87.33	51.90		72.93		35.25			26.56
10/10/2019		90.63		101.27	97.90	95.72	95.90	93.27					77.65		63.73		48.89	77.38				53.11	91.32	92.70		72.51	-14.26		79.10	-32.45		63.72	30.42	-88.03	49.06		69.05		29.77			34.15
1/20/2020		90.61		98.82	96.12	94.87	96.48	93.44					77.38				53.38					56.12	90.61	91.49		71.81	27.55		78.67	5.49		64.20	37.27	-70.70	50.57		70.61		45.35			43.13
3/30/2020		89.98		98.24	95.68	95.21	95.27	93.35					78.16		65.50		54.31	76.08				57.32	89.83	90.66		72.48	13.67		79.36	3.62		65.30	36.76	-70.23	51.53		71.94		42.32			37.67
6/12/2020		91.28		100.22	97.05	95.35	95.57	93.11					77.86		65.03		50.57	77.90				57.82	91.96	93.98		72.92	14.65		78.99	-4.87		64.28	27.77	-72.08	52.79		68.04		28.58			19.65
9/15/2020		90.75		101.21	97.87	95.68	96.00	93.06					77.78		64.21		48.94	76.48				54.38	91.74	92.85		68.56	-11.97		76.16	-22.60			22.10	-79.73	47.10		65.47		15.25			23.40

Table 3
Water Quality – Conventional Constituents
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	pH (standard pH-units)	TDS	EC (µS/cm)	Na	Ca	Mg	K	Cl	SO4	F	Alkalinity HCO3 as CaCO3	Alkalinity CO3 as CaCO3	Alkalinity OH as CaCO3	Alkalinity Total as CaCO3	Total Hardness as CaCO3	NO3 as NO3	NO2 as N	BOD	Total P	MBAS	Coliform Total (MPN/100 mL)	Coliform Fecal (MPN/100 mL)	Coliform E. Coli (MPN/100 mL)
MCL[1]		*6.5/8.5*	*500*	*900*					*250*	*250*	2						45	1			*0.5*			
TA-1A	9/16/2005	7.15	**800**	**1,300**	99	72	100	<1.0	45	78	0.68	640	<5.0	<5.0	640	610	27	-	-	-	-	<2	<2	-
TA-1A	1/11/2006	7.29	**730**	**1,200**	99	62	94	<1.0	28	60	0.66	620	<5.0	<5.0	620	540	16	-	-	-	-	<2	<2	-
TA-1A	3/28/2006	7.20	**740**	**1,200**	99	64	96	<1.0	17	63	0.78	610	<5.0	<5.0	610	560	13	-	-	-	-	<2	<2	-
TA-1A	9/5/2006	7.15	**780**	**1,200**	140	72	98	1.6	27	60	0.68	670	<5.0	<5.0	670	580	15	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	3/19/2007	7.06	**710**	**1,200**	99	63	96	1.0	24	65	0.63	650	<5.0	<5.0	650	550	14	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	9/5/2007	7.10	**520**	**910**	73	48	72	<1.0	29	27	0.73	480	<5.0	<5.0	480	420	<2.0	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	3/10/2008	7.00	**510**	870	64	48	70	<1.0	27	38	0.66	420	<5.0	<5.0	420	410	3.0	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	9/11/2008	7.01	460	770	57	44	64	<1.0	27	19	0.60	420	<5.0	<5.0	420	370	<2.0	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	9/15/2009	6.98	**520**	**900**	57	52	77	<1.0	28	34	0.34	460	<5.0	<5.0	460	450	4.9	-	-	-	-	13	<1.8	<1.8
TA-1A	3/24/2010	7.12	**520**	870	62	42	70	<1.0	36	66	0.66	400	<5.0	<5.0	400	390	7.0	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	4/7/2011	7.03	**700**	**1,200**	86	56	93	<1.0	43	80	0.57	570	<5.0	<5.0	570	520	9.3	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	5/1/2012	7.68	**790**	870	100	66	100	<1.0	39	74	0.67	680	<5.0	<5.0	680	580	7.7	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	4/16/2013	7.26	**670**	**1,200**	85	57	96	<1.0	39	29	0.65	620	<5.0	<5.0	620	570	<2.0	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	6/3/2014	7.24	**740**	**1,400**	84	65	87	<1.0	31	53	0.66	750	<5.0	<5.0	750	520	3.5	-	-	-	-	<1.8	<1.8	<1.8
TA-1A	3/27/2015	7.10	**870**	**1,400**	97	63	79	<1.0	41	110	0.93	640	<5.0	<5.0	640	490	2.2	-	8.3	0.14	-	7.8	<1.8	<1.8
TA-1A	4/26/2017	7.38	420	870	65	36	53	1.3	27	33	0.69	380	<5.0	<5.0	380	310	8.1	-	9.0	<0.050	-	<1.8	<1.8	<1.8
TA-1A[2]	4/11/2019	7.63	300	540	36	19	32	<1.0	13	32	0.50	230	<5.0	<5.0	230	48	<2.0	-	-	<0.050	-	<1.8	<1.8	<1.8
TA-3A	9/16/2005	8.45	410	660	66	33	40	1.9	31	48	0.47	240	14	<5.0	250	250	34	-	-	-	-	<2	<2	-
TA-3A	3/28/2006	*Well goes dry during purging. No sample retrieved.*																						
TA-3A	9/5/2006	*Well goes dry during purging. No sample retrieved.*																						
TA-3A	9/6/2007	7.56	**750**	**1,200**	80	74	110	1.0	29	51	0.54	620	<5.0	<5.0	620	620	23	-	-	-	-	23	<1.8	<1.8
TA-5A	11/6/1995	7.7	**630**	**1,200**	75	77	73	2.3	57	85	0.31	-	-	-	410	520	**63**	ND	-	-	-	ND	ND	-
TA-5A	3/19/2007	6.96	**690**	**1,100**	77	81	86	2.2	23	47	0.32	620	<5.0	<5.0	620	560	19	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	3/10/2008	7.03	**680**	**1,100**	72	84	86	2.2	34	52	0.40	540	<5.0	<5.0	540	570	16	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	9/11/2008	7.13	**720**	**1,100**	74	90	89	2.2	38	68	0.36	570	<5.0	<5.0	570	590	21	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	9/15/2009	7.13	**710**	**1,200**	78	88	93	2.2	42	67	0.23	600	<5.0	<5.0	600	610	23	-	-	-	-	2.0	<1.8	<1.8
TA-5A	3/24/2010	7.17	**720**	**1,200**	73	78	87	2.1	62	71	0.38	540	<5.0	<5.0	540	550	18	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	4/7/2011	7.16	**640**	**1,100**	67	75	83	1.9	39	62	0.31	530	<5.0	<5.0	530	530	35	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	5/1/2012	7.25	**650**	**1,100**	68	75	83	1.9	31	56	0.39	600	<5.0	<5.0	600	530	24	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	4/16/2013	7.26	**710**	**1,300**	65	85	100	1.9	43	73	0.41	600	<5.0	<5.0	600	620	22	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	6/3/2014	7.33	**700**	**1,300**	66	82	78	2.1	39	64	0.52	580	<5.0	<5.0	580	530	18	-	-	-	-	<1.8	<1.8	<1.8
TA-5A	3/27/2015	7.29	**760**	**1,300**	71	77	69	1.6	45	64	0.65	550	<5.0	<5.0	550	480	15	-	5.0	2.0	-	46	<1.8	<1.8
TA-5A	4/26/2017	7.32	**660**	**1,300**	75	71	72	1.8	50	95	0.33	520	<5.0	<5.0	520	480	39	-	<3.0	<0.050	-	<1.8	<1.8	<1.8
TA-5A[2]	4/11/2019	7.42	**740**	**2,100**	66	70	75	1.4	50	110	0.35	550	<5.0	<5.0	550	180	36	-	-	<0.050	-	<1.8	<1.8	<1.8
TA-9R	Spring '92	7.7	**890**	**1,270**	97.4	82	64.8	-	130	92.4	0.13	487	ND	ND	487	380	25	-	-	-	0.06	-	-	-
TA-9R	11/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	ND	-
TA-13A	11/7/1995	7.8	270	620	38	37	32	2.7	34	23	0.17	-	-	-	230	230	5	ND	-	-	-	ND	ND	-
TA-13A	7/23/1997	7.8	409	639	40	50	40	2.9	29	41	0.26	274	ND	-	274	288	7.3	-	-	-	-	23	ND	-
TA-13A	3/5/1998	7.6	248	387	17	38	28	2.2	11	21	0.16	201	ND	-	201	185	ND	-	-	-	-	2	ND	-
TA-13A	9/29/1998	7.6	324	507	27	37	29	2.6	23	26	0.17	206	ND	-	208	212	3.9	-	-	-	-	ND	ND	-
TA-13A	4/29/1999	7.4	275	430	26	42	31	4.2	20	30	0.16	214	ND	-	214	231	2.9	-	-	-	-	4	ND	-
TA-13A	4/19/2000	7.8	330	540	37	45	33	2.8	36	35	0.13	210	ND	-	210	250	5.9	-	-	-	-	ND	ND	-
TA-13A	5/7/2001	7.6	400	690	54	49	40	2.7	69	57	0.13	220	ND	-	220	290	14	-	-	-	-	ND	ND	-
TA-13A	5/7/2002	7.6	420	690	52	56	45	2.4	57	43	0.11	240	ND	ND	240	320	13	-	-	-	-	ND	ND	-
TA-13A	4/9/2003	7.71	350	600	42	51	41	2.6	39	38	ND	270	ND	ND	270	290	6.6	-	-	-	-	13	ND	ND
TA-13A	9/15/2003	7.58	350	550	42	41	32	2.4	33	27	0.18	250	ND	ND	250	240	10	-	-	-	-	ND	ND	ND
TA-13A	4/14/2004	7.51	310	510	30	44	32	1.6	31	33	0.17	240	ND	ND	240	240	3.1	-	-	-	-	2.0	ND	ND
TA-13A	9/28/2004	7.50	350	610	49	49	38	3.0	35	30	0.28	260	ND	ND	260	280	11	-	-	-	-	ND	ND	ND
TA-13A	4/14/2005	7.50	360	560	41	46	36	2.3	35	36	0.15	250	<5.0	<5.0	250	270	4.2	-	-	-	-	13	2.0	2.0

Table 3
Water Quality – Conventional Constituents
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	pH (standard pH-units)	TDS	EC (µS/cm)	Na	Ca	Mg	K	Cl	SO4	F	Alkalinity HCO3 as CaCO3	Alkalinity CO3 as CaCO3	Alkalinity OH as CaCO3	Alkalinity Total as CaCO3	Total Hardness as CaCO3	NO3 as NO3	NO2 as N	BOD	Total P	MBAS	Coliform Total (MPN/100 mL)	Coliform Fecal (MPN/100 mL)	Coliform E. Coli (MPN/100 mL)
MCL[1]		*6.5/8.5*	*500*	*900*					*250*	*250*	2						45	1			*0.5*			
TA-13A	9/15/2005	7.49	360	640	51	48	38	2.7	38	34	0.16	280	<5.0	<5.0	280	280	16	-	-	-	-	<2	<2	-
TA-13A	3/28/2006	7.46	220	370	18	36	24	2.3	11	17	0.16	180	<5.0	<5.0	180	190	<2.0	-	-	-	-	130	<2	-
TA-13A	9/11/2006	7.13	370	610	31	50	32	3.3	36	40	0.15	260	<5.0	<5.0	260	260	13	-	-	-	-	>1,600	920	280
TA-13A	3/20/2007	7.13	380	710	56	48	39	2.6	67	42	0.12	240	<5.0	<5.0	240	280	8.4	-	-	-	-	<1.8	<1.8	<1.8
TA-13A	9/5/2007	7.41	320	590	47	40	32	2.7	29	26	0.17	250	<5.0	<5.0	250	230	7.5	-	-	-	-	<1.8	<1.8	<1.8
TA-13A	3/12/2008	7.21	300	510	33	41	29	2.5	33	31	0.16	190	<5.0	<5.0	190	220	6.5	-	-	-	-	170	7.8	4.5
TA-13A	9/15/2009	*Insufficient water in well. No sample retrieved.*																						
TA-13A	3/23/2010	7.37	400	700	53	42	36	2.3	60	50	0.13	220	<5.0	<5.0	220	250	3.7	-	-	-	-	2.0	<1.8	<1.8
TA-13A	9/16/2010	*Biennial sampling conducted in March 2010*																						
TA-13A	4/4/2012	7.62	410	730	70	54	44	2.8	79	37	0.17	230	<5.0	<5.0	230	320	6.4	-	<3.0	<0.050	-	<1.8	<1.8	<1.8
TA-13A	9/12/2012	*Biennial sampling conducted in April 2012*																						
TA-13A	6/2/2014	*Well dry. No sample retrieved.*																						
TA-13A	10/6/2014	*Well dry. No sample retrieved.*																						
TA-13A	3/27/2015	*Insufficient water in well. No sample retrieved (followup attempt to sample since well was dry in 2014)*																						
TA-13A	4/13/2016	7.78	260	510	47	24	21	2.1	27	20	0.23	190	<5.0	<5.0	190	150	<1.8	-	18	<0.050	<0.10	4.5	<1.8	<1.8
TA-13A	4/3/2018	7.88	450	880	68	51	43	2.6	100	51	0.11	260	<5.0	<5.0	260	300	6.8	-	<3.0	<0.050	-	13	4.5	4.5
TA-13A	3/31/2020	7.66	440	820	58	43	37	2.6	85	45	0.14	270	<5.0	<5.0	270	260	11.1	-	<3.0	<0.050	<0.10	49	49	14
TA-14	3/1/1992	7.9	481	614	36.8	42.7	33	-	41.6	26.9	0.25	291	ND	ND	291	252	7	-	-	-	ND	-	-	-
TA-14	3/5/1998	8	260	407	32	34	29	3	18	16	0.3	202	ND	-	201	203	2.3	-	-	-	-	ND	ND	-
TA-14	9/29/1998	7.8	297	464	30	34	25	1.2	18	20	0.31	199	ND	-	196	188	1.4	-	-	-	-	4	2	-
TA-14	4/29/1999	7.4	268	418	29	37	27	1.1	22	19	0.24	204	ND	-	204	201	4	-	-	-	-	17	ND	-
TA-14	9/14/1999	7.7	288	426	30	31	24	1.1	17	15	0.27	196	ND	-	196	178	ND	-	-	-	-	17	9	-
TA-14	4/19/2000	7.7	270	430	35	34	25	1.4	16	18	0.22	200	ND	-	200	190	3	-	-	-	-	4	4	-
TA-14	9/19/2000	7.9	270	440	33	32	25	1	13	15	0.16	190	ND	-	190	180	ND	-	-	-	-	ND	ND	-
TA-14	5/7/2001	7.7	250	430	34	34	26	1.1	15	15	0.23	180	ND	-	180	140	3.3	-	-	-	-	17	2	-
TA-14	9/20/2001	7.5	280	450	34	33	25	1.2	14	13	0.18	200	ND	-	200	180	ND	-	-	-	-	ND	ND	-
TA-14	5/7/2002	7.7	270	400	34	36	27	1.2	16	13	0.2	190	ND	ND	190	200	3	-	-	-	-	2	2	-
TA-14	9/25/2002	7.5	270	440	32	38	27	1.1	15	11	0.39	200	ND	ND	200	210	ND	-	-	-	-	ND	ND	-
TA-14	9/15/2003	7.62	270	430	29	34	24	1.5	16	12	0.29	210	ND	ND	210	190	ND	-	-	-	-	17	ND	ND
TA-14	4/14/2004	7.77	260	420	27	35	25	ND	19	13	0.32	220	ND	ND	220	190	3.9	-	-	-	-	14	6.0	6.0
TA-14	9/28/2004	*Well goes dry during purging. No sample retrieved.*																						
TA-14	4/14/2005	*Well goes dry during purging. No sample retrieved.*																						
TA-14	9/15/2005	7.44	280	450	30	38	27	1.0	18	14	0.26	210	<5.0	<5.0	210	210	<2.0	-	-	-	-	4.0	<2	-
TA-14	4/26/2006	7.59	280	440	29	38	28	1.0	18	14	0.26	220	<5.0	<5.0	220	210	3.7	-	-	-	-	13	13	13
TA-14	9/11/2006	7.37	260	440	33	34	24	1.3	18	15	0.24	240	<5.0	<5.0	240	180	<2.0	-	-	-	-	2.0	2.0	2.0
TA-14	3/20/2007	*Well is dry. No sample retrieved.*																						
TA-14	9/6/2007	7.30	230	450	29	36	27	1.2	18	15	0.26	210	<5.0	<5.0	210	200	2.3	-	-	-	-	<1.8	<1.8	<1.8
TA-14	3/12/2008	*Well goes dry during purging. No sample retrieved.*																						
TA-14	9/11/2008	*Insufficient water in well. No sample retrieved.*																						
TA-14	9/15/2009	*Insufficient water in well. No sample retrieved.*																						
TA-14	3/22/2010	*Well is dry. No sample retrieved. Biennial sampling conducted in September 2010*																						
TA-14	9/16/2010	7.39	310	530	33	44	36	1.4	23	19	0.22	220	<5.0	<5.0	220	260	<2.0	-	-	-	-	<1.8	<1.8	<1.8
TA-14	4/4/2012	*Insufficient water in well. No sample retrieved.*																						
TA-14	9/12/2012	*Insufficient water in well. No sample retrieved.*																						
TA-14	6/2/2014	*Insufficient water in well. No sample retrieved.*																						
TA-14	10/6/2014	*Insufficient water in well. No sample retrieved (followup attempt).*																						
TA-14	3/27/2015	*Insufficient water in well. No sample retrieved (followup attempt to sample since well water level was too low to sample in 2014)*																						
TA-14	4/13/2016	*Insufficient water in well. No sample retrieved.*																						
TA-14	9/13/2016	*Insufficient water in well. No sample retrieved (followup attempt).*																						
TA-14	4/3/2018	*Insufficient water in well. No sample retrieved.*																						
TA-14	3/31/2020	*Well cassing bent at surface. No sample retrieved.*																						

Table 3
Water Quality – Conventional Constituents
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	pH (standard pH-units)	TDS	EC (µS/cm)	Na	Ca	Mg	K	Cl	SO4	F	Alkalinity HCO3 as CaCO3	Alkalinity CO3 as CaCO3	Alkalinity OH as CaCO3	Alkalinity Total as CaCO3	Total Hardness as CaCO3	NO3 as NO3	NO2 as N	BOD	Total P	MBAS	Coliform Total	Coliform Fecal (MPN/100 mL)	Coliform E. Coli (MPN/100 mL)
MCL[1]		*6.5/8.5*	*500*	*900*					*250*	*250*	2						45	1			*0.5*			
TA-17	Spring '92	7.7	477	618	46.3	37.1	30.7	-	44.8	36.8	0.14	275	ND	ND	275	202	4	-	-	-	ND	-	-	-
TA-25	9/15/2009	7.65	430	730	54	56	42	3.5	55	64	<0.10	270	<5.0	<5.0	270	320	9.7	-	-	-	-	4.5	<1.8	<1.8
TA-25	3/23/2010	7.48	470	800	53	55	44	2.6	48	52	0.13	310	<5.0	<5.0	310	320	7.4	-	-	-	-	<1.8	<1.8	<1.8
TA-25	9/14/2010	7.55	**500**	840	66	68	59	3.1	52	54	0.16	310	<5.0	<5.0	310	410	8.9	-	-	-	-	<1.8	<1.8	<1.8
TA-25	4/7/2011	7.58	460	840	53	61	47	2.4	59	60	0.10	350	<5.0	<5.0	350	350	7.5	-	-	-	-	<1.8	<1.8	<1.8
TA-25	9/15/2011	7.62	**500**	810	65	72	53	2.7	64	57	<0.10	340	<5.0	<5.0	340	400	6.5	-	-	-	-	<1.8	<1.8	<1.8
TA-25	5/1/2012	7.32	480	840	59	67	51	2.8	56	55	0.13	360	<5.0	<5.0	360	380	5.7	-	-	-	-	<1.8	<1.8	<1.8
TA-25	9/12/2012	7.54	**570**	**950**	68	84	61	3.1	66	62	0.18	350	<5.0	<5.0	350	460	8.1	-	-	-	-	<1.8	<1.8	<1.8
TA-25	4/16/2013	7.56	470	840	55	58	49	2.5	57	56	0.15	330	<5.0	<5.0	330	350	11	-	-	-	-	<1.8	<1.8	<1.8
TA-25	6/2/2014	7.75	**520**	**900**	57	65	47	2.6	55	49	0.18	280	<5.0	<5.0	280	360	9.4	-	-	-	-	<1.8	<1.8	<1.8
TA-25	3/26/2015	7.46	**570**	**1,000**	58	66	38	2.1	65	47	0.25	370	<5.0	<5.0	370	320	7.8	-	-	-	-	<1.8	<1.8	<1.8
TA-25	4/13/2016	7.72	**660**	**1,100**	70	95	63	3.1	84	69	0.21	460	<5.0	<5.0	460	500	4.5	-	-	-	-	4.5	<1.8	<1.8
TA-25	4/25/2017	7.32	**660**	**1,300**	80	86	60	3.2	110	73	<0.10	480	<5.0	<5.0	480	460	4.1	-	-	-	-	<1.8	<1.8	<1.8
TA-25	4/5/2018	7.50	**610**	**1,200**	77	91	64	3.8	110	75	<0.10	420	<5.0	<5.0	420	490	4.9	-	-	-	-	<1.8	<1.8	<1.8
TA-25[2]	4/11/2019	7.57	**610**	**1,100**	65	71	51	<5.0	87	90	0.15	380	<5.0	<5.0	380	180	7.2	-	-	-	-	<1.8	<1.8	<1.8
TA-25	3/31/2020	7.71	**580**	**1,000**	62	68	48	3.4	77	100	0.11	330	<5.0	<5.0	330	370	10.6	-	-	-	-	<1.8	<1.8	<1.8
Plant Dom	11/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	-
Stephens	9/16/2009	7.31	**630**	**1,100**	110	71	63	2.9	75	73	<0.10	420	<5.0	<5.0	420	440	40	-	-	-	-	7.8	<1.8	<1.8
Stephens	3/24/2010	7.13	**620**	**1,100**	96	68	57	2.6	68	77	0.12	370	<5.0	<5.0	370	400	36	-	-	-	-	2.0	<1.8	<1.8
Stephens	9/14/2010	7.16	**570**	**900**	93	59	56	2.7	52	53	0.16	340	<5.0	<5.0	340	380	25	-	-	-	-	<1.8	<1.8	<1.8
Stephens	4/7/2011	*Farmers's crop growing around the wellhead; difficult access. No sample retrieved.*												-	-			-	-	-	-	-	-	-
Stephens	9/21/2011	7.35	470	820	81	56	44	2.6	51	50	0.11	300	<5.0	<5.0	300	320	10	-	-	-	-	<1.8	<1.8	<1.8
Stephens	4/5/2012	7.72	**630**	**1,000**	100	80	68	2.1	75	73	0.23	370	<5.0	<5.0	370	480	34	-	-	-	-	<1.8	<1.8	<1.8
Stephens	9/12/2012	7.67	**570**	**990**	110	60	55	3.3	70	59	0.21	350	<5.0	<5.0	350	380	7.7	-	-	-	-	7.8	<1.8	<1.8
Stephens	4/17/2013	7.62	**540**	**980**	82	49	55	2.3	71	64	0.12	340	<5.0	<5.0	340	350	15	-	-	-	-	13	<1.8	<1.8
Stephens	6/2/2014	7.53	**510**	**970**	70	51	47	1.9	58	37	0.19	380	<5.0	<5.0	380	320	2.1	-	-	-	-	2.0	<1.8	<1.8
Stephens	3/26/2015	7.41	**570**	**1,100**	86	52	40	2.0	76	52	0.26	380	<5.0	<5.0	380	290	3.9	-	-	-	-	<1.8	<1.8	<1.8
Stephens	6/22/2016	7.78	**530**	**970**	80	50	44	2.2	65	28	0.26	390	<5.0	<5.0	390	310	1.9	-	-	-	-	<1.8	<1.8	<1.8
Stephens	4/26/2017	7.53	390	840	64	37	43	2.0	51	21	0.12	340	<5.0	<5.0	340	270	2.79	-	-	-	-	<1.8	<1.8	<1.8
Stephens	4/5/2018	7.56	**620**	1,100	83	61	60	3.7	100	77	0.12	390	<5.0	<5.0	390	400	8.1	-	-	-	-	4.5	<1.8	<1.8
Stephens[2,3]	4/16/2019	7.7	490	840	30	34	25	1.6	73	67	<0.10	320	<5.0	<5.0	320	84	<2.0	-	-	-	-	<1.8	<1.8	<1.8
Stephens	3/31/2020	7.69	670	1,200	82	48	60	2.5	110	120	0.13	380	<5.0	<5.0	380	370	<1.8	-	-	-	-	2.0	2.0	<1.8
TA-18	9/11/2012	7.64	340	570	56	41	34	3.1	26	25	0.21	280	<5.0	<5.0	280	240	6.8	-	-	-	-	<1.8	<1.8	<1.8
TA-18	4/16/2013	7.68	410	790	60	47	47	2.5	64	41	0.13	290	<5.0	<5.0	290	190	17	-	-	-	-	<1.8	<1.8	<1.8
TA-18	9/11/2013	7.76	320	630	53	37	33	3.1	34	26	0.12	250	<5.0	<5.0	250	230	4.5	-	-	-	-	<1.8	<1.8	<1.8
TA-18	6/2/2014	*Well is dry. No sample retrieved.*																						
TA-18	10/6/2014	*Well is dry. No sample retrieved.*																						
TA-18	3/26/2015	7.70	470	870	74	57	33	2.1	89	50	0.26	270	<5.0	<5.0	270	310	3.7	-	-	-	-	<1.8	<1.8	<1.8
TA-18	4/14/2016	7.75	320	560	58	31	26	2.1	37	26	0.24	200	<5.0	<5.0	200	180	1.9	-	-	-	-	13	2.0	2.0
TA-18	4/25/2017	7.76	230	460	37	23	21	1.9	19	23	0.18	190	<5.0	<5.0	190	140	<2.0	-	-	-	-	<1.8	<1.8	<1.8
TA-18	4/4/2018	7.73	440	860	61	53	45	2.8	100	50	<0.10	250	<5.0	<5.0	250	320	9.5	-	-	-	-	<1.8	<1.8	<1.8
TA-18[2]	4/15/2019	7.84	260	450	42	23	23	1.9	24	27	0.11	180	<5.0	<5.0	180	59	<2.0	-	-	-	-	2.0	-	2.0
TA-18	3/31/2020	7.82	460	880	59	44	45	2.4	92	46	0.14	270	<5.0	<5.0	270	290	11.9	-	-	-	-	2.0	2.0	2.0
Schwarzgruber	9/11/2012	7.44	420	660	59	58	45	3.3	58	36	0.19	280	<5.0	<5.0	280	330	4.7	-	-	-	-	79	<1.8	<1.8
Schwarzgruber	4/16/2013	7.43	350	670	49	45	40	2.8	50	37	0.11	270	<5.0	<5.0	270	280	7.9	-	-	-	-	<1.8	<1.8	<1.8
Schwarzgruber	9/11/2013	7.51	360	760	53	47	37	2.8	52	38	<0.10	260	<5.0	<5.0	260	270	8.4	-	-	-	-	4.5	<1.8	<1.8
Schwarzgruber	6/2/2014	*Well is dry. No sample retrieved.*																						

Table 3
Water Quality – Conventional Constituents
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	pH (standard pH-units)	TDS	EC (µS/cm)	Na	Ca	Mg	K	Cl	SO4	F	Alkalinity HCO3 as CaCO3	Alkalinity CO3 as CaCO3	Alkalinity OH as CaCO3	Alkalinity Total as CaCO3	Total Hardness as CaCO3	NO3 as NO3	NO2 as N	BOD	Total P	MBAS	Coliform Total (MPN/100 mL)	Coliform Fecal (MPN/100 mL)	Coliform E. Coli (MPN/100 mL)
MCL[1]		*6.5/8.5*	*500*	*900*					*250*	*250*	2						45	1			*0.5*			
Schwarzgruber	10/6/2014	*Well is dry. No sample retrieved.*																						
Schwarzgruber	3/26/2015	7.51	420	770	48	46	31	2.1	55	34	0.24	270	<5.0	<5.0	270	250	10	-	-	-	-	<1.8	<1.8	<1.8
Schwarzgruber	4/14/2016	7.41	410	740	54	51	38	3.1	61	39	0.22	240	<5.0	<5.0	240	280	8.5	-	-	-	-	33	33	33
Schwarzgruber	4/25/2017	7.48	300	570	38	32	26	2.5	34	28	<0.10	200	<5.0	<5.0	200	190	8.1	-	-	-	-	2.0	<1.8	<1.8
Schwarzgruber	4/4/2018	7.62	320	640	46	41	31	2.5	50	33	<0.10	230	<5.0	<5.0	230	230	9.0	-	-	-	-	<1.8	<1.8	<1.8
Schwarzgruber[2]	4/16/2019	7.18	300	550	31	34	25	1.6	39	39	<0.10	190	<5.0	<5.0	190	84	10.8	-	-	-	-	33	-	<1.8
Schwarzgruber	3/30/2020	7.80	360	660	46	36	31	2.2	64	40	0.20	210	<5.0	<5.0	210	220	4.2	-	-	-	-	1600	920	350
Rodgers Dom (N)	9/11/2012	7.47	420	720	57	56	43	3.0	49	35	0.17	320	<5.0	<5.0	320	320	10	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom (N)	6/2/2014	7.80	440	800	56	51	41	2.9	46	36	0.12	290	<5.0	<5.0	290	300	13	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom (N)	3/26/2015	7.61	440	810	50	47	32	2.1	53	39	0.25	290	<5.0	<5.0	290	250	11	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom (N)	4/25/2017	7.62	330	680	51	40	32	2.8	47	33	0.16	260	<5.0	<5.0	260	230	7.9	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom (N)	4/4/2018	7.76	370	640	49	41	31	2.4	44	35	<0.10	240	<5.0	<5.0	240	230	6.7	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom (N)[2]	4/15/2019	7.72	360	680	56	42	35	2.7	46	35	<0.10	260	<5.0	<5.0	260	110	7.65	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)	9/11/2012	7.51	440	740	61	57	44	3.1	56	37	0.18	250	<5.0	<5.0	250	320	11	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)	6/2/2014	7.59	440	790	58	53	42	2.7	48	37	0.14	290	<5.0	<5.0	290	300	14	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)	3/26/2015	7.62	470	850	54	49	33	2.1	60	37	0.25	310	<5.0	<5.0	310	260	12	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)	4/25/2017	7.66	380	660	57	39	31	2.7	17	30	0.16	300	<5.0	<5.0	300	230	3.7	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)[2]	4/15/2019	7.78	370	700	60	42	35	3.8	46	35	0.12	270	<5.0	<5.0	270	100	7.2	-	-	-	-	<1.8	<1.8	<1.8
Rodgers Dom New (S)	4/3/2020	7.60	350	620	45	34	28	3.3	37	33	0.18	250	<5.0	<5.0	250	200	9.7	-	-	-	-	<1.8	<1.8	<1.8
Muller Pond	5/6/2004	**8.79**	300	560	43	20	35	2.7	45	40	0.19	170	34	ND	200	190	3.1	-	-	-	-	240	22	8.0
Muller Pond	4/14/2005	8.47	360	580	44	38	40	2.3	48	40	0.15	230	8.8	<5.0	240	260	3.8	-	-	-	-	900	50	50
Muller Pond	9/15/2005	*Pond is Dry. No sample retrieved.*																						
Muller Pond	3/29/2006	8.30	280	500	37	36	31	2.2	28	26	0.15	210	<5.0	<5.0	210	220	6.2	-	-	-	-	80	8.0	-
Muller Pond	9/11/2006	**8.61**	320	550	56	25	37	3.6	36	36	0.17	270	<5.0	<5.0	270	210	<2.0	-	-	-	-	240	240	240
Muller Pond	3/20/2007	8.23	340	670	48	39	43	2.9	50	38	0.12	250	<5.0	<5.0	250	280	6.2	-	-	-	-	350	14	14
Muller Pond	9/7/2007	**8.89**	460	820	88	8.5	63	4.9	83	51	0.24	210	68	<5.0	280	280	<2.0	-	-	-	-	79	27	22
Muller Pond	3/11/2008	8.34	310	570	40	36	33	2.1	40	31	0.16	200	<5.0	<5.0	200	230	9.7	-	-	-	-	130	2.0	2.0
Muller Pond	9/11/2008	*Pond is Dry. No sample retrieved.*																						
Muller Pond	3/17/2009	8.45	430	760	50	38	40	2.3	66	42	0.16	240	13	<5.0	260	260	16					220	2.0	2.0
Muller Pond	9/16/2009	*Pond is Dry. No sample retrieved.*																						
Muller Pond	3/25/2010	**8.66**	260	620	47	33	43	3.0	49	38	0.12	190	22	<5.0	220	260	<2.0	-	-	-	-	1,600	46	33
Muller Pond	9/15/2010	**9.60**	370	690	94	4.6	44	2.6	80	43	0.14	78	110	<5.0	190	190	<2.0	-	-	-	-	920	280	350
Muller Pond	4/4/2012	8.37	400	680	65	41	52	2.7	74	37	0.16	240	<5.0	<5.0	240	320	4.0	-	<3.0	<0.050		540	350	79
Muller Pond	9/12/2012	*Pond is Dry. No sample retrieved.*																						
Muller Pond	6/4/2014	*Pond is Dry. No sample retrieved.*																						
Muller Pond	10/6/2014	*Pond is Dry. No sample retrieved.*																						
Muller Pond	3/27/2015	*Pond is Dry. No sample retrieved (followup attempt to sample since pond was dry in 2014).*																						
Muller Pond	4/13/2016	7.77	360	660	53	35	32	4.4	50	28	0.22	230	<5.0	<5.0	230	220	<1.8	-	<3.0	0.23	<0.10	>1,600	>1,600	>1,600
Muller Pond	4/3/2018	8.21	**640**	**1000**	50	64	74	9.7	58	150	<0.10	350	<5.0	<5.0	350	470	<1.8	-	16	0.20	-	>1,600	170	<1.8
Muller Pond	3/30/2020	**8.69**	390	740	52	29	40	2.6	83	48	0.15	180	30	<5.0	210	240	<1.8	-	<3.0	<0.050	<0.10	1,600	46	33
Coors Pond	9/7/2007	**8.67**	**660**	**1,000**	100	19	100	1.6	38	75	0.64	450	83	<5.0	540	480	<2.0	-	-	-	-	110	33	33
Coors Pond	3/11/2008	**8.60**	300	530	40	26	43	<1.0	12	25	0.52	230	30	<5.0	260	240	3.3	-	-	-	-	4.0	2.0	2.0
Coors Pond	9/11/2008	**8.52**	**650**	**1,100**	110	28	94	<1.0	38	63	0.79	490	44	<5.0	530	460	3.4	-	-	-	-	79	79	26
Coors Pond	3/17/2009	**8.93**	410	690	66	17	48	<1.0	27	49	0.52	210	110	<5.0	310	240	<2.0	-	-	-	-	23	<1.8	<1.8
Coors Pond	9/16/2009	**8.63**	**720**	**1,200**	150	19	110	<1.0	44	84	0.65	550	44	<5.0	590	480	2.0	-	-	-	-	79	33	33
Coors Pond	3/25/2010	**8.85**	280	690	76	20	54	<1.0	25	42	0.49	250	51	<5.0	300	270	<2.0	-	-	-	-	4.5	<1.8	<1.8
Coors Pond	9/15/2010	**8.70**	**790**	**1,300**	130	16	120	<1.0	38	78	0.68	550	110	<5.0	660	550	<2.0	-	-	-	-	31	13	13
Coors Pond	4/6/2011	**8.80**	**530**	**910**	90	20	90	<1.0	35	58	0.40	370	79	<5.0	450	420	<2.0	-	-	-	-	7.8	<1.8	<1.8

Table 3
Water Quality – Conventional Constituents
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	pH (standard pH-units)	TDS	EC (µS/cm)	Na	Ca	Mg	K	Cl	SO4	F	Alkalinity HCO3 as CaCO3	Alkalinity CO3 as CaCO3	Alkalinity OH as CaCO3	Alkalinity Total as CaCO3	Total Hardness as CaCO3	NO3 as NO3	NO2 as N	BOD	Total P	MBAS	Coliform Total (MPN/100 mL)	Coliform Fecal (MPN/100 mL)	Coliform E. Coli (MPN/100 mL)
MCL[1]		*6.5/8.5*	*500*	*900*					*250*	*250*	2						45	1			*0.5*			
Coors Pond	9/12/2011	**8.89**	**830**	**1,300**	150	13	130	<1.0	45	88	0.65	490	140	<5.0	630	570	<2.0	-	-	-	-	170	6.8	6.8
Coors Pond	3/29/2012	8.49	**770**	**1,300**	130	27	110	<1.0	45	78	0.59	560	48	<5.0	610	530	<2.0	-	-	-	-	25	<1.8	<1.8
Coors Pond	9/10/2012	8.28	**900**	**1,500**	150	38	120	<1.0	47	67	0.78	710	84	<5.0	790	600	<2.0	-	-	-	-	>1600	920	280
Coors Pond	4/17/2013	8.36	**500**	**900**	82	33	67	1.5	29	39	0.41	410	21	<5.0	440	360	<2.0	-	-	-	-	110	33	33
Coors Pond	9/11/2013	**8.74**	**760**	**1,300**	130	17	120	<1.0	44	63	0.56	520	88	<5.0	600	530	<2.0	-	-	-	-	>1600	170	70
Coors Pond	6/2/2014	**8.97**	**790**	**1,400**	130	15	110	<1.0	44	63	0.66	230	66	<5.0	300	480	<2.0	-	-	-	-	170	33	33
Coors Pond	10/6/2014	**9.03**	**910**	**1,600**	150	16	130	2.5	59	72	0.74	610	170	<5.0	790	560	<2.0	-	-	-	-	540	23	13
Coors Pond	3/27/2015	*Wet-pit filled in. No sample retrieved, or to be retrieved in future.*																						
Storz Pond	4/6/2011	8.17	490	870	76	55	51	2.3	59	56	0.10	330	<5.0	<5.0	330	350	24	-	-	-	-	23	2.0	2.0
Storz Pond	9/12/2011	**8.95**	420	740	80	22	57	2.4	54	50	<0.10	230	48	<5.0	280	290	<2.0	-	-	-	-	540	6.8	4.5
Storz Pond	3/29/2012	7.97	**670**	**1,100**	93	66	63	2.6	75	73	0.19	420	<5.0	<5.0	420	420	35	-	-	-	-	70	7.8	7.8
Storz Pond	9/10/2012	7.95	**590**	**980**	81	48	55	2.4	62	57	0.16	420	<5.0	<5.0	420	340	11	-	-	-	-	22	<1.8	<1.8
Storz Pond	4/17/2013	8.14	**520**	**940**	85	42	57	2.2	61	55	0.11	380	<5.0	<5.0	380	340	13	-	-	-	-	350	4.0	4.0
Storz Pond	9/11/2013	**8.99**	460	870	94	16	53	1.9	77	52	<0.10	200	69	<5.0	270	260	<2.0	-	-	-	-	220	110	110
Storz Pond	6/2/2014	**9.28**	440	780	77	12	55	<1.0	63	42	0.11	200	90	<5.0	290	260	<2.0	-	-	-	-	140	17	17
Storz Pond	10/6/2014	7.72	**540**	**1,000**	83	50	49	3.0	73	51	0.16	350	<5.0	<5.0	350	330	5.1	-	-	-	-	140	17	6.8
Storz Pond	3/26/2015	7.59	**600**	**1,100**	87	54	43	1.4	83	52	0.27	400	<5.0	<5.0	400	320	<2.0	-	-	-	-	430	13	13
Storz Pond	10/28/2015	**8.83**	480	890	86	9	48	1.7	70	37	<0.10	250	49	<5.0	300	220	<2.0	-	-	-	-	23	<1.8	<1.8
Storz Pond	4/13/2016	8.12	440	870	69	36	47	2.4	61	40	0.18	350	<5.0	<5.0	350	280	<1.8	-	-	-	-	>1,600	49	49
Storz Pond	9/13/2016	**9.2**	460	800	93	12	53	2.1	72	36	0.22	190	110	<5.0	300	250	<2.0	-	-	-	-	130	33	33
Storz Pond	4/25/2017	8.47	360	700	59	34	36	3.2	52	42	0.17	190	33	<5.0	220	230	2.6	-	-	-	-	17	2.0	2.0
Storz Pond	10/4/2017	**8.64**	**530**	**990**	88	25	57	3.2	100	87	<0.10	300	25	<5.0	320	300	<0.5	-	-	-	-	49	17.0	4.5
Storz Pond	4/5/2018	8.47	**560**	**1,000**	85	38	62	3.1	100	78	<0.10	360	<5.0	<5.0	360	350	6.8	-	-	-	-	79	4.5	4.5
Storz Pond	9/19/2018	**8.88**	**580**	**990**	130	12	69	2.9	120	76	<0.10	320	49	<5.0	370	310	<1.8	-	-	-	-	170	13	13
Storz Pond[2]	4/11/2019	**8.51**	**500**	870	74	40	42	<5.0	66	64	<0.10	300	7.6	<5.0	310	99	13.1	-	-	-	-	540	-	49
Storz Pond[4]	10/10/2019	**8.61**	**650**	**1,000**	100	27	58	2.8	100	96	<0.10	110	29	<5.0	140	310	8.1	-	-	-	-	170	17	17
Storz Pond	3/30/2020	8.47	**640**	**1,200**	100	41	57	2.8	110	110	<0.10	350	20	<5.0	370	340	32.3	-	-	-	-	540	4.0	2.0
Storz Pond	9/15/2020	**8.98**	**640**	**1,000**	110	16	65	4.3	110	120	<0.10	210	130	<5.0	340	310	6.2	-	-	-	-	220	33	33

Beginning in 2005, all non-detected (ND) values are given as "<reporting limit".

1. Maximum Contaminant Levels for drinking water standards; *italic font style* indicates secondary, i.e., consumer acceptance limits. For EC, TDS, chloride, and sulfate, the recommended (lower) values are given. Measured constituent concentrations at or exceeding the MCL are highlighted with bold font style.
2. April 2019 questionable results (concentrations substantially different from historical ranges) are shaded in table.
3. Cation anion balance 52%.
4. October 2019 questionable result (Total Alkalinity substantially different from historical range) from Storz Pond are shaded in table.

Table 4
Water Quality – Metals and Organics
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	Ag	Al	As	Ba	Cd	Cr	Cu	Fe	Hg	Mn	Pb	Se	Zn	Turbidity (NTU)	EPA 502.2[2] (µg/L)	EPA 8260[3] (µg/L)	EPA 8310[4] (µg/L)	EPA 8141A[5] (µg/L)	EPA 8151A[6] (µg/L)	TPH-Diesel[7] (µg/L)	TPH-MO[7] (µg/L)	BTEX EPA 8260B[8] (µg/L)
MCL[1]		*0.1*	1	0.05	1	0.005	0.05	*1*	*0.3*	0.002	*0.05*	0.05	0.05	*5*	*5*								
TA-1A	9/16/2005	-	<0.050	<0.0050	0.230	<0.010	0.012	<0.010	<0.100	<0.00020	<0.020	<0.0050	0.0050	<0.020	**28**	-	-	-	<0.3 - <5	<0.13 - <0.5	880	330[9]	<0.50
TA-1A	1/11/2006	-	<0.050	<0.0050	0.230	<0.010	0.013	<0.010	<0.100	<0.00020	**0.058**	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.3 - <5	<0.50 - <5.0	<50[10]	<100	<0.50
TA-1A	3/28/2006	-	<0.050	<0.0050	0.230	<0.010	<0.010	<0.010	<0.100	<0.00020	**0.055**	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.3 - <5	<0.13 - <0.25	<50	<100	<0.50
TA-1A	9/5/2006	-	<0.050	<0.0050	0.240	<0.010	**0.095**	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	3/19/2007	-	<0.050	<0.0050	0.220	<0.010	0.018	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	9/5/2007	-	<0.050	<0.0050	0.170	<0.010	<0.010	<0.010	0.210	<0.00020	**0.062**	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	3/10/2008	-	<0.050	<0.0050	0.180	<0.010	0.018	<0.010	<0.100	<0.00020	**0.059**	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	9/11/2008	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	<0.100	<0.00020	0.037	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	9/15/2009	-	0.120	<0.0050	0.190	<0.010	<0.010	<0.010	0.140	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**5.8**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	3/24/2010	-	<0.050	<0.0050	0.150	<0.010	<0.010	<0.010	<0.100	<0.00020	0.031	<0.0050	<0.0050	<0.020	0.51	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	4/7/2011	-	<0.050	<0.0050	0.200	<0.010	<0.010	<0.010	0.160	<0.00020	**0.190**	<0.0050	<0.0050	<0.020	0.98	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	5/1/2012	-	<0.050	<0.0050	0.230	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.2	<0.2 - <250	<50	<50	<0.50 - 1.6[17a]
TA-1A	6/6/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50 - <1.0[17b]
TA-1A	4/16/2013	-	<0.050	<0.0050	0.190	<0.010	0.010	<0.010	0.150	<0.00020	**0.130**	<0.0050	<0.0050	<0.020	0.93	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	6/3/2014	-	<0.050	<0.0050	0.260	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.074	0.90	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-1A	3/27/2015	*No metals or organics analyses required under post-reclamation conditions; turbidity not analyzed*													-								
TA-1A	4/26/2017	*No metals or organics analyses required under post-reclamation conditions*													19								
TA-1A	4/11/2019	*No metals or organics analyses required under post-reclamation conditions*													0.33								
TA-3A	9/16/2005	-	<0.050	<0.0050	0.140	<0.010	0.046	0.011	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**170**	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
TA-3A	3/28/2006	*Well goes dry during purging. No sample retrieved.*																					
TA-3A	9/5/2006	*Well goes dry during purging. No sample retrieved.*																					
TA-3A	9/6/2007	-	0.200	<0.0050	0.280	<0.010	0.030	0.012	0.290	<0.00020	<0.020	<0.0050	<0.0050	0.028	**12**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	11/6/1995	ND	ND	ND	0.21	ND	ND	ND	ND	ND	0.003	ND	ND	ND	0.9	-	ND	-	ND	ND	ND	-	ND
TA-5A	3/19/2007	-	0.053	<0.0050	0.220	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.5	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	3/10/2008	-	0.054	<0.0050	0.210	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.2	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	9/11/2008	-	0.076	<0.0050	0.200	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.4	-	-	-	<0.05 - <0.1	2.1[11]	<50	<50	<0.50 - <1.0
TA-5A	9/15/2009	-	<0.050	<0.0050	0.220	<0.010	0.013	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.9	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	3/24/2010	-	<0.050	<0.0050	0.200	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	4/7/2011	-	0.110	<0.0050	0.180	<0.010	0.017	<0.010	0.130	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	5/1/2012	-	0.074	<0.0050	0.180	<0.010	0.016	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.70	-	-	-	<0.05 - <0.2	<0.2 - <250	<50	<50	<0.50 - 0.71[17a]
TA-5A	6/6/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50 - <1.0[17b]
TA-5A	4/16/2013	-	0.08	<0.0050	0.200	<0.010	0.011	0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.73	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	6/3/2014	-	0.99	<0.0050	0.220	<0.010	0.016	<0.010	2.100	<0.00020	0.033	<0.0050	<0.0050	0.076	13	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-5A	3/27/2015	*No metals or organics analyses required under post-reclamation conditions; turbidity not analyzed*													-								
TA-5A	4/26/2017	*No metals or organics analyses required under post-reclamation conditions*													1.9								
TA-5A	4/11/2019	*No metals or organics analyses required under post-reclamation conditions*													2.3								
TA-9R	Spring '92	ND	0.16	ND	0.31	ND	ND	ND	0.21	ND	ND	ND	ND	ND	-	N.D.	-	-	-	-	-	-	-
TA-9R	11/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	-	ND	ND	ND	-	ND
TA-13A	11/7/1995	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	-	ND	-	ND	ND	ND	-	ND
TA-13A	7/23/1997	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	-	-	-	ND	ND	ND	ND	ND
TA-13A	3/5/1998	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	0.022	-	-	-	-	ND	ND	ND	ND	ND
TA-13A	9/29/1998	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	-	-	-	ND	ND	ND	ND	ND
TA-13A	4/29/1999	ND	ND	ND	0.14	ND	ND	ND	ND	ND	0.043	ND	ND	ND	-	-	-	-	ND	ND	ND	ND	ND
TA-13A	4/19/2000	-	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	-	-	-	ND	ND	ND	ND	ND
TA-13A	5/7/2001	-	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND
TA-13A	5/7/2002	-	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND
TA-13A	4/9/2003	-	ND	ND	0.160	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	-	-	-	ND	ND	ND	ND	ND
TA-13A	9/15/2003	-	ND	ND	0.120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND
TA-13A	4/14/2004	-	ND	ND	0.140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND
TA-13A	9/28/2004	-	ND	ND	0.170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND

Table 4
Water Quality – Metals and Organics
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	Ag	Al	As	Ba	Cd	Cr	Cu	Fe	Hg	Mn	Pb	Se	Zn	Turbidity (NTU)	EPA 502.2[2] (µg/L)	EPA 8260[3] (µg/L)	EPA 8310[4] (µg/L)	EPA 8141A[5] (µg/L)	EPA 8151A[6] (µg/L)	TPH-Diesel[7] (µg/L)	TPH-MO[7] (µg/L)	BTEX EPA 8260B[8] (µg/L)
MCL[1]		*0.1*	1	0.05	1	0.005	0.05	*1*	*0.3*	0.002	*0.05*	0.05	0.05	*5*	*5*								
TA-13A	4/14/2005	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
TA-13A	9/15/2005	-	<0.050	<0.0050	0.160	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
TA-13A	3/28/2006	-	<0.050	<0.0050	0.110	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.3 - <5	<0.13 - <0.25	<50	<100	<0.50
TA-13A	9/11/2006	-	<0.050	<0.0050	0.180	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.1	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	**390**	<0.50 - <1.0
TA-13A	9/28/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-
TA-13A	3/20/2007	-	<0.050	<0.0050	0.150	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.100	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-13A	9/5/2007	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-13A	3/12/2008	-	<0.050	<0.0050	0.130	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-13A	9/15/2009	*Insufficient water in well. No sample retrieved.*																					
TA-13A	3/23/2010	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-13A	4/4/2012	*No metals or organics analyses required under post-reclamation conditions*																					
TA-14	33664	ND	0.54	ND	0.16	ND	0.03	ND	**0.63**	ND	ND	ND	ND	ND	-	ND	-	-	-	-	-	-	-
TA-14	7/23/1997	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	0.018	**85**	-	-	-	ND	ND	ND	ND	ND
TA-14	3/5/1998	ND	**14**	0.003	0.23	ND	**0.095**	0.026	**14**	ND	**0.24**	0.028	ND	0.046	-	-	-	-	ND	ND	ND	ND	ND
TA-14	9/29/1998	ND	0.89	ND	0.13	ND	0.01	ND	**0.89**	ND	ND	ND	ND	0.01	**18**	-	-	-	ND	ND	ND	ND	ND
TA-14	4/29/1999	ND	0.21	ND	0.14	ND	ND	ND	**0.31**	ND	0.021	ND	ND	0.015	-	-	-	-	ND	ND	ND	ND	ND
TA-14	9/14/1999	ND	0.81	ND	0.12	ND	ND	ND	**1.3**	ND	**0.055**	ND	ND	ND	-	-	-	-	ND	ND	ND	ND	ND
TA-14	4/19/2000	-	0.86	ND	0.11	ND	0.023	ND	**1.8**	ND	0.025	ND	ND	ND	**30**	-	-	-	ND	ND	ND	ND	ND
TA-14	9/19/2000	ND	0.36	ND	0.14	ND	ND	ND	**0.92**	ND	**0.051**	0.0059	ND	ND	**82**	-	-	-	ND	ND	ND	ND	ND
TA-14	5/7/2001	-	0.62	ND	0.15	ND	0.03	ND	0.14	ND	0.1	0.022	ND	ND	**37**	-	-	-	ND	ND	ND	ND	ND
TA-14	9/20/2001	-	0.073	ND	0.11	ND	ND	ND	0.22	ND	ND	ND	ND	ND	**20**	-	-	-	ND	ND	ND	ND	ND
TA-14	5/7/2002	-	**1.3**	ND	0.13	ND	0.014	ND	**1.6**	ND	**0.077**	ND	ND	ND	**31**	-	-	-	ND	ND	ND	ND	ND
TA-14	9/25/2002	-	0.31	ND	0.13	ND	ND	ND	**0.45**	ND	0.032	ND	ND	0.02	**20**	-	-	-	ND	ND	ND	ND	ND
TA-14	9/15/2003	-	**1.20**	ND	0.130	ND	0.027	0.029	**2.10**	ND	**0.110**	0.015	ND	0.032	**21**	-	-	-	ND	ND	ND	ND	ND
TA-14	4/14/2004	-	0.250	ND	0.130	ND	ND	ND	**0.410**	ND	0.021	ND	ND	ND	2.2	-	-	-	ND	ND	ND	ND	ND
TA-14	9/28/2004	*Well goes dry during purging. No sample retrieved.*																					
TA-14	4/14/2005	*Well goes dry during purging. No sample retrieved.*																					
TA-14	9/15/2005	-	<0.050	<0.0050	0.130	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**320**	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
TA-14	4/26/2006	-	**1.60**	<0.0050	0.160	<0.010	<0.010	<0.010	**1.40**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**87**	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
TA-14	9/11/2006	-	0.920	<0.0050	0.160	<0.010	<0.010	<0.010	**1.00**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**15**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	**290**	<0.50 - <1.0
TA-14	9/28/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-
TA-14	3/20/2007	*Well is dry. No sample retrieved.*																					
TA-14	9/6/2007	-	**2.00**	0.0096	0.140	<0.010	0.014	<0.010	**2.00**	<0.00020	**0.051**	<0.0050	<0.0050	<0.020	**280**	-	-	-	0.28[12]	<0.2 - <250	<50	**270**	<0.50 - <1.0
TA-14	3/12/2008	*Well goes dry during purging. No sample retrieved.*																					
TA-14	9/11/2008	*Insufficient water in well. No sample retrieved.*																					
TA-14	9/15/2009	*Insufficient water in well. No sample retrieved.*																					
TA-14	3/22/2010	*Well is dry. No sample retrieved. Biennial sampling conducted in September 2010*																					
TA-14	9/16/2010	-	0.18	<0.0050	0.150	<0.010	<0.010	<0.010	0.240	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**14**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-14	4/4/2012	*No metals or organicsanalyses required under post-reclamation conditions.*																					
TA-17	Spring '92	ND	**1.1**	ND	0.15	ND	ND	ND	**1.5**	ND	0.022	ND	ND	ND	-	ND	-	-	-	-	-	-	-
TA-25	9/15/2009	-	0.410	<0.0050	0.110	<0.010	0.014	<0.010	**0.560**	<0.00020	0.031	<0.0050	<0.0050	<0.020	**40**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	3/23/2010	-	0.180	<0.0050	0.150	<0.010	<0.010	<0.010	0.210	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**7.6**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	9/14/2010	-	0.065	<0.0050	0.220	<0.010	0.040	<0.010	0.210	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**35**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50[14]	<50	<0.50 - <1.0
TA-25	4/7/2011	-	<0.050	<0.0050	0.200	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.55	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	9/15/2011	-	0.150	<0.0050	0.260	<0.010	<0.010	<0.010	0.220	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.7	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	5/1/2012	-	0.240	<0.0050	0.210	<0.010	<0.010	<0.010	0.250	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.8	-	-	-	<0.05 - <0.2	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	9/10/2012	-	0.480	<0.0050	0.220	<0.010	<0.010	<0.010	**0.700**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**40**	-	-	-	<0.05 - <0.1	<0.2 - <250	57[18a]	<50	<0.50 - <1.0
TA-25	9/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	310[18a]	-	-
TA-25	9/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50[18b]	-	-
TA-25	4/16/2013	-	<0.050	<0.0050	<0.020	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	6/2/2014	-	<0.050	<0.0050	0.220	<0.0005	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0

Table 4
Water Quality – Metals and Organics
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	Ag	Al	As	Ba	Cd	Cr	Cu	Fe	Hg	Mn	Pb	Se	Zn	Turbidity (NTU)	EPA 502.2[2] (µg/L)	EPA 8260[3] (µg/L)	EPA 8310[4] (µg/L)	EPA 8141A[5] (µg/L)	EPA 8151A[6] (µg/L)	TPH-Diesel[7] (µg/L)	TPH-MO[7] (µg/L)	BTEX EPA 8260B[8] (µg/L)
MCL[1]		*0.1*	1	0.05	1	0.005	0.05	*1*	*0.3*	0.002	*0.05*	0.05	0.05	*5*	*5*								
TA-25	3/26/2015	-	0.890	<0.0050	0.220	<0.010	<0.010	<0.010	**0.820**	<0.00020	<0.020	<0.0050	<0.0050	0.030	**93**	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0
TA-25	4/13/2016	-	0.150	<0.0020	0.290	<0.010	<0.010	<0.010	0.240	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**18**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	4/25/2017	-	0.170	<0.0050	0.270	<0.010	<0.010	<0.010	0.170	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.6	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-25	4/5/2018	-	0.220	<0.0020	0.240	<0.010	<0.010	<0.010	0.280	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**200**	-	-	-	<0.05 - <0.12	<0.22 - <280	<50	<50	<0.50 - <1.0
TA-25	4/11/2019	-	0.250	<0.0050	0.240	<0.010	<0.010	<0.010	0.250	<0.00020	<0.020	<0.0050	<0.0050	<0.020	4	-	-	-	<0.05 - <0.12	<0.22 - <290	<50	<50	<0.50 - <1.0
TA-25	3/31/2020	-	0.290	<0.0020	0.200	<0.010	<0.010	<0.010	0.240	<0.00020	<0.010	<0.0050	<0.0050	<0.020	2.8	-	-	-	<0.067 - < 0.13	<0.25 - <310	<50	<50	<0.50 - <1.0
Plant Dom	11/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	ND	ND	ND	ND	-	ND
Plant Pond	Summer '95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
Stephens	9/16/2009	-	<0.050	<0.0050	0.320	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.54	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	3/24/2010	-	<0.050	<0.0050	0.270	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	9/14/2010	-	<0.050	<0.0050	0.240	<0.010	0.030	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50[14]	<50	<0.50 - <1.0
Stephens	4/7/2011	*Farmers's crop growing around the wellhead; difficult access. No sample retrieved.*											-	-	-	-	-	-	-	-	-	-	-
Stephens	9/21/2011	-	<0.050	<0.0050	0.220	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	4/5/2012	-	<0.050	<0.0050	0.240	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.64	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	9/12/2012	-	<0.050	<0.0050	0.230	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	4/17/2013	-	<0.050	<0.0050	0.170	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	6/2/2014	-	<0.050	<0.0050	0.190	<0.0005	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	3/26/2015	-	<0.050	<0.0050	0.200	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.54	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0
Stephens	6/22/2016	-	<0.050	<0.0020	0.220	<0.010	<0.010	<0.010	<0.100	<0.001	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	4/26/2017	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	<0.100	<0.00020	**0.061**	<0.0050	<0.0050	<0.020	0.56	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	170[21]	<0.50 - <1.0
Stephens	4/5/2018	-	<0.050	<0.0020	0.240	<0.010	<0.010	<0.010	<0.100	<0.00020	**0.540**	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.12	<0.2 - <250	<50	<50	<0.50 - <1.0
Stephens	4/16/2019	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.31	-	-	-	<0.05 - <2.7	<0.2 - <280	<50	<50	<0.50 - <1.0
Stephens	3/31/2020	-	<0.050	<0.0020	0.230	<0.010	<0.010	<0.010	0.190	<0.00020	**0.860**	<0.0050	<0.0050	<0.020	1.3	-	-	-	<0.05 - <0.1	<0.22 - < 280	<50	<50	<0.50 - <1.0
TA-18	9/11/2012	-	0.065	<0.0050	0.130	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	4/16/2013	-	0.76	<0.0050	0.150	<0.010	0.010	<0.010	**0.840**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	4.2	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	9/11/2013	-	0.66	<0.0050	0.120	<0.010	0.010	<0.010	**1.100**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**28**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	6/2/2014	*Well is dry. No sample retrieved.*																					
TA-18	10/6/2014	*Well is dry. No sample retrieved.*																					
TA-18	3/26/2015	-	0.810	<0.0050	0.140	<0.010	<0.010	<0.010	**0.750**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**27**	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0
TA-18	4/14/2016	-	<0.050	<0.0020	0.093	<0.010	<0.010	<0.010	**0.310**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	4/25/2017	-	<0.050	<0.0050	0.080	<0.010	<0.010	<0.010	**0.110**	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.5	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	4/4/2018	-	<0.050	<0.0020	0.160	<0.010	<0.010	<0.010	0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.9	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
TA-18	4/15/2019	-	<0.050	<0.0050	0.091	<0.010	<0.010	<0.010	0.110	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.84	-	-	-	<0.05 - <2.8	<1.5 - <760	<50	<50	<0.50 - <1.0
TA-18	3/31/2020	-	0.12	<0.0020	0.150	<0.010	<0.010	<0.010	0.250	<0.00020	<0.010	<0.0050	<0.0050	<0.020	2.7	-	-	-	<0.058 - <0.12	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	9/11/2012	-	<0.050	<0.0050	0.190	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	4/16/2013	-	<0.050	<0.0050	0.160	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	9/11/2013	-	<0.050	<0.0050	0.150	<0.010	0.010	<0.010	0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.97	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	6/2/2014	*Well is dry. No sample retrieved.*																					
Schwarzgruber	10/6/2014	*Well is dry. No sample retrieved.*																					
Schwarzgruber	3/26/2015	-	<0.050	<0.0050	0.160	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0
Schwarzgruber	4/14/2016	-	<0.050	<0.0020	0.180	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.60	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	4/25/2017	-	<0.050	<0.0050	0.130	<0.010	<0.010	<0.010	0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.52	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	4/4/2018	-	0.14	<0.0020	0.130	<0.010	<0.010	<0.010	0.230	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**6.4**	-	-	-	<0.05 - <0.1	<0.2 - <350	<50	<50	<0.50 - <1.0
Schwarzgruber	4/16/2019	-	<0.050	<0.0050	0.140	<0.010	<0.010	<0.010	0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.4	-	-	-	<0.05 - <2.7	<0.2 - <250	<50	<50	<0.50 - <1.0
Schwarzgruber	3/30/2020	-	0.089	<0.0020	0.130	<0.010	<0.010	<0.010	0.120	<0.00020	<0.010	<0.0050	<0.0050	<0.020	1.2	-	-	-	<0.058 - <0.12	<0.24 - <300	<50	<50	<0.50 - <1.0
Rodgers Dom (N)	9/11/2012	-	<0.050	<0.0050	0.180	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom (N)	6/2/2014	-	<0.050	<0.0050	0.170	<0.0005	<0.010	0.013	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.028	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom (N)	3/26/2015	-	<0.050	<0.0050	0.160	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.075	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0

Table 4
Water Quality – Metals and Organics
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	Ag	Al	As	Ba	Cd	Cr	Cu	Fe	Hg	Mn	Pb	Se	Zn	Turbidity (NTU)	EPA 502.2[2] (µg/L)	EPA 8260[3] (µg/L)	EPA 8310[4] (µg/L)	EPA 8141A[5] (µg/L)	EPA 8151A[6] (µg/L)	TPH-Diesel[7] (µg/L)	TPH-MO[7] (µg/L)	BTEX EPA 8260B[8] (µg/L)
MCL[1]		*0.1*	1	0.05	1	0.005	0.05	*1*	*0.3*	0.002	*0.05*	0.05	0.05	*5*	*5*								
Rodgers Dom (N)	4/25/2017	-	<0.050	<0.0050	0.150	<0.010	<0.010	0.068	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.140	0.63	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom (N)	4/4/2018	-	<0.050	<0.0020	0.130	<0.010	<0.010	0.033	<0.100	<0.00020	<0.020	0.013	<0.0050	0.200	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <370	<50	<50	<0.50 - <1.0
Rodgers Dom (N)	4/15/2019	-	<0.050	<0.0050	0.160	<0.010	<0.010	0.140	0.12	<0.00020	<0.020	<0.0050	<0.0050	0.035	0.69	-	-	-	<0.05 - <2.8	<0.3 - <360	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	9/11/2012	-	<0.050	<0.0050	0.180	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	6/2/2014	-	<0.050	<0.0050	0.180	<0.0005	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.040	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	3/26/2015	-	<0.050	<0.0050	0.160	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	<10	<0.50 - <1.0
Rodgers Dom New (S)	4/25/2017	-	<0.050	<0.0050	0.150	<0.010	<0.010	0.014	<0.100	<0.00020	<0.020	<0.0050	<0.0050	0.021	3.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	4/4/2018	-	<0.050	<0.0020	0.130	<0.010	<0.010	0.011	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <340	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	4/15/2019	-	<0.050	<0.0050	0.160	<0.010	<0.010	0.027	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.10	-	-	-	<0.06 - <3.2	<0.3 - <360	<50	<50	<0.50 - <1.0
Rodgers Dom New (S)	4/3/2020	-	<0.050	<0.0020	0.120	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.010	<0.0050	<0.0050	<0.020	0.6	-	-	-	<0.06 - <0.11	<0.24 - <310	<50	<50	<0.50 - <1.0
Muller Pond	4/14/2005	-	<0.050	<0.0050	0.100	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**5.0**	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
Muller Pond	9/15/2005	*Pond is Dry. No sample retrieved.*																					
Muller Pond	3/29/2006	-	0.260	<0.0050	0.100	<0.010	<0.010	<0.010	0.240	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**7.8**	-	-	-	<0.3 - <5	<0.13 - <0.5	<50	<100	<0.50
Muller Pond	9/11/2006	-	0.670	<0.0050	0.160	<0.010	0.013	<0.010	**0.820**	<0.00020	0.021	<0.0050	<0.0050	<0.020	**15**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	270	<0.50 - <1.0
Muller Pond	9/28/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	-
Muller Pond	3/20/2007	-	0.170	<0.0050	0.098	<0.010	<0.010	<0.010	0.180	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.9	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Muller Pond	9/7/2007	-	**2.20**	<0.0050	0.081	<0.010	<0.010	<0.010	**3.300**	<0.00020	**0.110**	<0.0050	<0.0050	<0.020	**140**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Muller Pond	3/11/2008	-	0.068	<0.0050	0.110	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.2	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Muller Pond	9/11/2008	*Pond is Dry. No sample retrieved.*																					
Muller Pond	3/17/2009	-	0.057	<0.0050	0.120	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Muller Pond	9/16/2009	*Pond is Dry. No sample retrieved.*																					
Muller Pond	3/25/2010	-	0.100	<0.0050	0.120	<0.010	<0.010	<0.010	0.140	<0.00020	<0.020	<0.0050	<0.0050	<0.020	4.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Muller Pond	9/15/2010	-	<0.050	<0.0050	0.024	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.98	-	-	-	<0.05 - <0.1	<0.2 - <250	<50[14]	<50[14]	<0.50 - <1.0
Muller Pond	4/4/2012	*No metals or organics analyses required under post-reclamation conditions*																					
Coors Pond	9/7/2007	-	<0.050	<0.0050	0.060	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**17**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	3/11/2008	-	0.150	<0.0050	0.076	<0.010	<0.010	<0.010	0.170	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**6.4**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	9/11/2008	-	0.180	<0.0050	0.096	<0.010	<0.010	<0.010	0.170	<0.00020	0.027	<0.0050	<0.0050	<0.020	**12**	-	-	-	<0.05 - <0.1	2.9[13]	<50	<50	<0.50 - <1.0
Coors Pond	3/17/2009	-	0.085	<0.0050	0.051	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**9.3**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	9/16/2009	-	0.054	0.0077	0.070	<0.010	<0.010	<0.010	<0.100	<0.00020	**0.068**	<0.0050	<0.0050	<0.020	4.1	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	3/25/2010	-	0.078	<0.0050	0.059	<0.010	<0.010	<0.010	0.130	<0.00020	<0.020	<0.0050	<0.0050	<0.020	4.7	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	9/15/2010	-	<0.050	<0.0050	0.055	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**7.5**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50[14]	<50[14]	<0.50 - <1.0
Coors Pond	4/6/2011	-	<0.050	<0.0050	0.033	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.2	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	9/12/2011	-	<0.050	<0.0050	0.037	<0.010	0.012	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.7	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	120[15]	<0.50 - <1.0
Coors Pond	10/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50[15]	-
Coors Pond	3/29/2012	-	<0.050	<0.0050	0.068	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	210[16]	<0.50 - <1.0
Coors Pond	5/1/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50[16]	-
Coors Pond	9/10/2012	-	<0.050	0.0065	0.110	<0.010	<0.010	<0.010	<0.100	<0.00020	0.023	<0.0050	<0.0050	<0.020	2.4	-	-	-	<0.05 - <0.1	<0.2 - <250	120[18a]	<50	<0.50 - <1.0
Coors Pond	9/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	540[18a]	-	-
Coors Pond	9/25/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50[18b]	-	-
Coors Pond	4/17/2013	-	0.130	<0.0050	0.065	<0.010	0.010	<0.010	0.140	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.8	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	9/11/2013	-	0.110	0.0058	0.059	<0.010	0.010	<0.010	0.150	<0.00020	<0.020	<0.0050	<0.0050	<0.020	**5.7**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	6/2/2014	-	0.250	0.0083	0.066	<0.0005	<0.010	<0.010	**0.360**	<0.00020	0.024	<0.0050	<0.0050	0.140	2.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Coors Pond	10/6/2014	-	**2.700**	0.0140	0.120	<0.010	<0.010	<0.010	**3.900**	<0.00020	**0.110**	<0.0050	<0.0050	<0.020	**49**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	430[19]	<0.50 - <1.0
Coors Pond	10/20/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180[19]	-
Coors Pond	3/27/2015	*Wet-pit filled in. No sample retrieved, or to be retrieved in future.*																					
Storz Pond	4/6/2011	-	0.130	<0.0050	0.190	<0.010	<0.010	<0.010	0.130	<0.00020	<0.020	<0.0050	<0.0050	<0.020	3.5	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	9/12/2011	-	<0.050	<0.0050	0.069	<0.010	<0.010	<0.010	<0.100	<0.00020	0.028	<0.0050	<0.0050	<0.020	3.4	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	3/29/2012	-	<0.050	<0.0050	0.250	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.8	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	120[16]	<0.50 - <1.0
Storz Pond	5/1/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50[16]	-
Storz Pond	9/10/2012	-	<0.050	<0.0050	0.200	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	0.0054	<0.020	1.4	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0

Table 4
Water Quality – Metals and Organics
Teichert Aggregates – Woodland Properties

(all units in mg/L, unless otherwise specified)

Sampling Point	Date	Ag	Al	As	Ba	Cd	Cr	Cu	Fe	Hg	Mn	Pb	Se	Zn	Turbidity (NTU)	EPA 502.2[2] (µg/L)	EPA 8260[3] (µg/L)	EPA 8310[4] (µg/L)	EPA 8141A[5] (µg/L)	EPA 8151A[6] (µg/L)	TPH-Diesel[7] (µg/L)	TPH-MO[7] (µg/L)	BTEX EPA 8260B[8] (µg/L)
MCL[1]		*0.1*	1	0.05	1	0.005	0.05	*1*	*0.3*	0.002	*0.05*	0.05	0.05	*5*	*5*								
Storz Pond	4/17/2013	-	<0.050	<0.0050	0.150	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.1	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	9/11/2013	-	<0.050	<0.0050	0.054	<0.010	0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.72	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	6/2/2014	-	<0.050	<0.0050	0.033	<0.0005	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	0.77	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	10/6/2014	-	<0.050	<0.0050	0.240	<0.010	<0.010	<0.010	0.15	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.3	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	150[19]	<0.50 - 0.91[20]
Storz Pond	10/20/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130[19]	<0.50[20]
Storz Pond	3/26/2015	-	<0.050	<0.0050	0.091	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<10	**12**	<0.50 - <1.0
Storz Pond	10/28/2015	-	<0.050	<0.0050	0.034	<0.010	<0.010	<0.010	0.17	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.5	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	4/13/2016	-	<0.050	<0.0020	0.120	<0.010	<0.010	<0.010	<0.100	<0.00020	0.027	<0.0050	<0.0050	<0.020	<0.50	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	9/13/2016	-	<0.050	<0.0050	0.031	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.9	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	**610**	<0.50 - <1.0
Storz Pond	4/25/2017	-	**3.100**	<0.0050	0.140	<0.010	0.012	<0.010	**2.9**	<0.00020	**0.060**	<0.0050	<0.0050	<0.020	**27**	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	10/4/2017	-	<0.050	<0.0050	0.086	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	2.9	-	-	-	<0.05 - <0.1	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	4/5/2018	-	0.050	<0.0020	0.110	<0.010	<0.010	<0.010	<0.100	<0.00020	0.036	<0.0050	<0.0050	<0.020	2.6	-	-	-	<0.05 - <0.12	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	9/19/2018	-	0.190	0.002	0.054	<0.010	<0.010	<0.010	0.300	<0.00020	0.023	<0.0050	<0.0050	<0.020	1.9	-	-	-	<6 - <50	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	4/11/2019	-	<0.050	<0.0050	0.130	<0.010	<0.010	<0.010	<0.100	0.0003222	<0.020	<0.0050	<0.0050	<0.020	1.1	-	-	-	<0.05 - <0.10	<0.22 - <250	<50	<50	<0.50 - <1.0
Storz Pond	10/10/2019	-	<0.050	<0.0050	0.085	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.020	<0.0050	<0.0050	<0.020	1.7	-	-	-	<0.05 - <0.10	<0.2 - <250	<50	<50	<0.50 - <1.0
Storz Pond	3/30/2020	-	<0.050	<0.0020	0.150	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.010	<0.0050	<0.0050	<0.020	0.87	-	-	-	<0.05 - <0.10	<0.23 - <290	<50	<50	<0.50 - <1.0
Storz Pond	9/15/2020	-	<0.050	<0.0020	0.040	<0.010	<0.010	<0.010	<0.100	<0.00020	<0.010	<0.0050	<0.0050	<0.020	2.7	-	-	-	<0.05 - <0.10	<0.2 - <250	<50	<50	<0.50 - <1.0

Notes:

Beginning in 2005, all non-detected (ND) values are given as "<reporting limit".

1. Maximum Contaminant Levels for drinking water standards; italic font style indicates secondary, i.e., consumer acceptance limits. Measured constituent concentrations at or exceeding the MCL are highlighted with bold font style.
2. Volatile Organics, EPA 502.2, includes BTEX.
3. Volatile Organics, EPA 8260.
4. Polynuclear Aromatic Hydrocarbons, EPA 8310.
5. Organophosphorus Pesticides, EPA 8141A (previously EPA 8140).
6. Organochlorine Herbicides, EPA 8151A (previously EPA 8150).
7. Total petroleum hydrocarbons, modified EPA 8015; MO = motor oil.
8. Previously EPA 8020.
9. Hydrocarbons reported as TPH-Motor Oil do not exhibit a typical motor oil chromatographic pattern.
10. A sample was retrieved prior to purging of the well (8:45 AM) and after purging of multiple wet casing volumes (9:45 AM). In the 8:45 AM sample, TPH-diesel was identified (82 µg/L), however, it did not exhibit a typical diesel chromatographic pattern. After the removal of polar constituents in the 8:45 AM sample (EPA method 3630), TPH-diesel was not detected. TPH-diesel was not detected in the 9:45 AM sample.
11. Dichloroprop detected at 2.1 µg/L; other constituents below detection limits (<0.2 - <250 µg/L).
12. Fensulfothion detected at 0.28 µg/L; other constituents below detection limits (<0.05 - <0.1µg/L).
13. Dichloroprop detected at 2.9 µg/L; other constituents below detection limits (<0.2 - <250 µg/L).
14. Initial analytical results were identified as laboratory contamination.
15. Hydrocarbons reported for September 12, 2011, as TPH-Motor Oil questionable (CLS Labs, James Liang, October 3, 2011); Resample on October 14, 2011, indicated ND.
16. Hydrocarbons as TPH-Motor Oil reported for March 29, 2012; on May 1, 2012, resample with and without Silica Gel Treatment indicated ND.
17. (a) Toluene reported for May 1, 2012; (b) resample with duplicates on June 6, 2012, indicated ND.
18. (a) Hydrocarbons as TPH-Diesel reported for Sept 10, 2012, ; on Sept 25, 2012, (a) resample without Silica Gel Treatment was TPH-Diesel detected and (b) with SGT indicated ND.
19. TPH-Motor Oil reported 10/6/2014 and 10/20/2014 is questionable (CLS Labs, James Liang, October 28, 2014).
20. Toluene reported for Oct 6, 2014; resample with duplicates on Oct 20, 2014, indicated ND.
21. Motor Oil reported at 170 ug/L on 4/26/17 is questionable (Field Blank showed Motor Oil at 210 ug/L).
22. Hg reported at 0.32 ug/L on 4/11/19 is questionable (followup sample ND).

APPENDIX

Groundwater Level Hydrographs and Field Notes

Table A1
Teichert and YCFCWCD Monitoring Network Information
Teichert Aggregates Woodland Plant Area

Well Network

Well Name	Well Type	Current Status	Easting (NAD 83)	Northing (NAD 83)	Reference Point Elevation (Feet, NAVD88)	Well Depth (Feet)	Periods of Record (Levels)	Periods of Record (Quality)	Monitoring and Reporting Entity	Note Code
TA-1A	Monitoring	NA	6,596,353.559	2,012,240.070	112.96	39.7	1987 - 2019	2005 - 2019	Teichert	
TA-1	Monitoring	NA	6,596,353.559	2,012,240.070	112.72	23.9	1986 - 1989	- - -	Teichert	1
TA-3A	Monitoring	NA	6,593,592.840	2,013,271.854	119.06	33.0	1992 - 2019	2005 - 2007	Teichert	
TA-3	Monitoring	NA	6,593,592.840	2,013,271.854	121.33	20.7	1986 - 1993	- - -	Teichert	1
TA-4	Monitoring	NA	6,593,395.982	2,012,443.672	121.97	28.6	1986 - 2019	- - -	Teichert	1
TA-5A	Monitoring	NA	6,593,246.394	2,011,687.500	121.00	34.3	1987 - 2019	1995 - 2019	Teichert	
TA-5	Monitoring	NA	6,593,335.232	2,011,588.210	119.72	27.9	1986 - 2019	- - -	Teichert	1
TA-6	Monitoring	NA	3,594,064.231	2,011,596.049	118.12	28.4	1986 - 2019	- - -	Teichert	1
TA-7	Monitoring	NA	6,596,495.252	2,010,447.499	113.71	35.0	1986 - 1986	- - -	Teichert	1
TA-8	Monitoring	NA	6,597,595.911	2,011,068.992	112.69	32.3	1986 - 2019	- - -	Teichert	1
TA-9R	Monitoring	NA	6,599,597.971	2,011,102.202	114.26	71.8	1987 - 2015	1992 - 1995	Teichert	1
TA-9	Monitoring	NA	6,599,597.971	2,011,102.202	114.24	50.0	1986 - 2015	- - -	Teichert	1
TA-10	Monitoring	NA	6,600,001.230	2,012,833.841	105.79	36.3	1986 - 2019	- - -	Teichert	1
TA-11	Monitoring	NA	6,601,085.682	2,015,970.833	104.64	39.8	1986 - 2019	- - -	Teichert	1
TA-12	Monitoring	NA	6,601,403.237	2,014,158.845	96.98	36.3	1986 - 2019	- - -	Teichert	1
TA-13A	Monitoring	NA	6,602,927.500	2,016,472.184	99.83	61.5	1987 - 2019	1995 - 2018	Teichert	
TA-13	Monitoring	NA	6,604,070.698	2,017,114.992	95.81	39.6	1986 - 2019	- - -	Teichert	1
TA-14	Monitoring	NA	6,601,118.400	2,018,700.842	106.25	37.0	1986 - 2019	1992 - 2018	Teichert	
TA-15	Monitoring	NA	6,603,031.427	2,013,458.300	77.04	40.0	1986 - 2019	- - -	Teichert	1
TA-16	Monitoring	NA	6,603,335.510	2,015,813.980	96.98	40.2	1986 - 2019	- - -	Teichert	1
TA-17	Monitoring	NA	6,604,880.000	2,014,934.000	73.35	34.0	1986 - 2019	- 1992	Teichert	1
TA-18	Monitoring	NA	6,607,284.738	2,017,834.784	84.43	59.8	1986 - 2019	2012 - 2019	Teichert	
TA-22	Monitoring	NA	6,596,440.720	2,013,008.912	115.48	39.0	1992 - 2019	- - -	Teichert	1
TA-23	Monitoring	NA	6,595,092.555	2,013,115.726	116.87	33.0	1992 - 2019	- - -	Teichert	1
TA-24	Monitoring	NA	6,601,446.540	2,015,497.387	119.06	45.0	1992 - 2019	- - -	Teichert	1
TA-25	Monitoring	NA	6,598,321.777	2,011,614.577	110.53	71.2	2009 - 2019	2009 - 2019	Teichert	
YFC-West	Water Supply	Inactive	6,596,845.242	2,009,602.955	116.91	65	1986 - 2019	- - -	Teichert	1
Stephens	Water Supply	Inactive	6,599,721.321	2,011,828.482	112.62	75	1987 - 2019	2009 - 2019	Teichert	
Schwarzgruber	Water Supply	Inactive	6,607,315.531	2,016,472.184	95.25	65	1987 - 2019	2012 - 2019	Teichert	
Coors North	Irrigation	Inactive	6,593,416.229	2,012,435.273	119.88	580	1987 - 2019	- - -	Teichert	1
Coors South	Irrigation	Inactive	6,593,270.563	2,011,845.972	119.58	630	1987 - 1990	- - -	Teichert	1
YFC-East	Irrigation	Active	6,596,976.775	2,009,563.983	116.86	566	1986 - 2019	- - -	Teichert	1
Storz	Water Supply	Active	6,599,553.841	2,010,932.897	115.40	168	1987 - 2015	- - -	Teichert	1
Muller	Irrigation	Inactive	6,604,170.776	2,019,093.456	95.65	- - -	1991 - 2019	- - -	Teichert	1, 2
Muller #2	Irrigation	Active	6,599,463.265	2,013,577.624	109.67	430	1992 - 2019	- - -	Teichert	1
Schwarzgruber #2	Industrial	Active	6,607,315.531	2,016,472.184	94.54	198	1991 - 2019	- - -	Teichert	1
Teichert Plant	Industrial	Active	6,604,232.362	2,014,116.505	97.73	453	1987 - 2019	- - -	Teichert	1
Teichert Plant Domestic	Water Supply	Active	6,603,516.420	2,014,332.057	97.54	- - -	1998 - 2015	- 1995	Teichert	1, 2
Teichert Domestic	Water Supply	Active	6,598,363.371	2,013,141.707	110.79	108	1991 - 2019	- - -	Teichert	1
09N/1E-03C3	Water Supply	Unknown	6,603,535.812	2,003,025.135	102.78	567	1941 - 2019	- - -	YCFCWCD	1, 3
10N/1E-14K1	Water Supply	Unknown	6,610,259.000	2,021,345.000	92.8	77	1957 - 2019	- - -	YCFCWCD	1, 3
10N/1E-23Q2	Water Supply	Unknown	6,611,157.000	2,014,209.000	91.8	220	1950 - 2019	- - -	YCFCWCD	1, 3
10N/1E-24E1	Water Supply	Unknown	6,612,807.000	2,017,307.000	88.8	194	1950 - 2019	- - -	YCFCWCD	1, 3
10N/1E-26E3	Water Supply	Unknown	6,608,451.000	2,011,472.000	100.8	142	1956 - 2019	- - -	YCFCWCD	1, 3
10N/1E-29K1	Water Supply	Unknown	6,595,693.000	2,010,251.000	113.8	336	1951 - 2019	- - -	YCFCWCD	1, 3
10N/1E-33L2	Water Supply	Unknown	6,598,497.000	2,005,957.000	134.3	416	1972 - 2019	- - -	YCFCWCD	1, 3
10N/1E-34A3	Water Supply	Unknown	6,606,845.000	2,008,551.000	102.8	242	1951 - 2019	- - -	YCFCWCD	1, 3

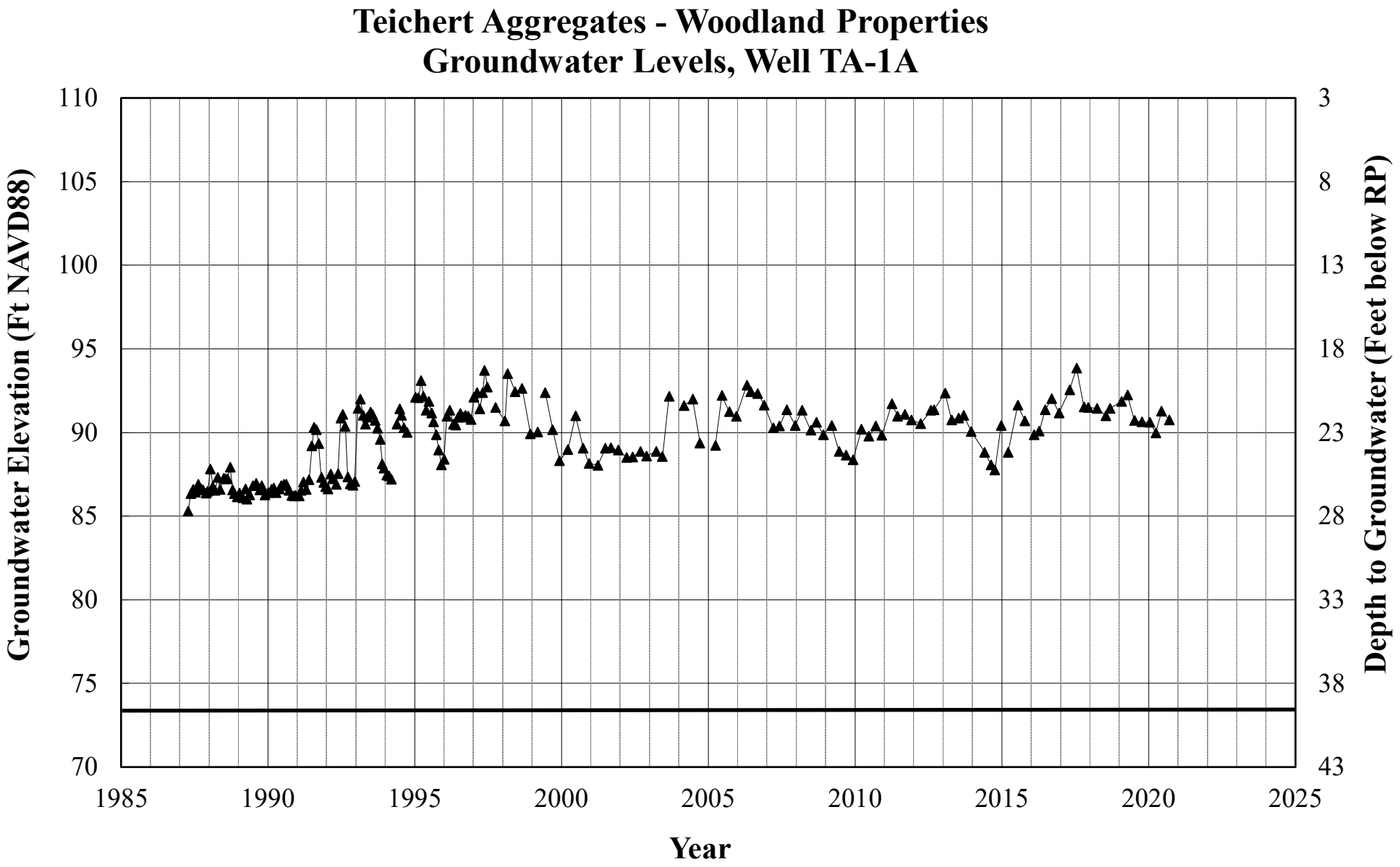
Ponds

Pond Name	Pond Type	Current Status	Period of Record (Quality)	Monitoring and Reporting Entity	Note Code
Muller	Wet Pit	Reclamation complete, backfilled agricultural land and restored wetland	2005 - 2018	Teichert	
Coors	Wet Pit	Reclamation complete, backfilled entirely to agricultural land	2007 - 2014	Teichert	
Storz	Wet Pit	Active	2011 - 2019	Teichert	

1) Well monitored for groundwater levels only, not used for groundwater quality monitoring

2) Well depth unknown

3) Reference Point Elevations updated October 2015, from Yolo County WRID


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-1A
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
80
75
70
3
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13
18
23
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33
38
43
1985
1990
1995
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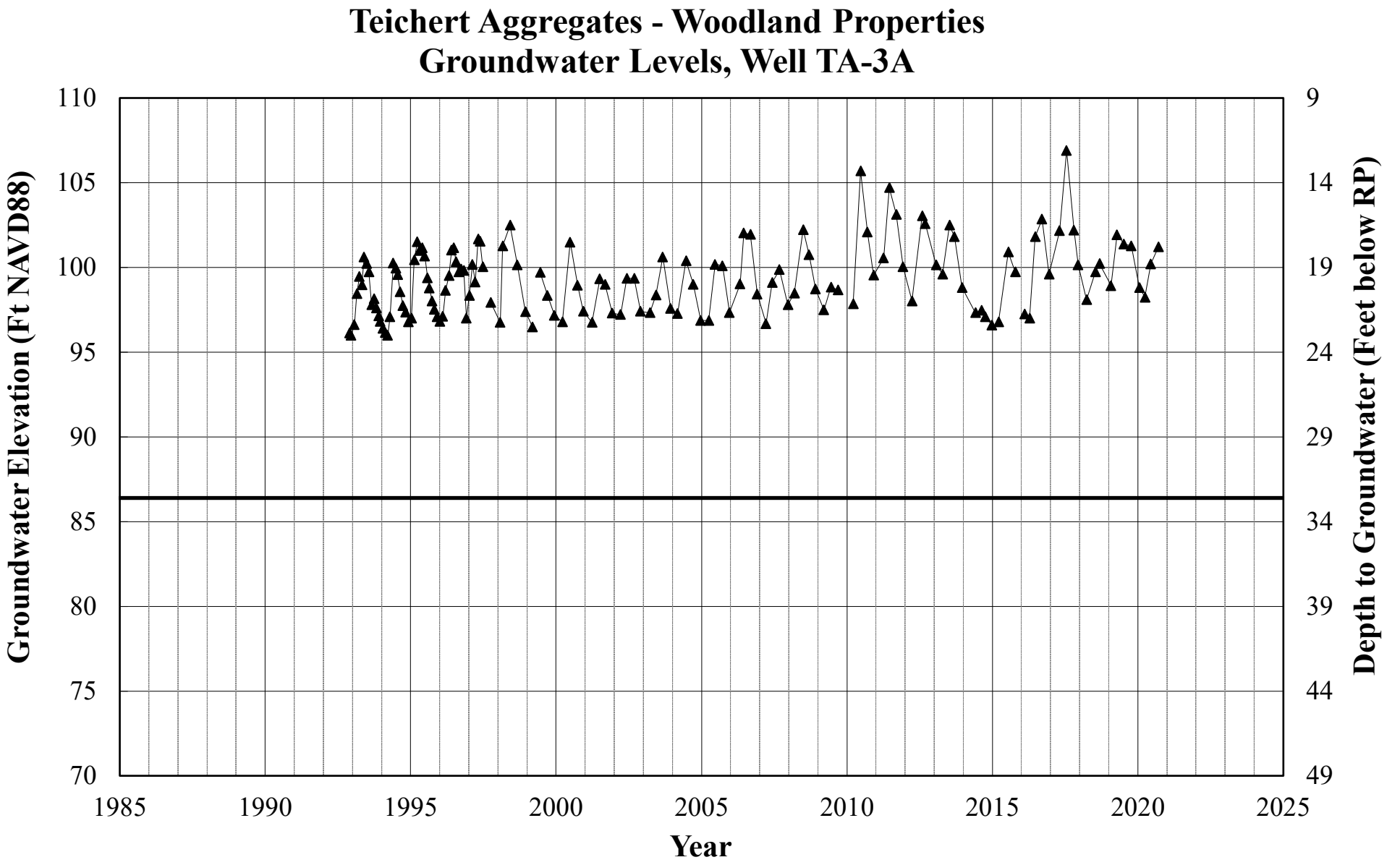
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-3A
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
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75
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9
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19
24
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39
44
49
1985
1990
1995
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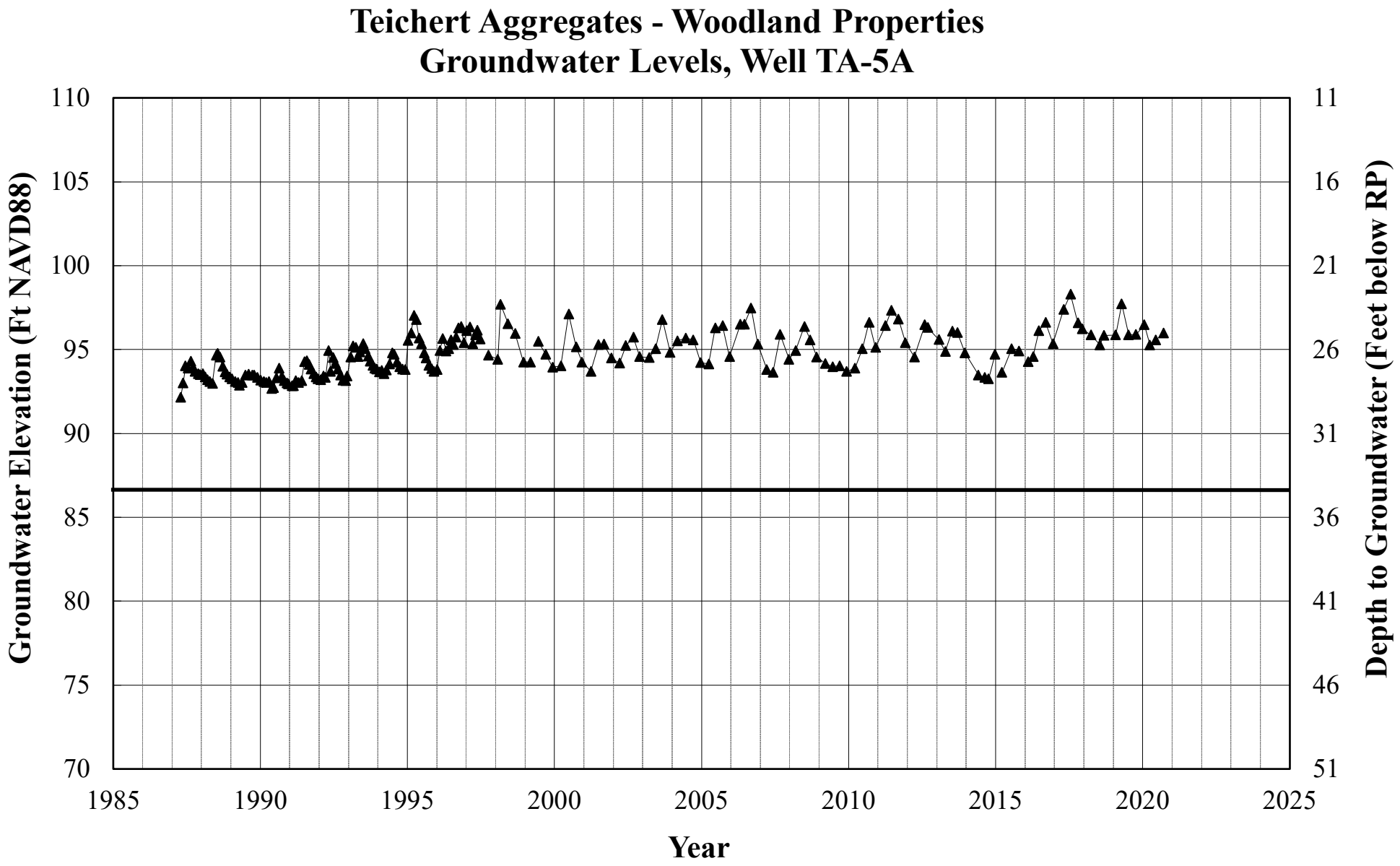
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-5A
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
80
75
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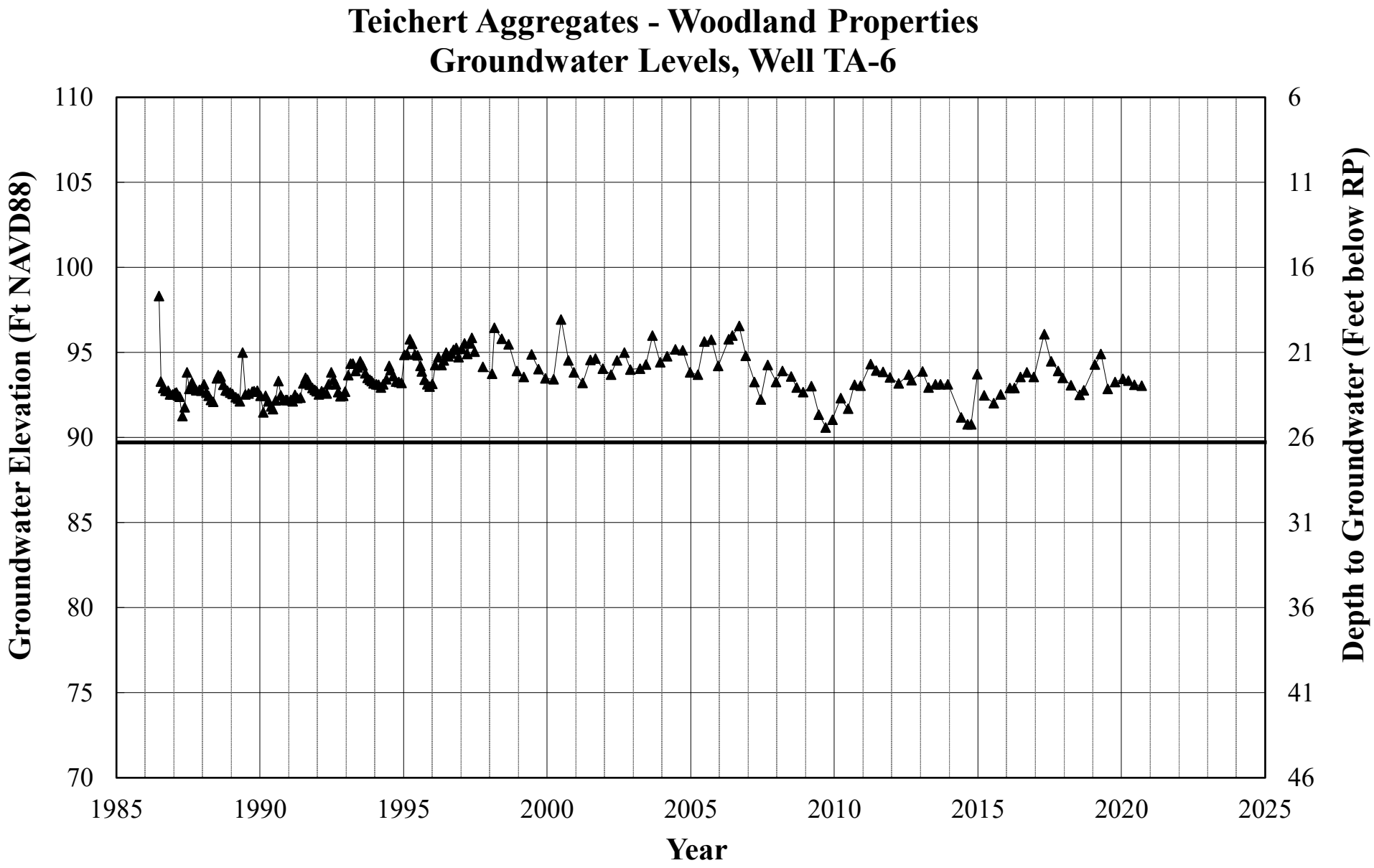
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-6
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
80
75
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6
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16
21
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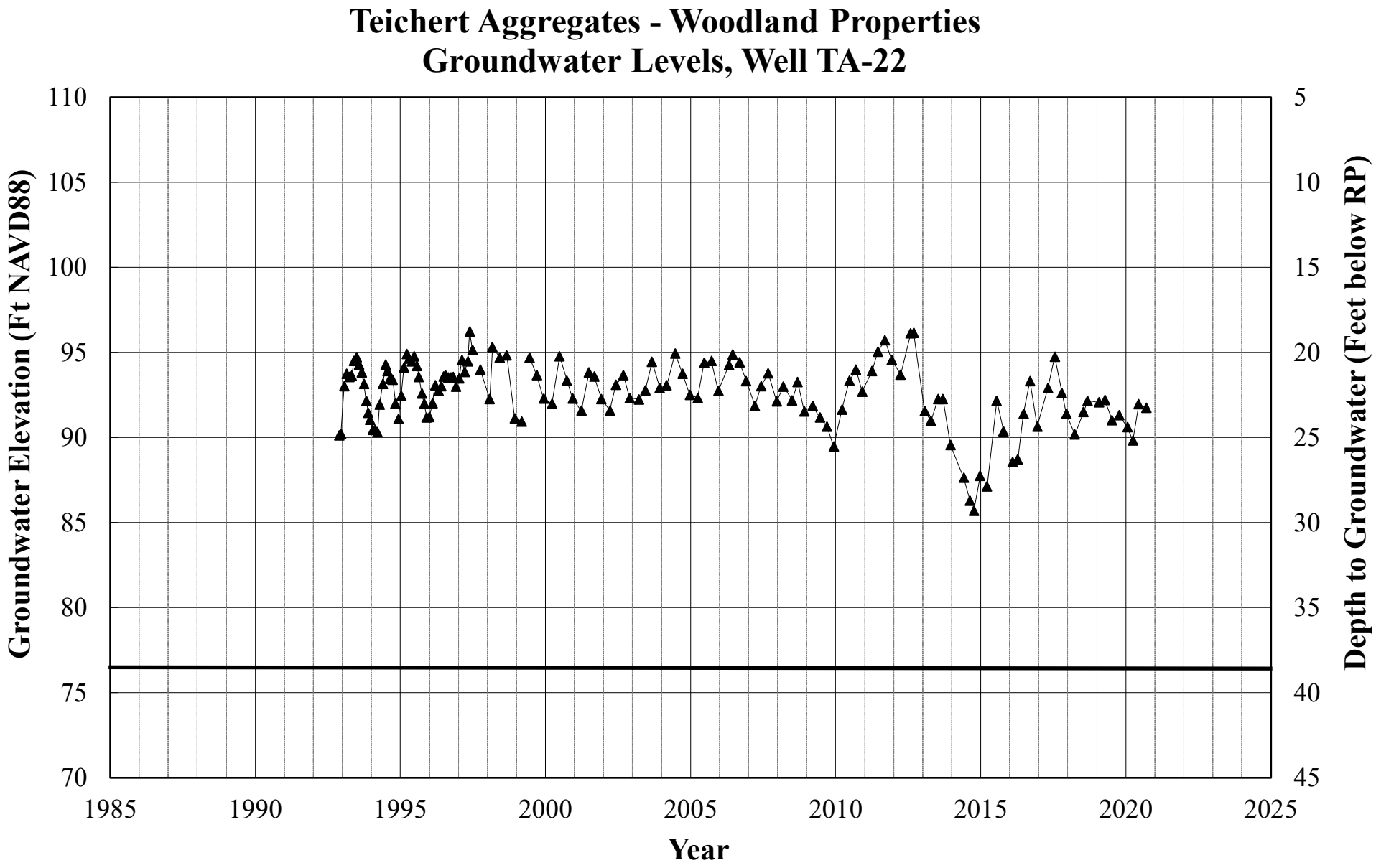
36
41
46
1985
1990
1995
2000
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-22
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
80
75
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5
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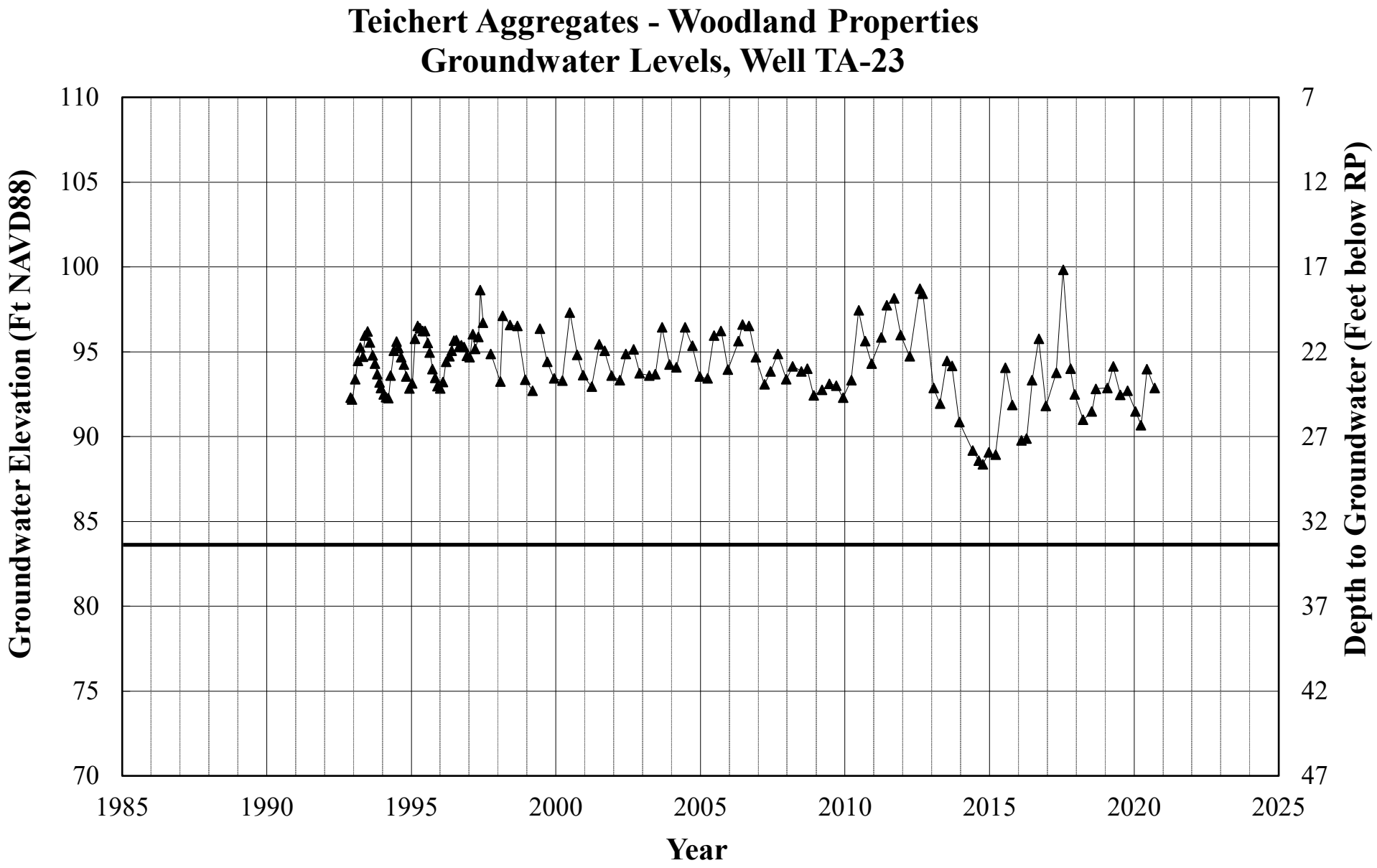
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Well TA-23
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (Feet below RP)
Year
110
105
100
95
90
85
80
75
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42
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1985
1990
1995
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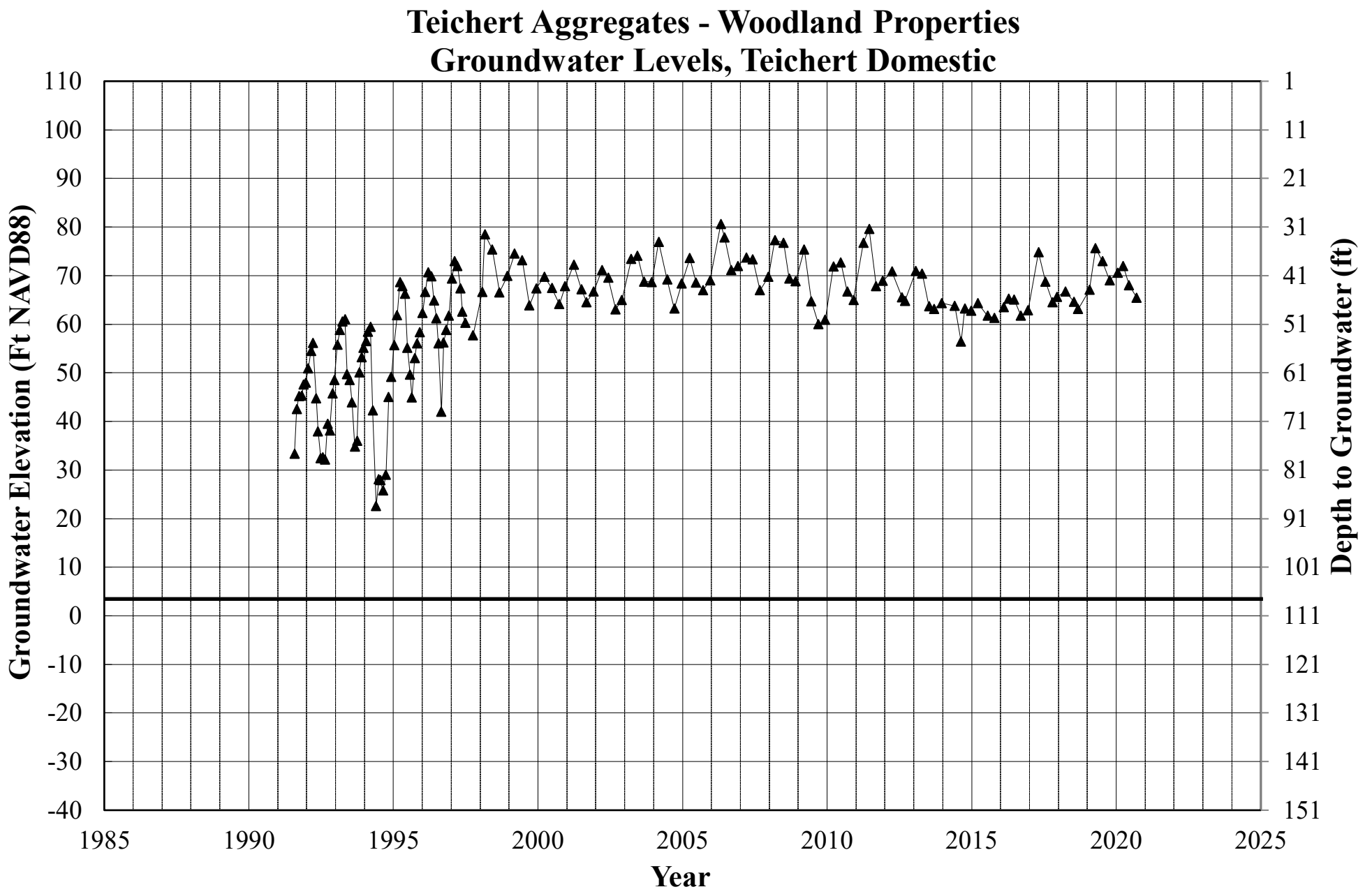
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Groundwater Levels, Teichert Domestic
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
1
11
21
31
41
51
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71
81
91
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111
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131
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151
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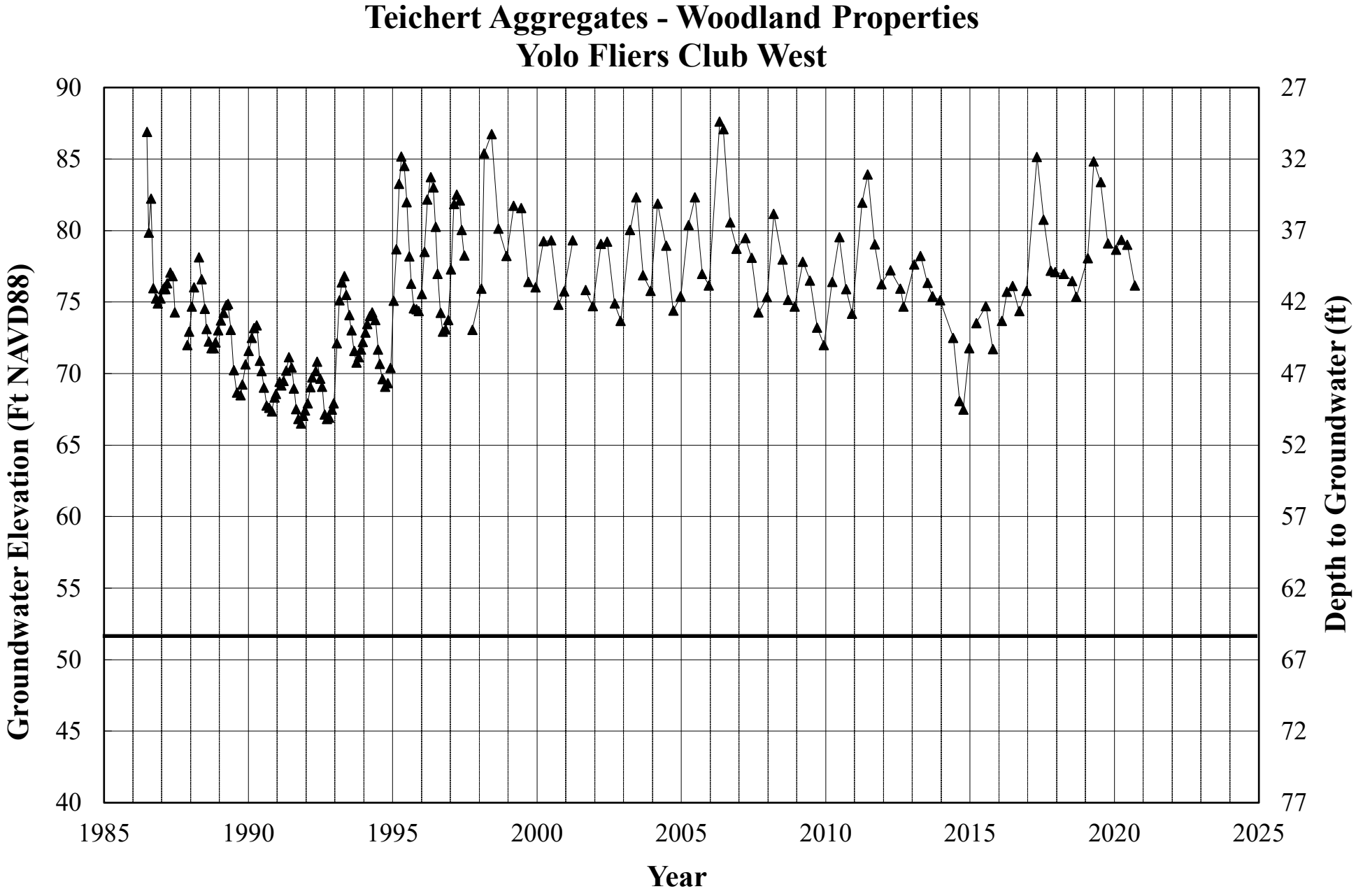
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Yolo Fliers Club West
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
90
85
80
75
70
65
60
55
50
45
40
27
32
37
42
47
52
57
62
67
72
77
1985
1990
1995
2000
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2010
2015
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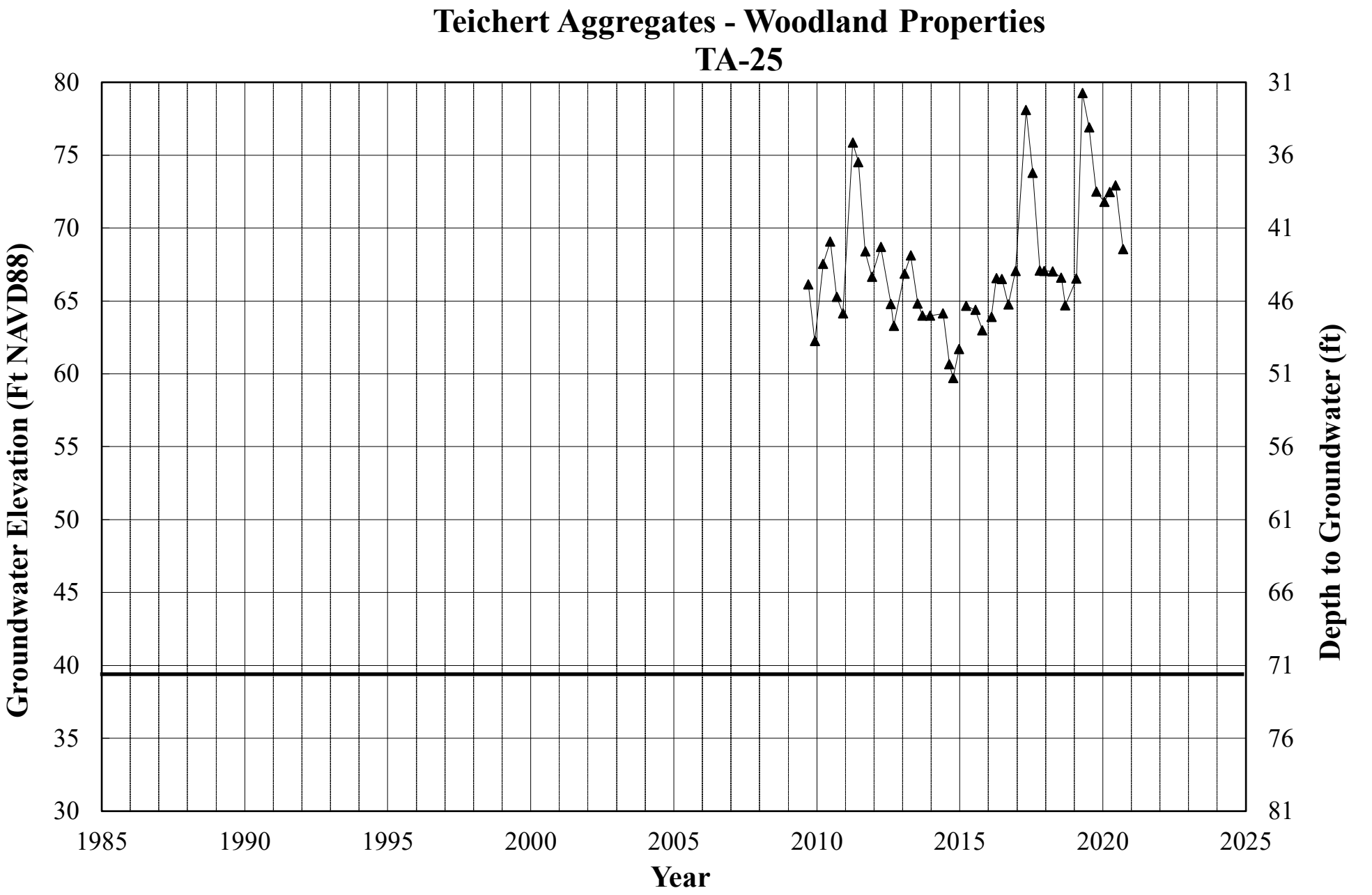
2025


Teichert Aggregates - Woodland Properties
TA-25
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
80
75
70
65
60
55
50
45
40
35
30
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36
41
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51
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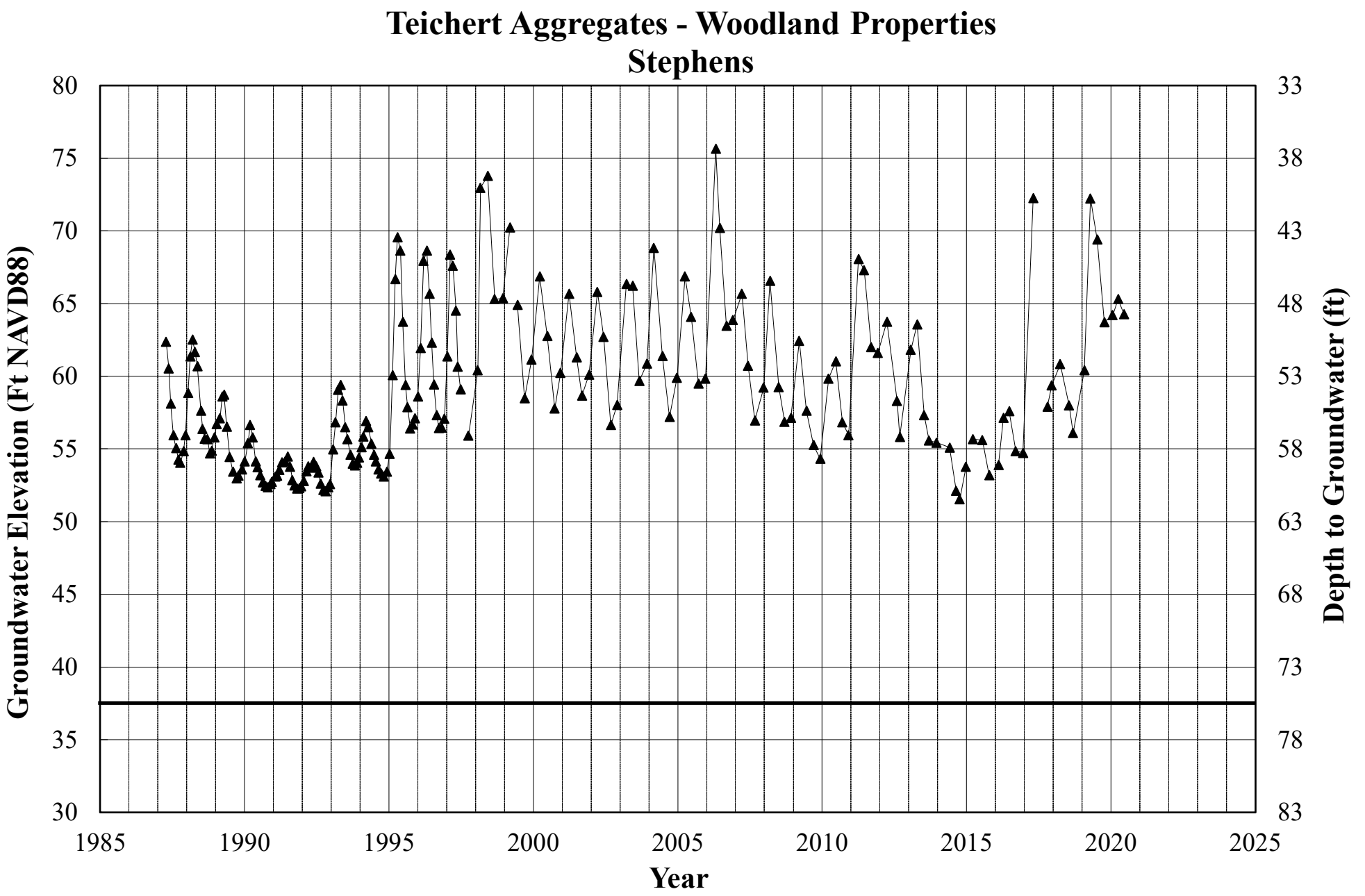
2025


Teichert Aggregates - Woodland Properties
Stephens
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
80
75
70
65
60
55
50
45
40
35
30
33
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43
48
53
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83
1985
1990
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2015
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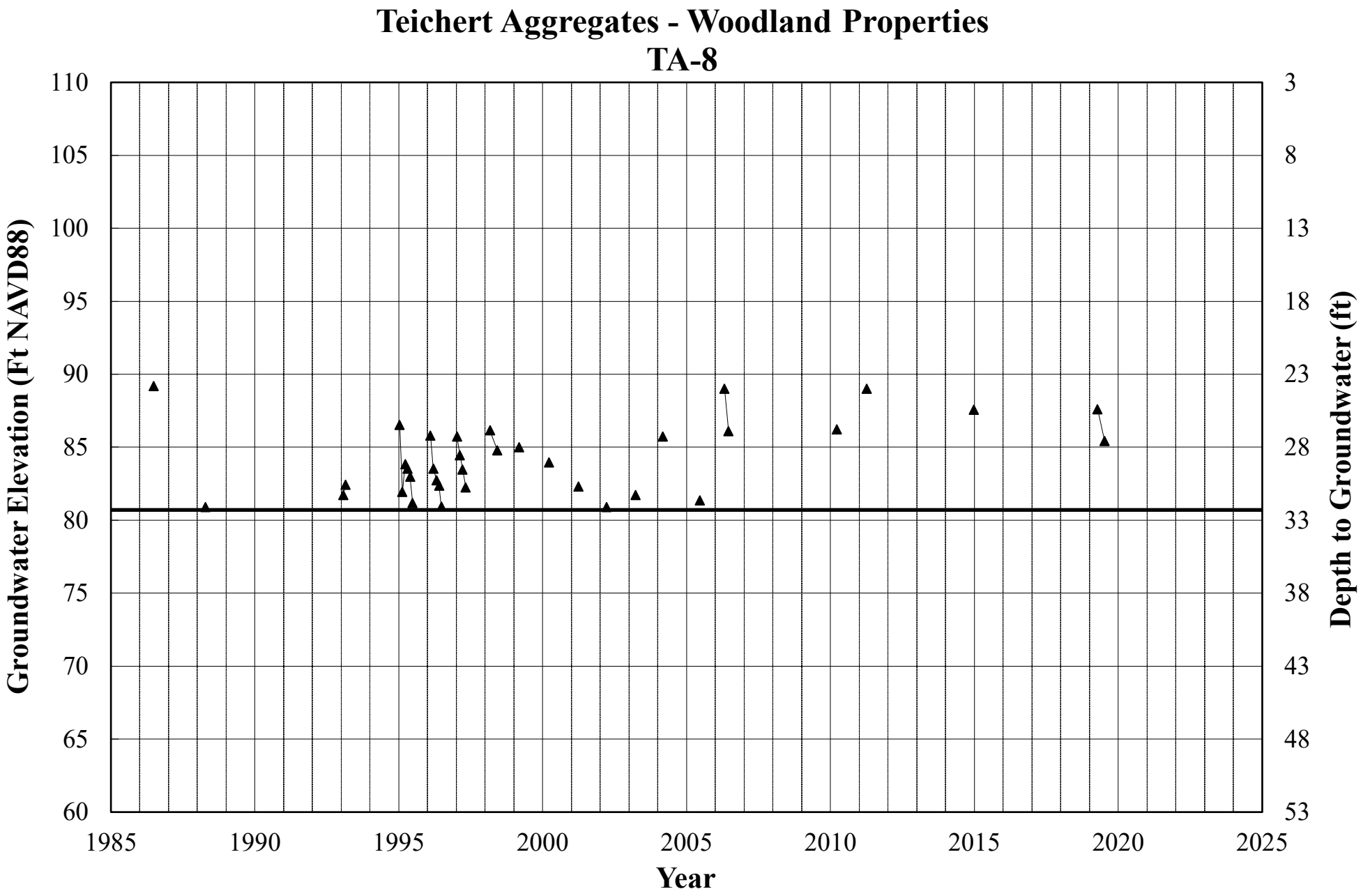
2025


Teichert Aggregates - Woodland Properties
TA-8
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
110
105
100
95
90
85
80
75
70
65
60
3
8
13
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23
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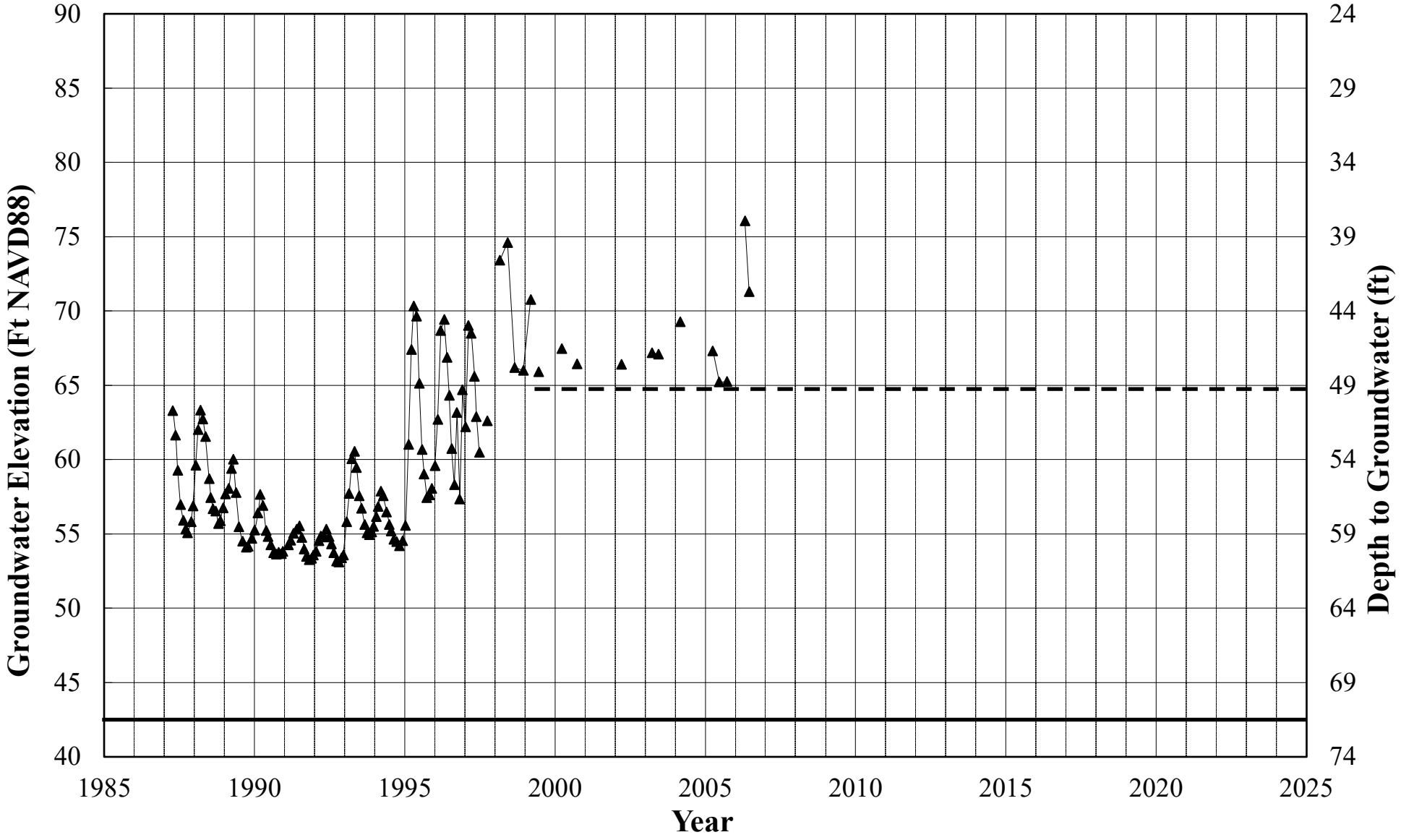
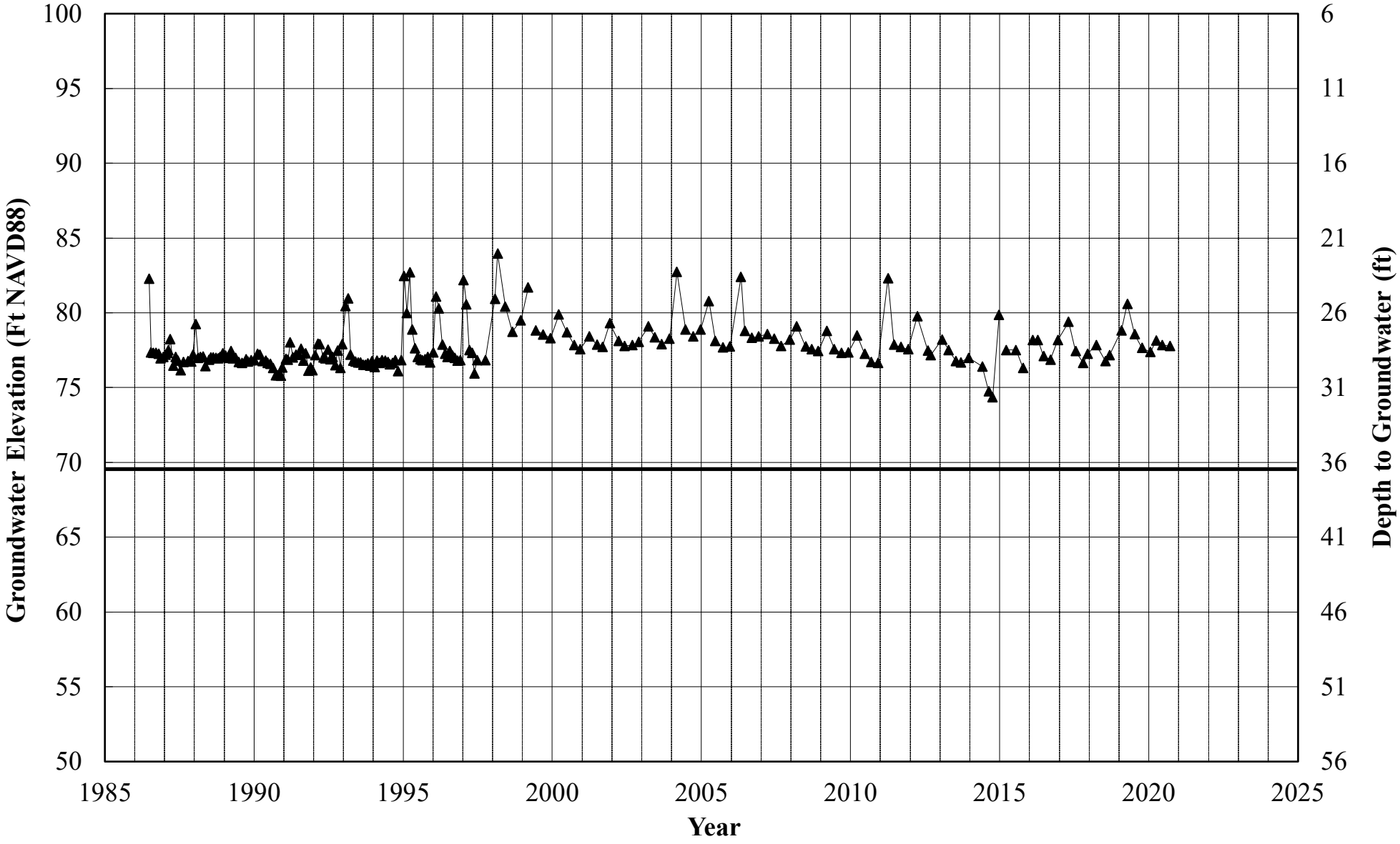
2020
2025

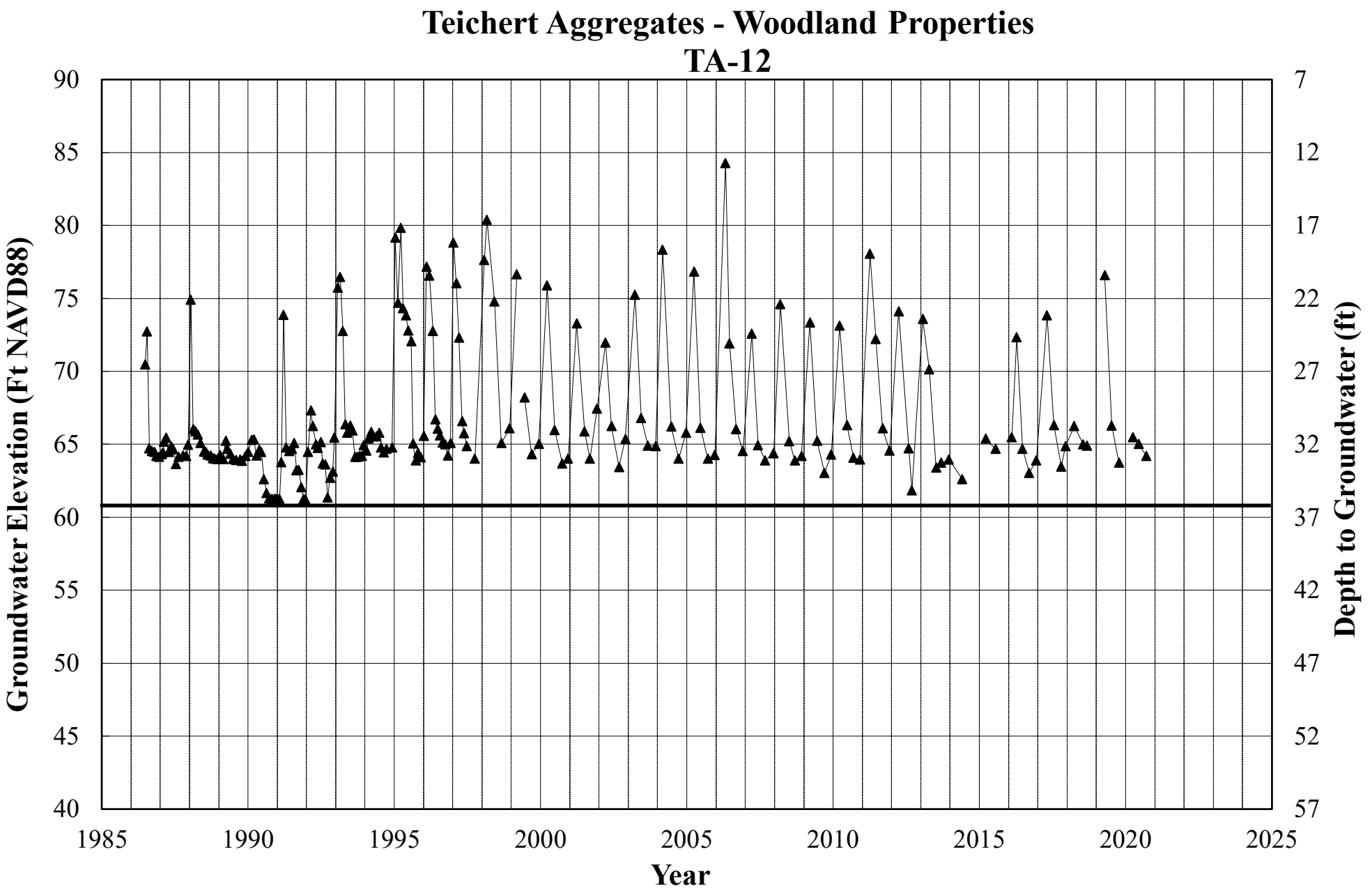
Teichert Aggregates - Woodland Properties
TA-9R



Note: An obstruction at a depth of approximately 49 feet blocks access to water levels below that depth since 1999.

Teichert Aggregates - Woodland Properties
TA-10




Teichert Aggregates - Woodland Properties
TA-12
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
90
85
80
75
70
65
60
55
50
45
40
7
12
17
22
27
32
37
42
47
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57
1985
1990
1995
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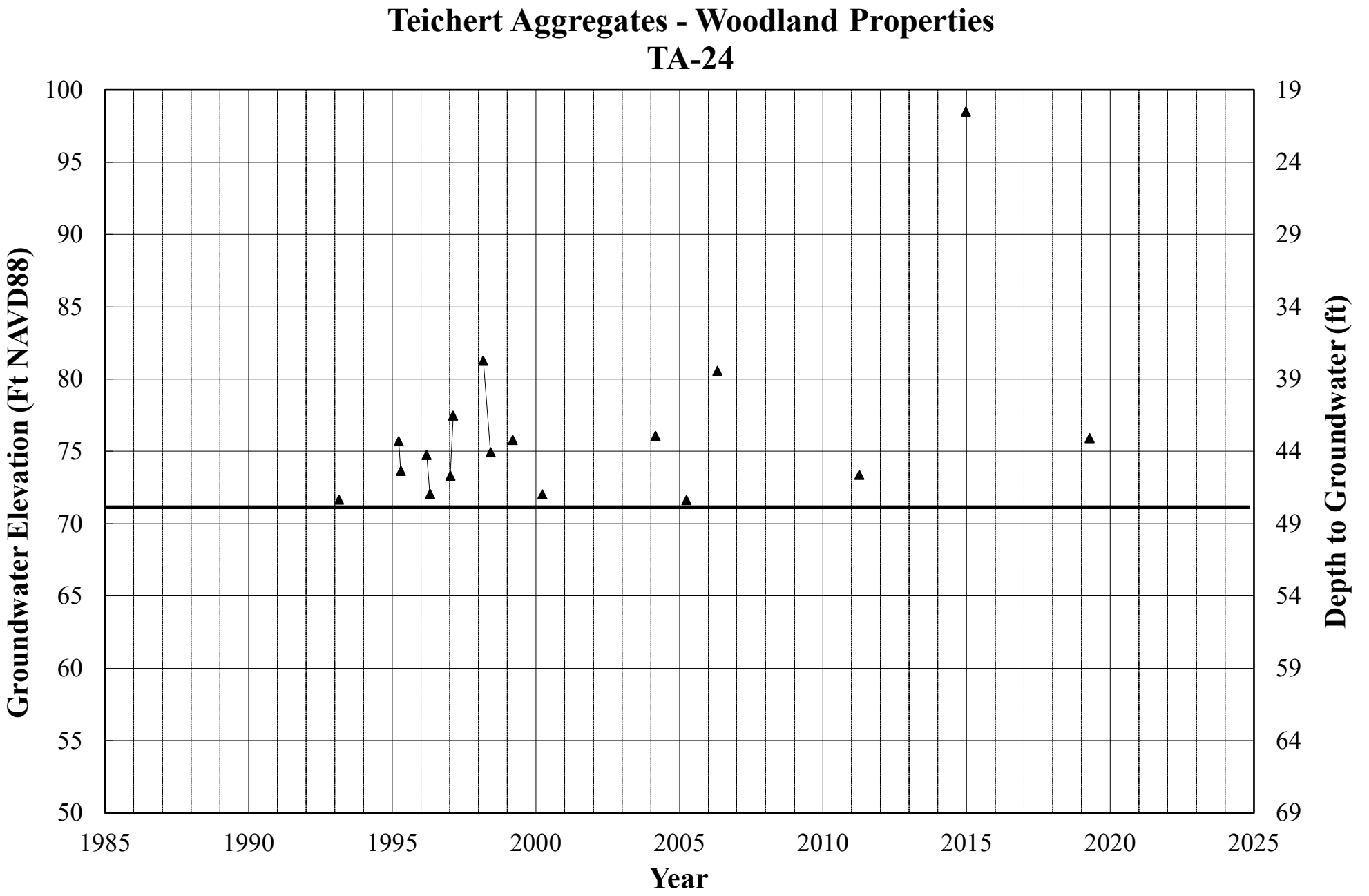
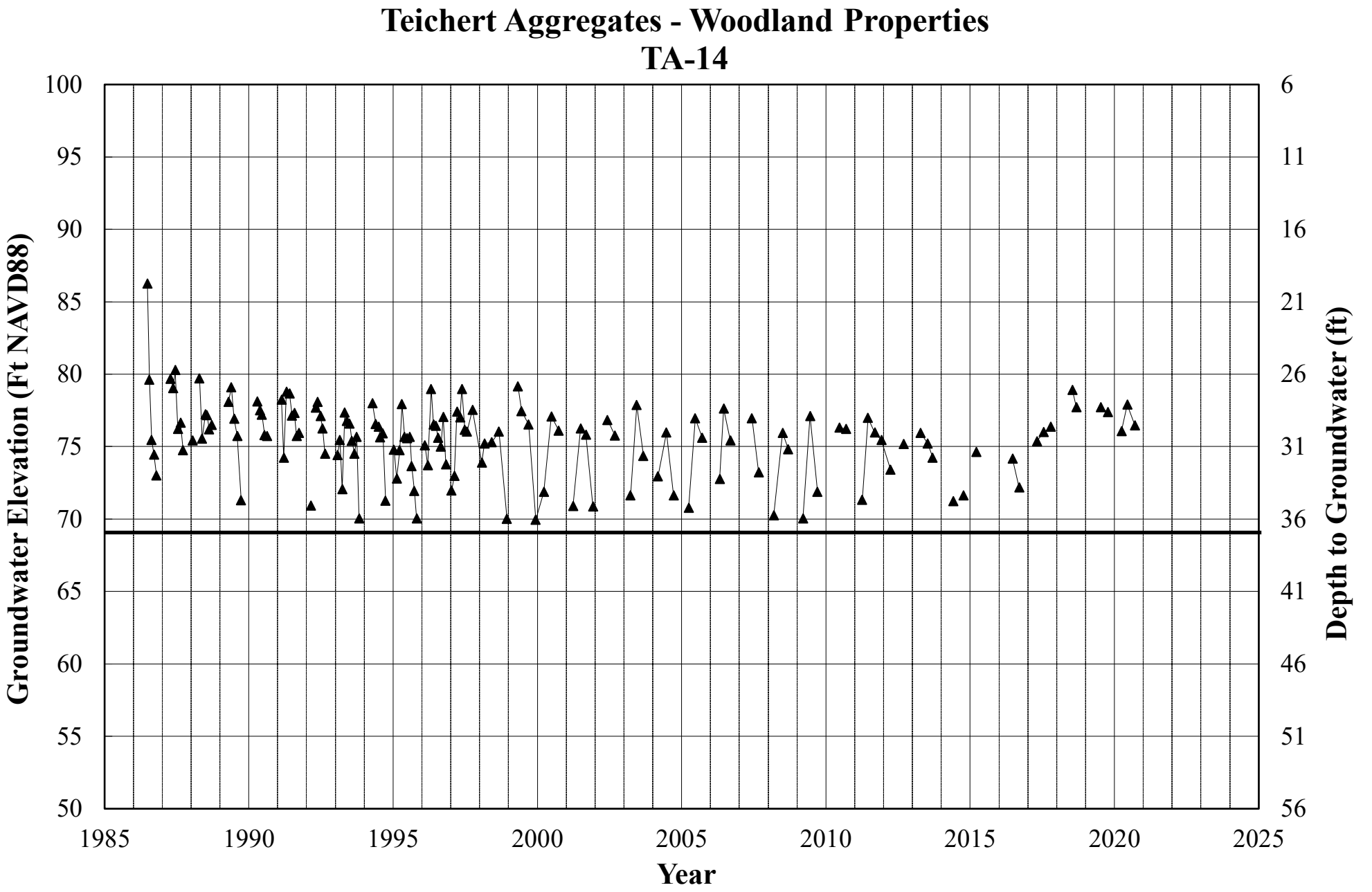
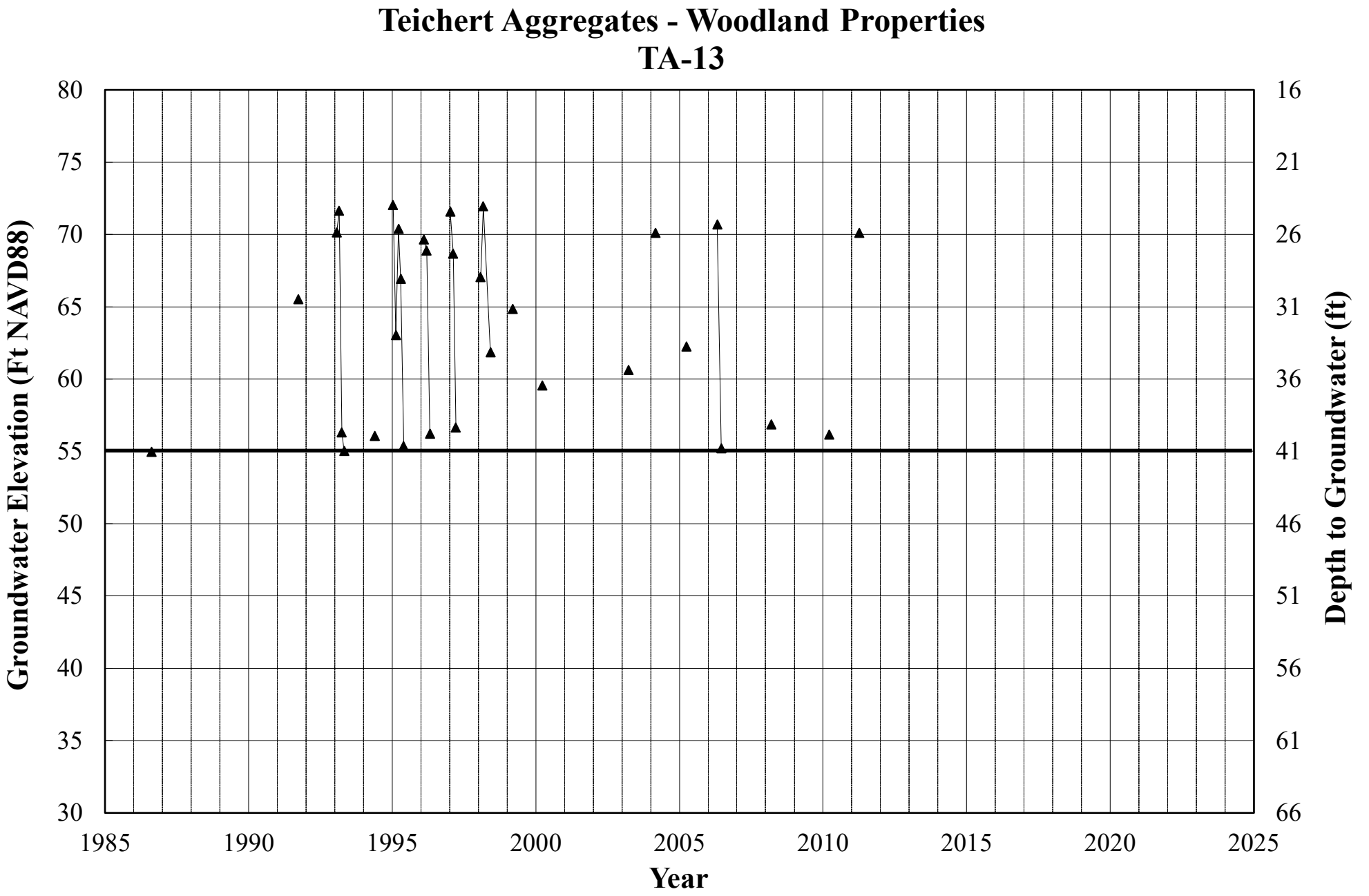
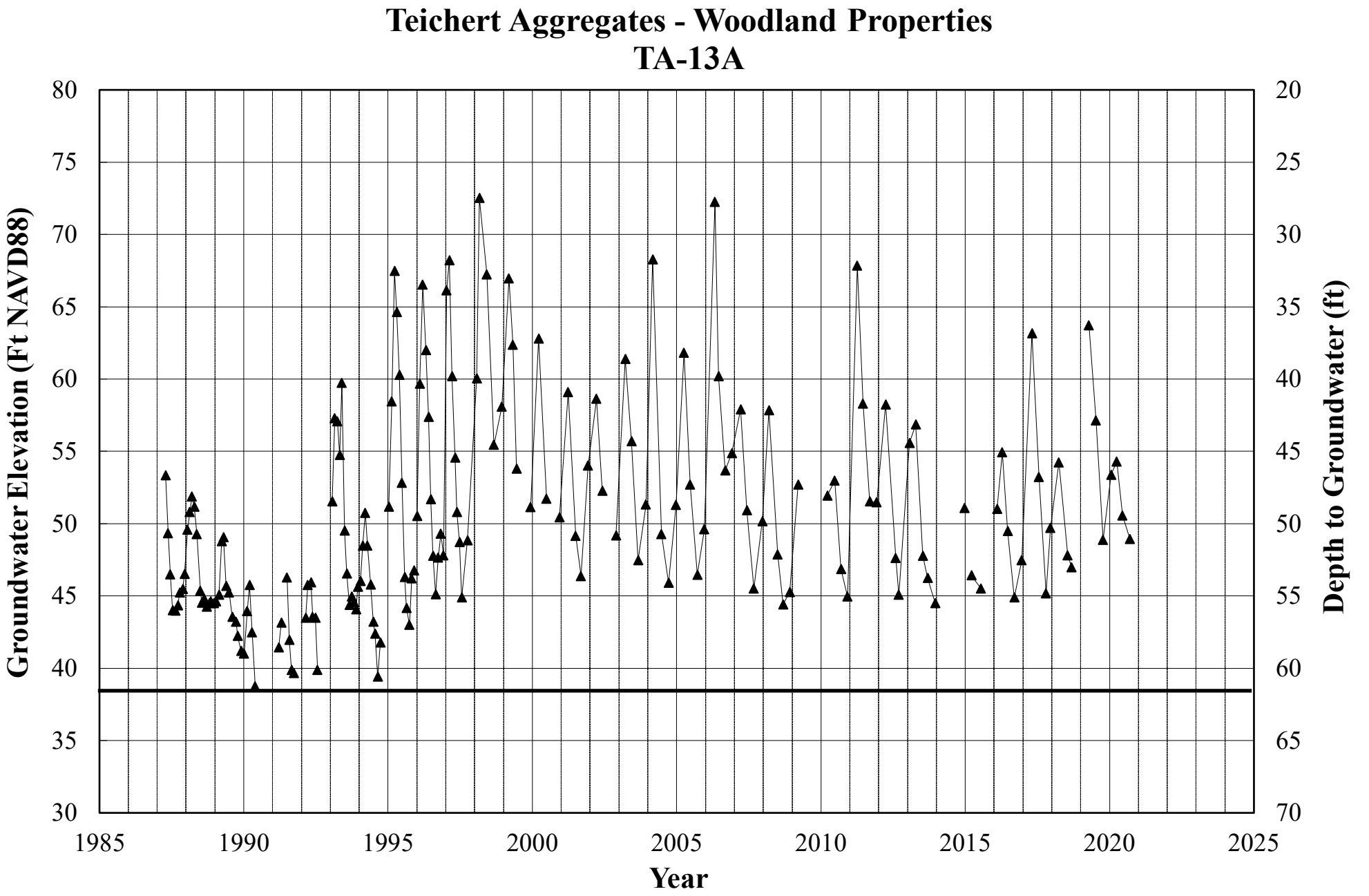
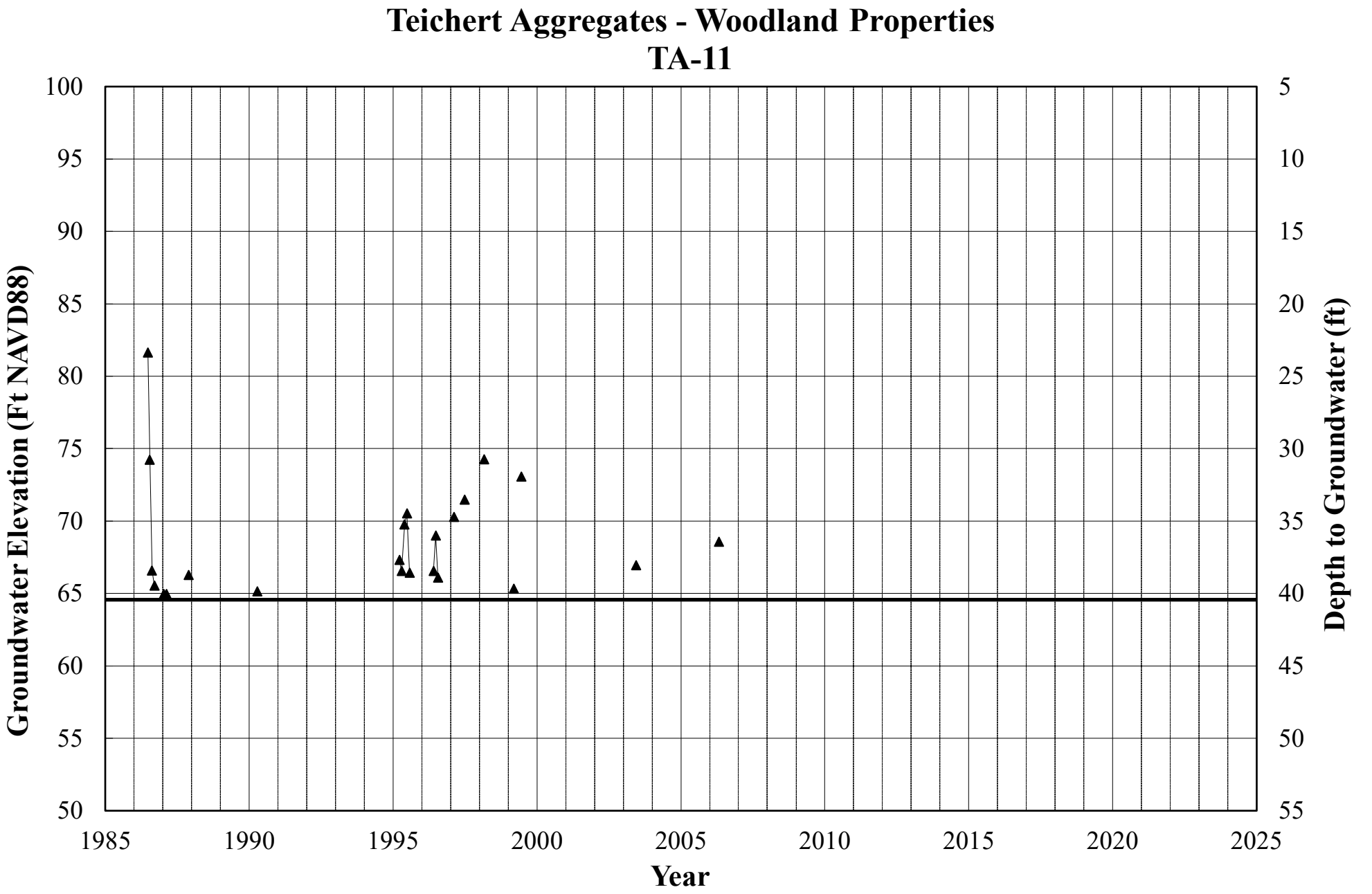
2015
2020
2025

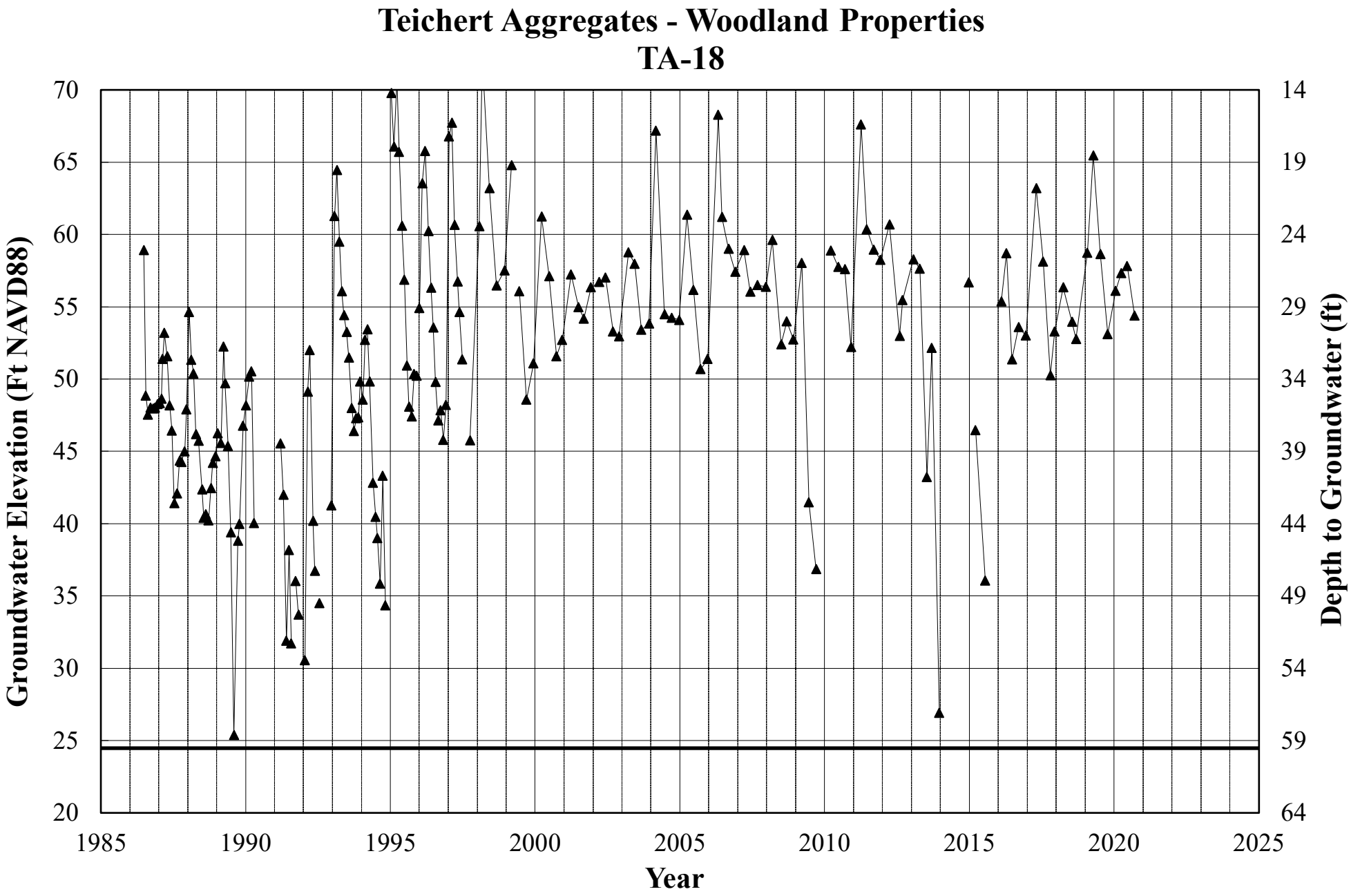

Teichert Aggregates - Woodland Properties
TA-24
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
100
95
90
85
80
75
70
65
60
55
50
19
24
29
34
39
44
49
54
59
64
69
1985
1990
1995
2000
2005
2010
2015
2020
2025

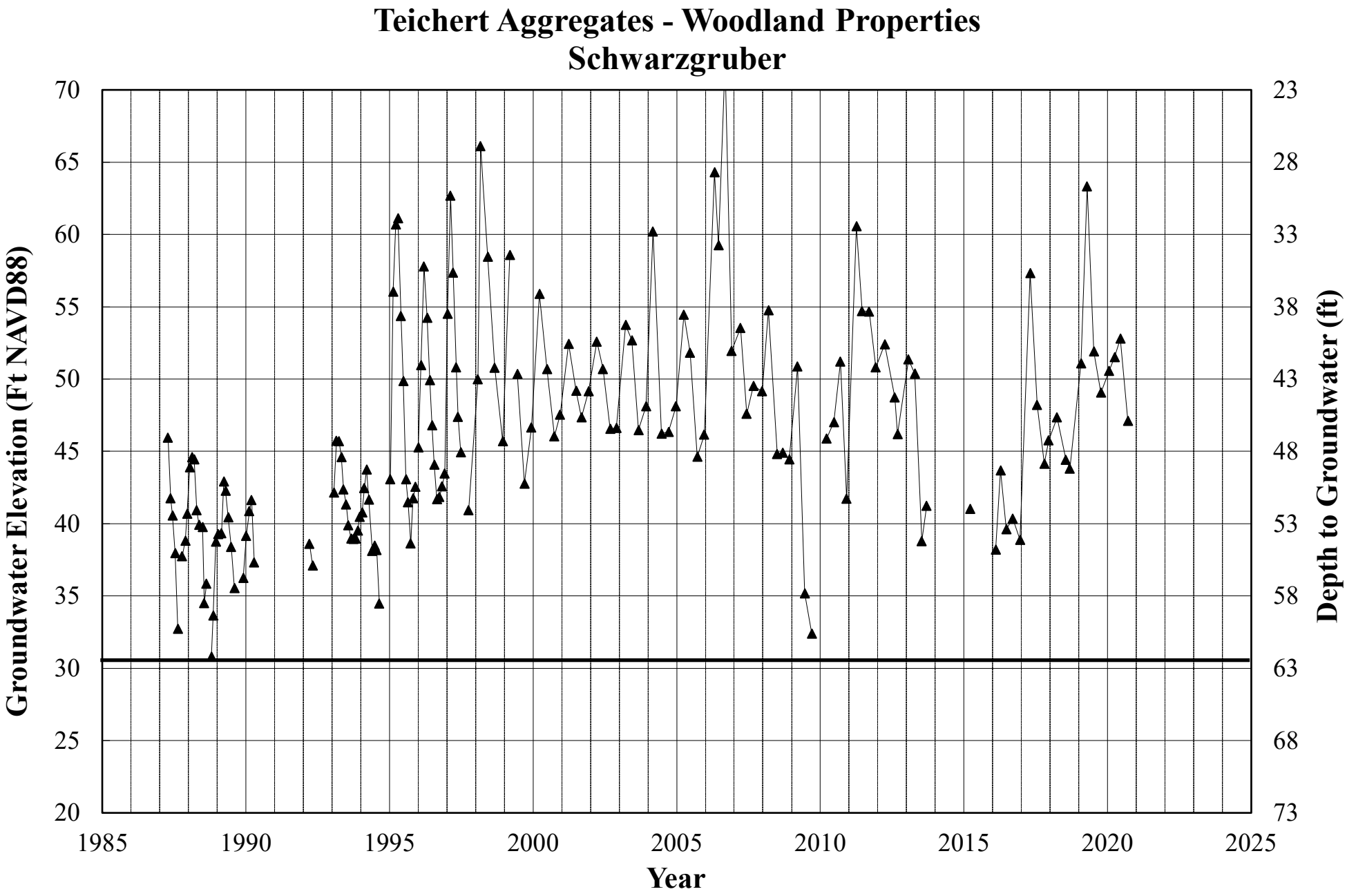

Teichert Aggregates - Woodland Properties
TA-14
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
100
95
90
85
80
75
70
65
60
55
50
6
11
16
21
26
31
36
41
46
51
56
1985
1990
1995
2000
2005
2010
2015
2020
2025

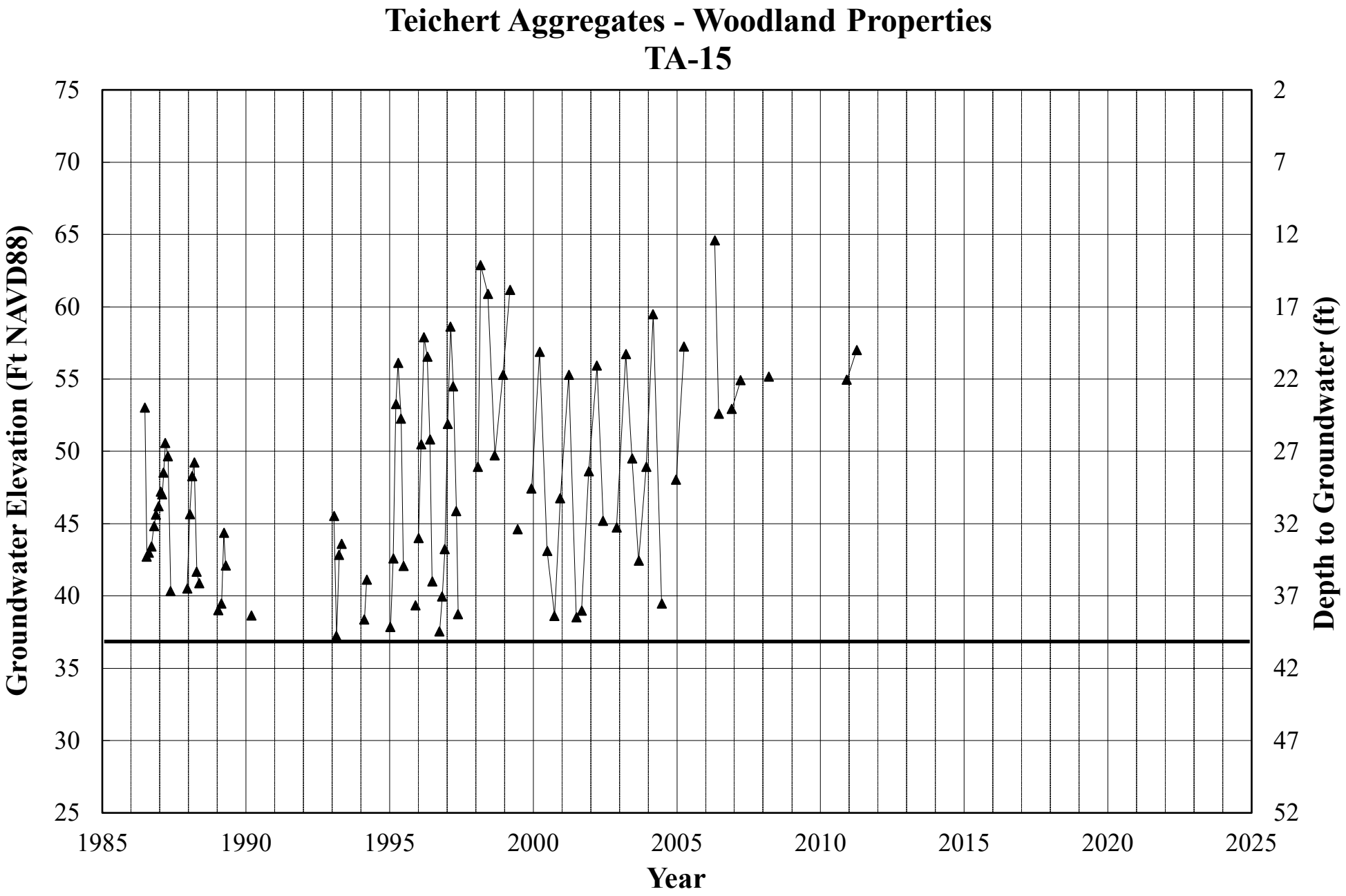

Teichert Aggregates - Woodland Properties
TA-13
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
80
75
70
65
60
55
50
45
40
35
30
16
21
26
31
36
41
46
51
56
61
66
1985
1990
1995
2000
2005
2010
2015
2020
2025

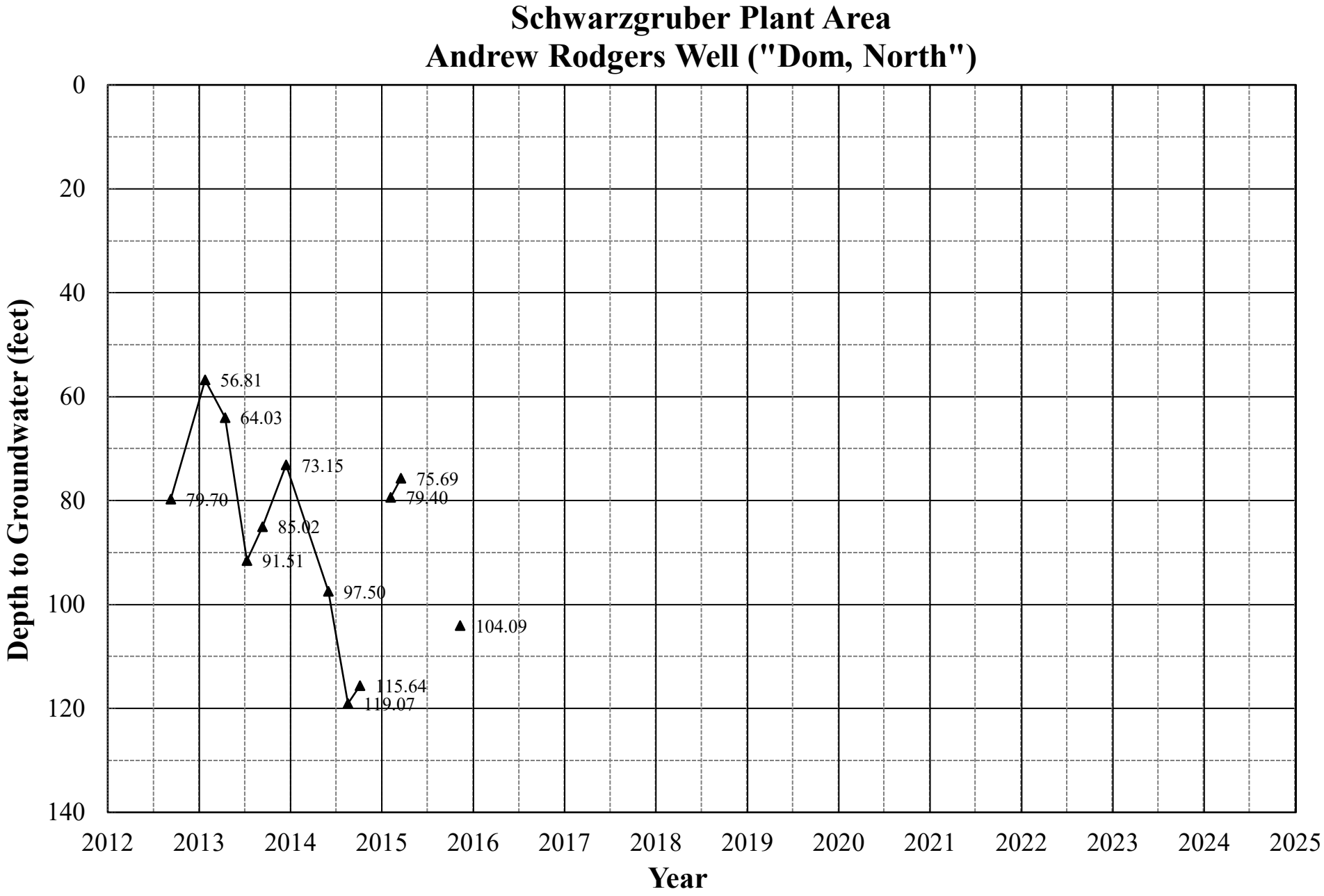

Teichert Aggregates - Woodland Properties
TA-13A
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
80
75
70
65
60
55
50
45
40
35
30
20
25
30
35
40
45
50
55
60
65
70
1985
1990
1995
2000
2005
2010
2015
2020
2025

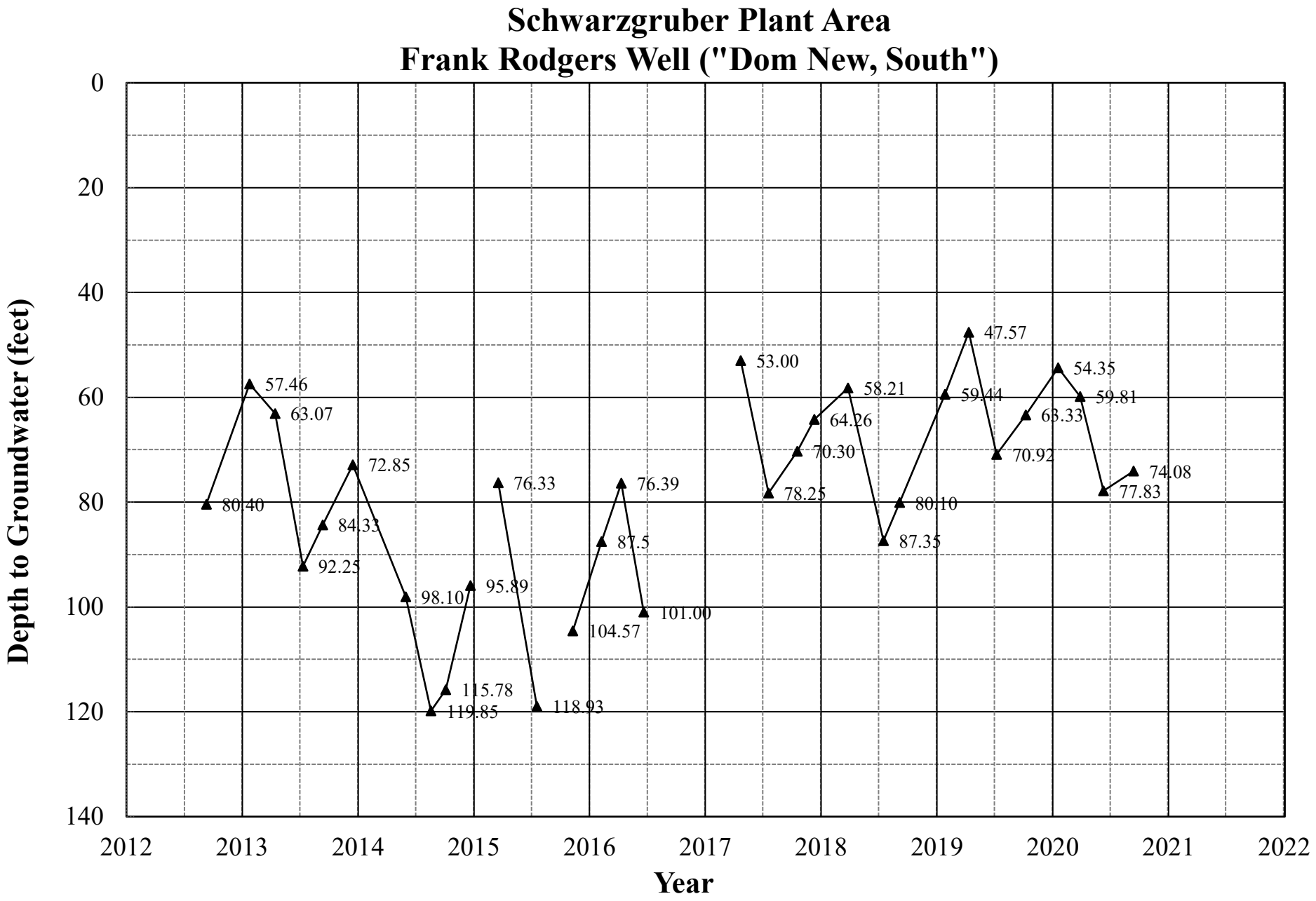

Teichert Aggregates - Woodland Properties
TA-11
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
100
95
90
85
80
75
70
65
60
55
50
5
10
15
20
25
30
35
40
45
50
55
1985
1990
1995
2000
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
TA-18
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
70
65
60
55
50
45
40
35
30
25
20
14
19
24
29
34
39
44
49
54
59
64
1985
1990
1995
2000
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
Schwarzgruber
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
70
65
60
55
50
45
40
35
30
25
20
23
28
33
38
43
48
53
58
63
68
73
1985
1990
1995
2000
2005
2010
2015
2020
2025


Teichert Aggregates - Woodland Properties
TA-15
Groundwater Elevation (Ft NAVD88)
Depth to Groundwater (ft)
Year
75
70
65
60
55
50
45
40
35
30
25
2
7
12
17
22
27
32
37
42
47
52
1985
1990
1995
2000
2005
2010
2015
2020
2025


Schwarzgruber Plant Area
Andrew Rodgers Well ("Dom, North")
Depth to Groundwater (feet)
0
20
40
60
80
100
120
140
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
Year
56.81
64.03
73.15
79.70
75.69
79.40
85.02
91.51
97.50
104.09
115.64
119.07


Schwarzgruber Plant Area
Frank Rodgers Well ("Dom New, South")
Depth to Groundwater (feet)
0
20
40
60
80
100
120
140
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
Year
80.40
57.46
63.07
92.25
84.33
72.85
98.10
119.85
115.78
95.89
76.33
118.93
104.57
87.5
76.39
101.00
53.00
78.25
70.30
64.26
58.21
87.35
80.10
59.44
47.57
70.92
63.33
54.35
59.81
77.83
74.08

Teichert Woodland Groundwater Monitoring Network Date(s) 1/20/2020

Job Number 07-1-004 By Scott

Well	Parcel	Date	Check if all same ✓	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-1A	Coors	1/20/20		1159	22	35	TOC, south rim	39.7	---		
TA-22	Coors		↓	1201	24	67	TOC, south rim	39.0	---		
TA-23	Coors		↓	1204	25	38	TOC, south rim	33.0	---		
TA-3A	Coors		↓	1207	20	24	TOC, south rim	33.0	---		
Coors N	Coors		↓	1211	32	33	Port in pad, N side; bottom of lip	580.0	N		
TA-4	Coors		↓	1212	25	65	TOC, south rim	28.6	---		
TA-5A	Coors		↓	1215	24	52	TOC, south rim	34.3	---		
TA-5	Coors		↓	1217	24	85	TOC, south rim	27.9	---		
TA-6	Coors		↓	1219	24	68	TOC, south rim	28.4	---		Well outside parcel gate
Teich Domestic	Coors		↓	1229	40	18	Plug in plate, S side; south rim	108.0	N		
Muller #2	Coors		↓	1157			Airline	430.0	N	8.5 psi	Airline length = 200 Ft DTW(Ft) = PSI x2.31
TA-25	Storz		√	1128	38	72	TOC, south rim	71.2	---	—	Storz gate key: Master 3207
TA-8	Storz	1/20/20		1132	Dry		TOC, south rim	32.3	---		Storz gate key: Master 3207 Well outside parcel fence Road post painted white
YFC-West	Storz	X		—	—		TOC, south rim	65.0	---	Access Gate Locked	Well cover plate in ground
YFC-East	Storz	X		—	—		Plug in plate, S side; south rim	566.0			Oil will coat sounder line and make buzzer eratic
Stephens	Storz	1/20/20		1144	48	42	TOC, south rim	75.0	---		Cap key: Master 3207

Teichert Woodland Groundwater Monitoring Network Date(s) 1/20/2020

Job Number 07-1-004 By JK

Well	Parcel	Check if all Date same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-10	Haller	1/20/2020	1240	26	41	TOC, south rim	36.3	---		Haller gate key: Master 3207
TA-12	Haller	X	—	—		TOC, south rim	36.3	---	Unaccessable Mudhole	Haller gate key: Master 3207
TA-24	Haller	1/20/2020	1246	Dry		TOC, south rim	45.0	---	Mud on Tip	Haller gate key: Master 3207
TA-11	Haller		1248	Dry		TOC, south rim	39.8	---	Tip Dry	Haller gate key: Master 3207
TA-13A	Muller		1252	46	45	TOC, south rim	61.5	---		Haller gate key: Master 3207 Well near bee hives
TA-13	Muller		1259	Dry		TOC, south rim	39.6	---	Tip Dry	Haller gate key: Master 3207
Muller	Muller		1313	58	36	Casing cut, E side; bottom of cut		---		Muller gate key (smaller lock): American Well cover key: unknown
TA-14	Muller		1317	Dry		TOC, south rim	37.0	---	Tip Dry	Muller gate key: American
TA-18	Schwarz	√	1336	26	31	TOC, south rim	59.8	---		Schwarz Entry Gate key: Master 3207 Cap key: Master 3793
Schwarzgruber	Schwarz	1/20/2020	1340	44	68	TOC, south rim	65.0	---		Schwarz Entry Gate key: Master 3207
Schwarzgruber #2	Schwarz	X	—	—		Plug in plate, W side; south rim	198.0	N	Inaccessible	Schwarz Entry Gate key: Master 3207
Rodgers Dom N	Schwarz	X	—	—		Plug in plate, E side; south rim	165.0	N	Obstruction @ 18'	Shed door key: owner's key buried in gravel, E side well typically blocked at 18'
Rodgers Dom S	Schwarz	1/20/2020	1348	54	35	Plug in plate, W side; south rim	165.0	N		Shed unlocked well typically blocked at 98'
Teich Plant Main	TW Plant	1/20/2020	1356	52	38	PVC Port in plate, S side; south rim	453.0	N		Gate key: Master 3207
TA-16	TW Plant	1/20/2020	1359	Dry		TOC, south rim	40.2	---	Tip Dry	Next to pad w/flight cross

Adams Canal (TA-14) Full and flowing? NO

Moore Canal (YFC) Full and flowing? NO

Luhdorff & Scalmanini
Consulting Engineers

INSPECTOR'S DAILY REPORT

Client: Tetra Tech Woodland
Project Name:
Project No.: 07-1-004
Contractor:
Item(s) of Work: WLS

Date: 1/24/2020
Location:
Day: M T W T (F) S S
Weather:
Time: Arrived: Left:

Time	Description
1214	Onsite Yolo Fliers Club Golf Course
	YFC-West - well cover plate in ground
1217	SWL= @ 38.24' TOC
	YFC-East - Off
1221	SWL= 111.37' TOC
1223	Offsite.
	No water in Canal

Signature:

Teichert Woodland Groundwater Monitoring Network Date(s) 3/30/20

Job Number 07-1-004 By JEH

Well	Parcel	Date	Check if all same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-1A	Coors	3/30		1056	22	98	TOC, south rim	39.7	---		
TA-22	Coors	3/30		1058	25	65	TOC, south rim	39.0	---		
TA-23	Coors	3/30		1202	26	21	TOC, south rim	33.0	---		
TA-3A	Coors	3/30		1030	20	82	TOC, south rim	33.0	---		
Coors N	Coors	3/30		1037	106	21	Port in pad, N side; bottom of lip	580.0			
TA-4	Coors	3/30		1055	26	29	TOC, south rim	28.6	---		
TA-5A	Coors	3/30		1040	25	73	TOC, south rim	34.3	---		
TA-5	Coors	3/30		1042	24	57	TOC, south rim	27.9	---		
TA-6	Coors	3/30		1046	24	77	TOC, south rim	28.4	---		Well outside parcel gate
Teich Domestic	Coors	3/31/20		1230	38	85	Plug in plate, S side; south rim	108.0			
Muller #2	Coors	3/31/20		1220	—	—	Airline	430.0		8.7 psi	Airline length = 200 Ft DTW(Ft) = PSI x2.31
TA-25	Storz	3/30/20		0918	38	05	TOC, south rim	71.2	---		Storz gate key: Master 3207
TA-8	Storz	3/30		0922	Dry		TOC, south rim	32.3	---	Dry Mud on Tip	Storz gate key: Master 3207 Well outside parcel fence Road post painted white
YFC-West	Storz	3/31/20		1200	37	55	TOC, south rim	65.0	---		Well cover plate in ground
YFC-East	Storz	3/31/20		1203	113	24	Plug in plate, S side; south rim	566.0			Oil will coat sounder line and make buzzer eratic
Stephens	Storz	3/30/20		1000	47	32	TOC, south rim	75.0	---	16" well ~3 hrs to purge/sample	Cap key: Master 3207

Storz Pond + Muller Pond

Teichert Woodland Groundwater Monitoring Network Date(s)

Job Number 07-1-004 By

Well	Parcel	Check if all Date same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-10	Haller	3/30	1125	27	63	TOC, south rim	36.3	---		Haller gate key: Master 3207
TA-12	Haller	3/30	1126	31	48	TOC, south rim	36.3	---		Haller gate key: Master 3207
TA-24	Haller	3/30	1134	Dry	—	TOC, south rim	45.0	---	Tip Dry	Haller gate key: Master 3207
TA-11	Haller	3/30	1136	Dry	—	TOC, south rim	39.8	---	Dry Tip	Haller gate key: Master 3207
TA-13A	Muller	3/30	1140	45	52	TOC, south rim	61.5	---		Haller gate key: Master 3207 Well near bee hives
TA-13	Muller	3/30	1210	Dry	—	TOC, south rim	39.6	---	Dry Tip	Haller gate key: Master 3207
Muller	Muller	3/30	1221	58	89	Casing cut, E side; bottom of cut		---		Muller gate key (smaller lock): American Well cover key: unknown
TA-14	Muller	3/30	1225	30	17	TOC, south rim	37.0	---		Muller gate key: American
TA-18	Schwarz	3/30	1255	27	11	TOC, south rim	59.8	---		Schwarz Entry Gate key: Master 3207 Cap key: Master 3793
Schwarzgruber	Schwarz	3/30	1300	43	72	TOC, south rim	65.0	---		Schwarz Entry Gate key: Master 3207
Schwarzgruber #2	Schwarz	3/30	—	—	—	Plug in plate, W side; south rim	198.0		Not Accessible	Schwarz Entry Gate key: Master 3207
Rodgers Dom N	Schwarz					Plug in plate, E side; south rim	165.0			Shed door key: owner's key buried in gravel, E side well typically blocked at 18'
Rodgers Dom S	Schwarz	3/30	1245	59	81	Plug in plate, W side; south rim	165.0			Shed unlocked well typically blocked at 98'
Teich Plant Main	TW Plant	3/31/20	1435	55	41	PVC Port in plate, S side; south rim	453.0			Gate key: Master 3207
TA-16	TW Plant	3/31/20	1422	Dry	—	TOC, south rim	40.2	---	Tip Dry	Next to pad w/flight cross

Adams Canal (TA-14) Full and flowing? ☒ Yes

Moore Canal (YFC) Full and flowing? ☒ Yes

Teichert Woodland Groundwater Monitoring Network Date(s) 6/12/2020

Job Number 07-1-004 By SEF

Well	Parcel	Check if all Date same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-1A	Coors	6/12/20	1031	21	68	TOC, south rim	39.7	---		
TA-22	Coors		1034	23	52	TOC, south rim	39.0	---		
TA-23	Coors		1037	22	89	TOC, south rim	33.0	---		
TA-3A	Coors		1040	18	84	TOC, south rim	33.0	---		
Coors N	Coors		1045	105	23	Port in pad, N side; bottom of lip	580.0	N		
TA-4	Coors		1047	24	92	TOC, south rim	28.6	---		
TA-5A	Coors		1050	25	43	TOC, south rim	34.3	---		
TA-5	Coors		1052	24	37	TOC, south rim	27.9	---		
TA-6	Coors		1056	25	01	TOC, south rim	28.4	---		Well outside parcel gate
Teich Domestic	Coors		1103	42	75	Plug in plate, S side; south rim	108.0	Y		
Muller #2	Coors		1112	—	—	Airline	430.0	N	7.9 psi	Airline length = 200 Ft DTW(Ft) = PSI x2.31
TA-25	Storz	6/12/20	0932	37	61	TOC, south rim	71.2	---		Storz gate key: Master 3207
TA-8	Storz	6/12/20	0935	Dry		TOC, south rim	32.3	---		Storz gate key: Master 3207 Well outside parcel fence Road post painted white
YFC-West	Storz		1126	37	92	TOC, south rim	65.0	---		Well cover plate in ground
YFC-East	Storz		1128	121	73	Plug in plate, S side; south rim	566.0	Y		Oil will coat sounder line and make buzzer erratic
Stephens	Storz	6/12/20	1118	46	34	TOC, south rim	75.0	---		Cap key: Master 3207

Teichert Woodland Groundwater Monitoring Network Date(s) 6/12/2020

Job Number 07-1-004 By SEK

Well	Parcel	Check if all Date same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-10	Haller	6/12/20	0945	27	93	TOC, south rim	36.3	—		Haller gate key: Master 3207
TA-12	Haller	6/12	0950	31	95	TOC, south rim	36.3	—		Haller gate key: Master 3207
TA-24	Haller		0957	Dry	—	TOC, south rim	45.0	—		Haller gate key: Master 3207
TA-11	Haller		1001	Dry	—	TOC, south rim	39.8	—		Haller gate key: Master 3207
TA-13A	Muller		1004	49	26	TOC, south rim	61.5	—		Haller gate key: Master 3207 Well near bee hives
TA-13	Muller		1006	Dry	—	TOC, south rim	39.6	—		Haller gate key: Master 3207
Muller	Muller		1019	67	88	Casing cut, E side; bottom of cut		—		Muller gate key (smaller lock): American Well cover key: unknown
TA-14	Muller		1024	28	35	TOC, south rim	37.0	—		Muller gate key: American
TA-18	Schwarz		1141	26	61	TOC, south rim	59.8	—		Schwarz Entry Gate key: Master 3207 Cap key: Master 3793
Schwarzgruber	Schwarz		1147	42	46	TOC, south rim	65.0	—		Schwarz Entry Gate key: Master 3207
Schwarzgruber #2	Schwarz		—	—	—	Plug in plate, W side; south rim	198.0		Unaccessable.	Schwarz Entry Gate key: Master 3207
Rodgers Dom N	Schwarz		1155	—	—	Plug in plate, E side; south rim	165.0		obstruction	Middle S. Shed door key: owner's key buried in gravel, E side well typically blocked at 18'
Rodgers Dom S	Schwarz		1158	77	83	Plug in plate, W side; south rim	165.0			Shed unlocked well typically blocked at 98'
Teich Plant Main	TW Plant		1210	69	15	PVC Port in plate, S side; south rim	453.0			Gate key: Master 3207
TA-16	TW Plant		1205	Dry	—	TOC, south rim	40.2	—		Next to pad w/flight cross

Adams Canal (TA-14) Full and flowing? ~~No~~ Yes

Moore Canal (YFC) Full and flowing? Yes

Teichert Woodland Groundwater Monitoring Network Date(s) 9/15/2020

Job Number 07-1-004 By C. Jenkins

Well	Parcel	Date	Check if all same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
TA-1A	Coors	9/15		12:28	22	21	TOC, south rim	39.7	—		
TA-22	Coors	9/15		12:36	23	74	TOC, south rim	39.0	—		
TA-23	Coors	9/15		13:01	24	02	TOC, south rim	33.0	—		
TA-3A	Coors	9/15		12:58	17	85	TOC, south rim	33.0	—		
Coors N	Coors	9/15		12:52	131	85	Port in pad, N side; bottom of lip	580.0	No		
TA-4	Coors	9/15		12:50	24	10	TOC, south rim	28.6	—		
TA-5A	Coors	9/15		12:47	25	00	TOC, south rim	34.3	—		
TA-5	Coors	9/15		12:45	24	04	TOC, south rim	27.9	—		
TA-6	Coors	9/15		12:41	25	06	TOC, south rim	28.4	—		Well outside parcel gate
Teich Domestic	Coors	9/15		12:16	45	32	Plug in plate, S side; south rim	108.0	No		
Muller #2	Coors	9/15		13:10	189	4	Airline	430.0	No	4.6 psi = 189.4 Ft	Airline length = 200 Ft DTW(Ft) = PSI x2.31
TA-25	Storz	9/15		13:20	41	97	TOC, south rim	71.2	—		Storz gate key: Master 3207
TA-8	Storz	9/15		13:22	Dry	-	TOC, south rim	32.3	—		Storz gate key: Master 3207 Well outside parcel fence Road post painted white
YFC-West	Storz	9/15		14:05	40	75	TOC, south rim	65.0	—		Well cover plate in ground
YFC-East	Storz	9/15		14:00	139	46	Plug in plate, S side; south rim	566.0	No		Oil will coat sounder line and make buzzer eratic

Teichert Woodland Groundwater Monitoring Network Date(s) 9/15/2020

Job Number 07-1-004 By C. Jenkins

Well	Parcel	Date	Check if all same	Time	DTW (Ft)		Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
Stephens	Storz	9/15		10:40	—	—	TOC, south rim	75.0	—	Plate welded to top of casing, no access	Cap key: Master 3207
TA-10	Haller	9/15		10:55	28	01	TOC, south rim	36.3	—		Haller gate key: Master 3207
TA-12	Haller	9/15		11:01	32	77	TOC, south rim	36.3	—		Haller gate key: Master 3207
TA-24	Haller	9/15		11:10	Dry	—	TOC, south rim	45.0	—		Haller gate key: Master 3207
TA-11	Haller	9/15		11:13	Dry	—	TOC, south rim	39.8	—		Haller gate key: Master 3207
TA-13A	Muller	9/15		11:50	50	89	TOC, south rim	61.5	—		Haller gate key: Master 3207 Well near bee hives
TA-13	Muller	9/15		11:55	Dry	—	TOC, south rim	39.6	—		Haller gate key: Master 3207
Muller	Muller	9/15		12:07	73	55	Casing cut, E side; bottom of cut		—		Muller gate key (smaller lock): American Well cover key: unknown
TA-14	Muller	9/15		12:05	29	77	TOC, south rim	37.0	—		Muller gate key: American
TA-18	Schwarz	9/15		11:35	30	05	TOC, south rim	59.8	—		Schwarz Entry Gate key: Master 3207 Cap key: Master 3793
Schwarzgruber	Schwarz	9/15		11:30	48	15	TOC, south rim	65.0	—		Schwarz Entry Gate key: Master 3207
Schwarzgruber #2	Schwarz	9/15		11:30	—	—	Plug in plate, W side; south rim	198.0	—	No access to well for WL	Schwarz Entry Gate key: Master 3207
Rodgers Dom N	Schwarz	9/15		10:15	—	—	Plug in plate, E side; south rim	165.0	—	No key to access well house	Shed door key: owner's key buried in gravel, E side well typically blocked at 18'
Rodgers Dom S	Schwarz	9/15		10:25	74	08	Plug in plate, W side; south rim	165.0	N		Shed unlocked well typically blocked at 98'
Teich Plant Main	TW Plant	9/15		10:00	82	48	PVC Port in plate, S side; south rim	453.0	N		Gate key: Master 3207
TA-16	TW Plant	9/15		9:50	Dry	—	TOC, south rim	40.2	—		Next to pad w/flight cross

Teichert Woodland Groundwater Monitoring Network Date(s) 9/15/20

Job Number 07-1-004 By C. Jenkins

Well	Parcel	Date	Check if all same	Time	DTW (Ft)	Reference Point	Well Depth (Ft)	Pumping? Y/N	Observations	Site Info
Adams Canal (TA-14)	Full and flowing?		Y							
Moore Canal (YFC)	Full and flowing?		Y							

Analytical Laboratory Reports and Field Notes

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

April 09, 2020

CLS Work Order #: 20C1377
COC #: 204032

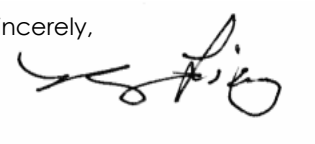
Jeanette Lovelis
Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project Name: MW Samples - TW

Enclosed are the results of analyses for samples received by the laboratory on 03/30/20 15:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

CHAIN OF CUSTODY

CLS ID No.: 201372

LOG № 204032

Total/Field → Al, As, Ba, Cd, Cr, Ca, Fe, Mg, Mn, Pb, Se, + Zn

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

REPORT TO:

NAME AND ADDRESS: LSCE
500 First St.
Woodland, CA 95695

PROJECT MANAGER: Jeanette Lovelis PHONE#: 530-661-0109

PROJECT NAME: MW Samples-TW

SAMPLED BY: JEH

JOB DESCRIPTION: Teichert Woodland

SITE LOCATION: Woodland

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742
☐ OTHER

PRESERVATIVES

ANALYSIS REQUESTED

GEOTRACKER:
EDF REPORT ☐ YES ☐ NO
GLOBAL ID:

CDPH WRITE ON EDT TRANSMISSION? ☐ YES ☐ NO
STATE SYSTEM NUMBER
IF "YES" PLEASE ENTER THE SOURCE NUMBER(S).

COMPOSITE: Grab

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	General Mineral + Turbidity	EPA 8141 + 8151	TPH-Diesel + MO	Coliform-15 tube E.Coli	BTEX	Metals	Total P + BOD
3/30/20	0940	Storz Pond	H_2O	8	-	X	X	X	X	X	X	X	
3/30/20	1200	Muller Pond	H_2O	3	-	X	X			X			X
3/30/20	1430	Schwarzgruber	H_2O	8	-	X	X	X	X	X	X	X	

TURN AROUND TIME: 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY X

SPECIAL INSTRUCTIONS: OR
ALT. ID:

INVOICE TO:

P.O. #

QUOTE #

Email/Address

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Jay Hefferman	Jay Hefferman/LSCE	3/30/20 1545		

RECD AT LAB BY:

DATE / TIME: 3.30.20 / 1545

CONDITIONS / COMMENTS: 1.2/1.2

SHIPPED BY: ☐ FED X ☐ UPS ☐ OTHER AIR BILL #

Gold-Project Mgr./Field Sampler/Terms and conditions
Pink- Origin/Terms and Conditions
Yellow- Lab file copy/Terms and Conditions
White-Lab/Terms and conditions

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # 20C1377

Problem discovered by: SMITH **Date:** 3/30/20

Nature of problem

- Client supplied extra containers, labeled the following - WITH NO REQUESTED ANALYSIS:
- TRIP BLANK
- DI H_2O

Client contacted? Yes X No ____ **Spoke With:** Jeanette Loucks

By whom: M. SMITH **Date:** 3/31/20 **Time:** 0912 HRS

Client instructions:

- TRIP BLANK - analyze only if hit on BTXE
- DI H_2O - DO NOTHING WITH. AS THIS WAS TO BE USED TO CREATE FIELD BLANKS

Resolution of problem:

LOGGED ACCORDINGLY.

3/31/20

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									**QRL-7**
2,4,5-T	ND	0.58	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.23	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.2	"	"	"	"	"	"	
2,4-DB	ND	2.3	"	"	"	"	"	"	
Dalapon	ND	2.3	"	"	"	"	"	"	
Dicamba	ND	1.2	"	"	"	"	"	"	
Dichloroprop	ND	2.3	"	"	"	"	"	"	
Dinoseb	ND	1.2	"	"	"	"	"	"	
MCPA	ND	290	"	"	"	"	"	"	
MCPP	ND	290	"	"	"	"	"	"	
Pentachlorophenol	ND	0.23	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*90 %*		*50-150*		"	"	"	"
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									**QRL-7**
2,4,5-T	ND	0.60	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.24	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.2	"	"	"	"	"	"	
2,4-DB	ND	2.4	"	"	"	"	"	"	
Dalapon	ND	2.4	"	"	"	"	"	"	
Dicamba	ND	1.2	"	"	"	"	"	"	
Dichloroprop	ND	2.4	"	"	"	"	"	"	
Dinoseb	ND	1.2	"	"	"	"	"	"	
MCPA	ND	300	"	"	"	"	"	"	
MCPP	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	0.24	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*77 %*		*50-150*		"	"	"	"

Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project: MW Samples - TW
Project Number: [none]
Project Manager: Jeanette Lovelis

CLS Work Order #: 20C1377
COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
Bicarbonate as CaCO3	**350**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Calcium	**41**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Carbonate as CaCO3	**20**	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**110**	5.0	"	10	2002527	03/31/20	03/31/20	EPA 300.0	
Fluoride	ND	0.10	"	1	"	"	03/31/20	"	
Hardness as CaCO3	**340**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**57**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002543	03/31/20	03/31/20	SM5540 C	
Nitrate as N	**7.3**	0.40	"	"	2002527	03/31/20	03/31/20	EPA 300.0	
pH	**8.47**	0.01	pH Units	"	2002529	03/31/20	03/31/20	SM4500-H B	HT-F
Potassium	**2.8**	1.0	mg/L	"	2002575	04/01/20	04/03/20	EPA 200.7	
Sodium	**100**	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	**1200**	1.0	µmhos/cm	"	2002549	03/31/20	03/31/20	EPA 120.1	
Sulfate as SO4	**110**	5.0	mg/L	10	2002527	03/31/20	03/31/20	EPA 300.0	
Total Alkalinity	**370**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**640**	10	"	"	2002596	04/01/20	04/02/20	SM2540C	
Turbidity	**0.87**	0.10	NTU	"	2002519	03/30/20	03/30/20	EPA 180.1	
Muller Pond (20C1377-02) Water Sampled: 03/30/20 12:00 Received: 03/30/20 15:45									
Bicarbonate as CaCO3	**180**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Biochemical Oxygen Demand	ND	3.0	"	"	2002550	03/31/20	04/05/20	SM5210B	
Calcium	**29**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Carbonate as CaCO3	**30**	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**83**	2.5	"	5	2002527	03/31/20	03/31/20	EPA 300.0	
Fluoride	**0.15**	0.10	"	1	"	"	03/31/20	"	
Hardness as CaCO3	**240**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**40**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002543	03/31/20	03/31/20	SM5540 C	
Nitrate as N	ND	0.40	"	"	2002527	03/31/20	03/31/20	EPA 300.0	
pH	**8.69**	0.01	pH Units	"	2002529	03/31/20	03/31/20	SM4500-H B	HT-F

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Muller Pond (20C1377-02) Water Sampled: 03/30/20 12:00 Received: 03/30/20 15:45									
Potassium	**2.6**	1.0	mg/L	1	2002575	04/01/20	04/03/20	EPA 200.7	
Sodium	**52**	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	**740**	1.0	µmhos/cm	"	2002549	03/31/20	03/31/20	EPA 120.1	
Sulfate as SO4	**48**	2.5	mg/L	5	2002527	03/31/20	03/31/20	EPA 300.0	
Total Alkalinity	**210**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**390**	10	"	"	2002596	04/01/20	04/02/20	SM2540C	
Total Phosphorus as P	ND	0.050	"	"	2002593	04/01/20	04/01/20	SM4500-P E	
Turbidity	**2.4**	0.10	NTU	"	2002519	03/30/20	03/30/20	EPA 180.1	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Bicarbonate as CaCO3	**210**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Calcium	**36**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**64**	2.5	"	5	2002527	03/31/20	03/31/20	EPA 300.0	
Fluoride	**0.20**	0.10	"	1	"	"	03/31/20	"	
Hardness as CaCO3	**220**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**31**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002543	03/31/20	03/31/20	SM5540 C	
Nitrate as N	**0.95**	0.40	"	"	2002527	03/31/20	03/31/20	EPA 300.0	
pH	**7.80**	0.01	pH Units	"	2002529	03/31/20	03/31/20	SM4500-H B	HT-F
Potassium	**2.2**	1.0	mg/L	"	2002575	04/01/20	04/03/20	EPA 200.7	
Sodium	**46**	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	**660**	1.0	µmhos/cm	"	2002549	03/31/20	03/31/20	EPA 120.1	
Sulfate as SO4	**40**	2.5	mg/L	5	2002527	03/31/20	03/31/20	EPA 300.0	
Total Alkalinity	**210**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**360**	10	"	"	2002596	04/01/20	04/02/20	SM2540C	
Turbidity	**1.2**	0.10	NTU	"	2002519	03/30/20	03/30/20	EPA 180.1	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
Diesel	ND	0.050	mg/L	1	2002586	04/01/20	04/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*90 %*	*65-135*		*"*	*"*	*"*	*"*	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Diesel	ND	0.050	mg/L	1	2002586	04/01/20	04/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*89 %*	*65-135*		*"*	*"*	*"*	*"*	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
Aluminum	ND	50	µg/L	1	2002571	04/01/20	04/01/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Barium	**150**	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	"	"	
Iron	ND	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Manganese	ND	10	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002619	04/02/20	04/02/20	EPA 245.1	QC-2H
Selenium	ND	5.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Zinc	ND	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Aluminum	**89**	50	µg/L	1	2002571	04/01/20	04/01/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Barium	**130**	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	"	"	
Iron	**120**	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Manganese	ND	10	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002619	04/02/20	04/02/20	EPA 245.1	QC-2H
Selenium	ND	5.0	"	"	2002554	03/31/20	04/06/20	EPA 200.8	
Zinc	ND	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
E. Coli	**2.0**	1.8	MPN/100 mL	1	2002524	03/30/20	04/03/20	SM 9221	
Fecal Coliforms	**4.0**	1.8	"	"	"	"	"	"	
Total Coliforms	**540**	1.8	"	"	"	"	"	"	
Muller Pond (20C1377-02) Water Sampled: 03/30/20 12:00 Received: 03/30/20 15:45									
E. Coli	**33**	1.8	MPN/100 mL	1	2002524	03/30/20	04/03/20	SM 9221	
Fecal Coliforms	**46**	1.8	"	"	"	"	"	"	
Total Coliforms	**1600**	1.8	"	"	"	"	"	"	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
E. Coli	**350**	1.8	MPN/100 mL	1	2002524	03/30/20	04/03/20	SM 9221	
Fecal Coliforms	**920**	1.8	"	"	"	"	"	"	
Total Coliforms	**1600**	1.8	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
Bolstar	ND	0.050	µg/L	1	2002574	04/01/20	04/01/20	EPA 8141A	
Chlorpyrifos	ND	0.050	"	"	"	"	"	"	
Coumaphos	ND	0.10	"	"	"	"	"	"	
Demeton	ND	0.10	"	"	"	"	"	"	
Diazinon	ND	0.050	"	"	"	"	"	"	
Dichlorvos	ND	0.10	"	"	"	"	"	"	
Disulfoton	ND	0.050	"	"	"	"	"	"	
Ethoprop	ND	0.050	"	"	"	"	"	"	
Fensulfothion	ND	0.050	"	"	"	"	"	"	
Fenthion	ND	0.050	"	"	"	"	"	"	
Guthion	ND	0.10	"	"	"	"	"	"	
Malathion	ND	0.050	"	"	"	"	"	"	
Merphos	ND	0.050	"	"	"	"	"	"	
Methyl parathion	ND	0.050	"	"	"	"	"	"	
Mevinphos	ND	0.050	"	"	"	"	"	"	
Phorate	ND	0.050	"	"	"	"	"	"	
Prothiofos	ND	0.050	"	"	"	"	"	"	
Ronnel	ND	0.050	"	"	"	"	"	"	
Stirophos	ND	0.050	"	"	"	"	"	"	
Trichloronate	ND	0.050	"	"	"	"	"	"	
Surrogate: EPN		*95 %*	*50-150*		"	"	"	"	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Bolstar	ND	0.058	µg/L	1	2002574	04/01/20	04/01/20	EPA 8141A	
Chlorpyrifos	ND	0.058	"	"	"	"	"	"	
Coumaphos	ND	0.12	"	"	"	"	"	"	
Demeton	ND	0.12	"	"	"	"	"	"	
Diazinon	ND	0.058	"	"	"	"	"	"	
Dichlorvos	ND	0.12	"	"	"	"	"	"	
Disulfoton	ND	0.058	"	"	"	"	"	"	
Ethoprop	ND	0.058	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Fensulfothion	ND	0.058	µg/L	1	2002574	"	04/01/20	EPA 8141A	
Fenthion	ND	0.058	"	"	"	"	"	"	
Guthion	ND	0.12	"	"	"	"	"	"	
Malathion	ND	0.058	"	"	"	"	"	"	
Merphos	ND	0.058	"	"	"	"	"	"	
Methyl parathion	ND	0.058	"	"	"	"	"	"	
Mevinphos	ND	0.058	"	"	"	"	"	"	
Phorate	ND	0.058	"	"	"	"	"	"	
Prothiofos	ND	0.058	"	"	"	"	"	"	
Ronnel	ND	0.058	"	"	"	"	"	"	
Stirophos	ND	0.058	"	"	"	"	"	"	
Trichloronate	ND	0.058	"	"	"	"	"	"	
Surrogate: EPN		*98 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20C1377-01) Water Sampled: 03/30/20 09:40 Received: 03/30/20 15:45									
Benzene	ND	0.50	µg/L	1	2002639	04/01/20	04/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*72-125*	"	"	"	"	
Schwarzgruber (20C1377-03) Water Sampled: 03/30/20 14:30 Received: 03/30/20 15:45									
Benzene	ND	0.50	µg/L	1	2002639	04/01/20	04/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*72-125*	"	"	"	"	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002641 - EPA 8151A										
Blank (2002641-BLK1)				Prepared: 04/03/20 Analyzed: 04/08/20						
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	µg/L							
Dalapon	ND	2.0	"							
2,4-DB	ND	2.0	"							
Dicamba	ND	1.0	"							
Dichloroprop	ND	2.0	"							
Dinoseb	ND	1.0	"							
MCPA	ND	250	"							
MCPP	ND	250	"							
Pentachlorophenol	ND	0.20	"							
2,4,5-T	ND	0.50	"							
2,4,5-TP (Silvex)	ND	0.20	"							
Surrogate: 2,4-DCAA	*2.14*		*"*	*2.50*		*86*	*50-150*			
LCS (2002641-BS1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.14	1.0	µg/L	1.25		91	50-150			
Dichloroprop	1.76	2.0	"	1.25		141	50-150			
Surrogate: 2,4-DCAA	*2.01*		*"*	*2.50*		*80*	*50-150*			
LCS Dup (2002641-BSD1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.27	1.0	µg/L	1.25		102	50-150	11	30	
Dichloroprop	1.85	2.0	"	1.25		148	50-150	5	30	
Surrogate: 2,4-DCAA	*2.25*		*"*	*2.50*		*90*	*50-150*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002519 - General										
Blank (2002519-BLK1)				Prepared & Analyzed: 03/30/20						
Turbidity	ND	0.10	NTU							
Duplicate (2002519-DUP1)		**Source: 20C1360-01**		Prepared & Analyzed: 03/30/20						
Turbidity	5.16	0.10	NTU		5.23			1	20	
Batch 2002527 - General Preparation										
Blank (2002527-BLK1)				Prepared & Analyzed: 03/31/20						
Fluoride	ND	0.10	mg/L							
Sulfate as SO4	ND	0.50	"							
Chloride	ND	0.50	"							
Nitrate as N	ND	0.40	"							
LCS (2002527-BS1)				Prepared & Analyzed: 03/31/20						
Chloride	4.75	0.50	mg/L	5.00		95	80-120			
Fluoride	1.99	0.10	"	2.00		100	80-120			
Sulfate as SO4	4.92	0.50	"	5.00		98	80-120			
Nitrate as N	2.01	0.40	"	2.00		100	80-120			
LCS Dup (2002527-BSD1)				Prepared & Analyzed: 03/31/20						
Sulfate as SO4	4.80	0.50	mg/L	5.00		96	80-120	3	20	
Chloride	4.77	0.50	"	5.00		95	80-120	0.5	20	
Fluoride	2.03	0.10	"	2.00		101	80-120	2	20	
Nitrate as N	2.03	0.40	"	2.00		101	80-120	1	20	
Matrix Spike (2002527-MS1)		**Source: 20C1374-01**		Prepared & Analyzed: 03/31/20						
Fluoride	2.03	0.10	mg/L	2.00	0.0667	98	80-120			
Chloride	30.0	0.50	"	5.00	25.7	85	80-120			
Sulfate as SO4	19.5	0.50	"	5.00	14.3	103	80-120			
Nitrate as N	2.30	0.40	"	2.00	0.355	97	80-120			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002527 - General Preparation										
Matrix Spike Dup (2002527-MSD1)	**Source: 20C1374-01**			Prepared & Analyzed: 03/31/20						
Chloride	30.0	0.50	mg/L	5.00	25.7	85	80-120	0.05	20	
Sulfate as SO4	19.5	0.50	"	5.00	14.3	103	80-120	0.05	20	
Fluoride	2.01	0.10	"	2.00	0.0667	97	80-120	0.7	20	
Nitrate as N	2.27	0.40	"	2.00	0.355	96	80-120	1	20	
Batch 2002529 - General Prep										
Duplicate (2002529-DUP1)	**Source: 20C1377-01**			Prepared & Analyzed: 03/31/20						
pH	8.49	0.01	pH Units		8.47			0.236	20	
Batch 2002543 - General Preparation										
Blank (2002543-BLK1)				Prepared & Analyzed: 03/31/20						
MBAS as LAS, mol wt 340	ND	0.10	mg/L							
LCS (2002543-BS1)				Prepared & Analyzed: 03/31/20						
MBAS as LAS, mol wt 340	0.509	0.10	mg/L	0.500		102	80-120			
LCS Dup (2002543-BSD1)				Prepared & Analyzed: 03/31/20						
MBAS as LAS, mol wt 340	0.490	0.10	mg/L	0.500		98	80-120	4	20	
Matrix Spike (2002543-MS1)	**Source: 20C1352-01**			Prepared & Analyzed: 03/31/20						
MBAS as LAS, mol wt 340	0.504	0.10	mg/L	0.500	ND	101	75-125			
Matrix Spike Dup (2002543-MSD1)	**Source: 20C1352-01**			Prepared & Analyzed: 03/31/20						
MBAS as LAS, mol wt 340	0.493	0.10	mg/L	0.500	ND	99	75-125	2	25	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002549 - General Preparation										
Blank (2002549-BLK1)				Prepared & Analyzed: 03/31/20						
Specific Conductance (EC)	ND	1.0	µmhos/cm							
Duplicate (2002549-DUP1)		**Source: 20C1352-01**		Prepared & Analyzed: 03/31/20						
Specific Conductance (EC)	335	1.0	µmhos/cm		326			2.72	20	
Batch 2002550 - General										
Blank (2002550-BLK1)				Prepared: 03/31/20 Analyzed: 04/05/20						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (2002550-BS1)				Prepared: 03/31/20 Analyzed: 04/05/20						
Biochemical Oxygen Demand	198	3.0	mg/L	167		119	83-138			
LCS Dup (2002550-BSD1)				Prepared: 03/31/20 Analyzed: 04/05/20						
Biochemical Oxygen Demand	192	3.0	mg/L	167		115	83-138	3	21	
Batch 2002575 - 6010A/No Digestion										
Blank (2002575-BLK1)				Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	ND	1.0	mg/L							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2002575-BS1)				Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	4.69	1.0	mg/L	5.00		94	85-115			
Hardness as CaCO3	32.8	1.0	"	33.1		99	85-115			
Magnesium	5.08	1.0	"	5.00		102	85-115			
Potassium	5.34	1.0	"	5.00		107	85-115			
Sodium	4.62	1.0	"	5.00		92	85-115			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002575 - 6010A/No Digestion										
Matrix Spike (2002575-MS1)	**Source: 20C1377-01**			Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	44.9	1.0	mg/L	5.00	41.1	75	70-130			
Hardness as CaCO3	357	1.0	"	33.1	336	61	70-130			QM-7
Magnesium	58.9	1.0	"	5.00	56.7	44	70-130			QM-7
Potassium	7.98	1.0	"	5.00	2.81	103	70-130			
Sodium	101	1.0	"	5.00	101	NR	70-130			QM-7
Batch 2002578 - General Prep										
Blank (2002578-BLK1)				Prepared & Analyzed: 04/01/20						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							
Duplicate (2002578-DUP1)	**Source: 20C1352-01**			Prepared & Analyzed: 04/01/20						
Total Alkalinity	125	5.0	mg/L		124			1	20	
Bicarbonate as CaCO3	125	5.0	"		124			1	20	
Carbonate as CaCO3	ND	5.0	"		ND				20	
Hydroxide as CaCO3	ND	5.0	"		ND				20	
Batch 2002593 - General Preparation										
Blank (2002593-BLK1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	ND	0.050	mg/L							
LCS (2002593-BS1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.307	0.050	mg/L	0.300		102	80-120			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002593 - General Preparation										
LCS Dup (2002593-BSD1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.310	0.050	mg/L	0.300		103	80-120	1	25	
Matrix Spike (2002593-MS1)		**Source: 20C1407-01**		Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.353	0.050	mg/L	0.300	0.0675	95	75-125			
Matrix Spike Dup (2002593-MSD1)		**Source: 20C1407-01**		Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.358	0.050	mg/L	0.300	0.0675	97	75-125	2	30	
Batch 2002596 - General Preparation										
Blank (2002596-BLK1)				Prepared: 04/01/20 Analyzed: 04/02/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (2002596-DUP1)		**Source: 20C1339-02**		Prepared: 04/01/20 Analyzed: 04/02/20						
Total Dissolved Solids	ND	10	mg/L		ND				20	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002586 - EPA 3510B GCNV										
Blank (2002586-BLK1)				Prepared & Analyzed: 04/01/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0289*		*"*	*0.0250*		*116*	*65-135*			
LCS (2002586-BS1)				Prepared & Analyzed: 04/01/20						
Diesel	1.83	0.050	mg/L	2.50		73	65-135			
Surrogate: o-Terphenyl	*0.0260*		*"*	*0.0250*		*104*	*65-135*			
LCS Dup (2002586-BSD1)				Prepared & Analyzed: 04/01/20						
Diesel	1.66	0.050	mg/L	2.50		67	65-135	10	30	
Surrogate: o-Terphenyl	*0.0226*		*"*	*0.0250*		*91*	*65-135*			
Matrix Spike (2002586-MS1)	**Source: 20C1407-05**			Prepared & Analyzed: 04/01/20						
Diesel	1.75	0.050	mg/L	2.50	ND	70	46-137			
Surrogate: o-Terphenyl	*0.0240*		*"*	*0.0250*		*96*	*65-135*			
Matrix Spike Dup (2002586-MSD1)	**Source: 20C1407-05**			Prepared & Analyzed: 04/01/20						
Diesel	1.75	0.050	mg/L	2.50	ND	70	46-137	0.1	30	
Surrogate: o-Terphenyl	*0.0247*		*"*	*0.0250*		*99*	*65-135*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002554 - EPA 200 Series										
Blank (2002554-BLK1)				Prepared: 03/31/20 Analyzed: 04/01/20						
Arsenic	ND	2.0	µg/L							
Cadmium	ND	0.50	"							
Chromium	ND	1.0	"							
Copper	ND	2.0	"							
Lead	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Silver	ND	0.50	"							
Zinc	ND	10	"							
LCS (2002554-BS1)				Prepared: 03/31/20 Analyzed: 04/01/20						
Arsenic	98.7	2.0	µg/L	100		99	85-115			
Cadmium	107	0.50	"	100		107	85-115			
Chromium	113	1.0	"	100		113	85-115			
Copper	101	2.0	"	100		101	85-115			
Lead	106	5.0	"	100		106	85-115			
Nickel	102	2.0	"	100		102	85-115			
Selenium	94.6	5.0	"	100		95	85-115			
Silver	103	0.50	"	100		103	85-115			
Zinc	90.5	10	"	100		91	85-115			
Matrix Spike (2002554-MS1)	**Source: 20C1249-01**			Prepared: 03/31/20 Analyzed: 04/01/20						
Arsenic	97.2	2.0	µg/L	100	0.810	96	70-130			
Cadmium	104	0.50	"	100	ND	104	70-130			
Chromium	111	1.0	"	100	3.03	108	70-130			
Copper	289	2.0	"	100	198	91	70-130			
Lead	117	5.0	"	100	8.29	109	70-130			
Nickel	234	2.0	"	100	137	97	70-130			
Selenium	92.4	5.0	"	100	0.860	92	70-130			
Silver	65.7	0.50	"	100	0.790	65	70-130			QM-7
Zinc	406	10	"	100	328	77	70-130			

Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project: MW Samples - TW
Project Number: [none]
Project Manager: Jeanette Lovelis

CLS Work Order #: 20C1377
COC #: 204032

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002554 - EPA 200 Series										
Matrix Spike (2002554-MS2)	**Source: 20C1397-01**			Prepared: 03/31/20 Analyzed: 04/01/20						
Arsenic	108	2.0	µg/L	100	2.19	106	70-130			
Cadmium	106	0.50	"	100	ND	106	70-130			
Chromium	107	1.0	"	100	2.74	104	70-130			
Copper	89.6	2.0	"	100	0.390	89	70-130			
Lead	108	5.0	"	100	0.0200	108	70-130			
Nickel	92.5	2.0	"	100	0.140	92	70-130			
Selenium	105	5.0	"	100	1.83	103	70-130			
Silver	90.2	0.50	"	100	ND	90	70-130			
Zinc	86.7	10	"	100	ND	87	70-130			
Batch 2002571 - EPA 200 Series										
Blank (2002571-BLK1)				Prepared & Analyzed: 04/01/20						
Aluminum	ND	50	µg/L							
Barium	ND	20	"							
Cadmium	ND	10	"							
Calcium	ND	1000	"							
Chromium	ND	10	"							
Copper	ND	10	"							
Iron	ND	100	"							
Manganese	ND	10	"							
Zinc	ND	20	"							
LCS (2002571-BS1)				Prepared & Analyzed: 04/01/20						
Aluminum	5140	50	µg/L	5000		103	85-115			
Barium	995	20	"	1000		100	85-115			
Cadmium	1100	10	"	1000		110	85-115			
Calcium	5160	1000	"	5000		103	85-115			
Chromium	1060	10	"	1000		106	85-115			
Copper	1080	10	"	1000		108	85-115			
Iron	1090	100	"	1000		109	85-115			
Manganese	1070	10	"	1000		107	85-115			
Zinc	1040	20	"	1000		104	85-115			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002571 - EPA 200 Series										
Matrix Spike (2002571-MS1)	**Source: 20C1352-01**			Prepared & Analyzed: 04/01/20						
Aluminum	5340	50	µg/L	5000	26.2	106	70-130			
Barium	1080	20	"	1000	66.4	101	70-130			
Cadmium	1100	10	"	1000	ND	110	70-130			
Calcium	29600	1000	"	5000	24500	102	70-130			
Chromium	1040	10	"	1000	ND	104	70-130			
Copper	1080	10	"	1000	ND	108	70-130			
Iron	1160	100	"	1000	73.9	109	70-130			
Manganese	1050	10	"	1000	1.93	105	70-130			
Zinc	1070	20	"	1000	ND	107	70-130			
Matrix Spike (2002571-MS2)	**Source: 20C1429-04**			Prepared & Analyzed: 04/01/20						
Aluminum	5330	50	µg/L	5000	ND	107	70-130			
Barium	1310	20	"	1000	234	107	70-130			
Cadmium	1030	10	"	1000	ND	103	70-130			
Calcium	61100	1000	"	5000	47600	270	70-130			QM-7
Chromium	1070	10	"	1000	ND	107	70-130			
Copper	978	10	"	1000	ND	98	70-130			
Iron	1400	100	"	1000	191	121	70-130			
Manganese	1860	10	"	1000	856	101	70-130			
Zinc	943	20	"	1000	ND	94	70-130			
Batch 2002619 - EPA 7470A										
Blank (2002619-BLK1)				Prepared & Analyzed: 04/02/20						
Mercury	ND	0.20	µg/L							
LCS (2002619-BS1)				Prepared & Analyzed: 04/02/20						
Mercury	5.28	0.20	µg/L	5.00		106	85-115			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002619 - EPA 7470A										
Matrix Spike (2002619-MS1)		**Source: 20C1377-01**		Prepared & Analyzed: 04/02/20						
Mercury	5.32	0.20	µg/L	5.00	ND	106	70-130			
Matrix Spike Dup (2002619-MSD1)		**Source: 20C1377-01**		Prepared & Analyzed: 04/02/20						
Mercury	4.93	0.20	µg/L	5.00	ND	99	70-130	7	25	

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002574 - EPA 3510B GCNV										
Blank (2002574-BLK1)				Prepared & Analyzed: 04/01/20						
Bolstar	ND	0.050	µg/L							
Chlorpyrifos	ND	0.050	"							
Coumaphos	ND	0.10	"							
Demeton	ND	0.10	"							
Diazinon	ND	0.050	"							
Dichlorvos	ND	0.10	"							
Disulfoton	ND	0.050	"							
Ethoprop	ND	0.050	"							
Fensulfothion	ND	0.050	"							
Fenthion	ND	0.050	"							
Guthion	ND	0.10	"							
Malathion	ND	0.050	"							
Merphos	ND	0.050	"							
Methyl parathion	ND	0.050	"							
Mevinphos	ND	0.050	"							
Phorate	ND	0.050	"							
Prothiofos	ND	0.050	"							
Ronnel	ND	0.050	"							
Stirophos	ND	0.050	"							
Trichloronate	ND	0.050	"							
Surrogate: EPN	*2.18*		*"*	*2.50*		*87*	*50-150*			
LCS (2002574-BS1)				Prepared & Analyzed: 04/01/20						
Methyl parathion	0.262	0.050	µg/L	0.250		105	50-150			
Ronnel	0.243	0.050	"	0.250		97	50-150			
Stirophos	0.292	0.050	"	0.250		117	50-150			
Trichloronate	0.237	0.050	"	0.250		95	50-150			
Surrogate: EPN	*2.40*		*"*	*2.50*		*96*	*50-150*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002574 - EPA 3510B GCNV										
LCS Dup (2002574-BSD1)				Prepared & Analyzed: 04/01/20						
Methyl parathion	0.256	0.050	µg/L	0.250		102	50-150	2	30	
Ronnel	0.238	0.050	"	0.250		95	50-150	2	30	
Stirophos	0.290	0.050	"	0.250		116	50-150	0.6	30	
Trichloronate	0.245	0.050	"	0.250		98	50-150	3	30	
Surrogate: EPN	*2.26*		*"*	*2.50*		*90*	*50-150*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002639 - EPA 5030 Water MS										
Blank (2002639-BLK1)				Prepared & Analyzed: 04/01/20						
Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Naphthalene	ND	0.50	"							
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*72-125*			
LCS (2002639-BS1)				Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	22.3	0.50	µg/L	20.0		112	52-130			
Benzene	21.3	0.50	"	20.0		106	52-130			
Surrogate: Toluene-d8	*9.71*		*"*	*10.0*		*97*	*72-125*			
LCS Dup (2002639-BSD1)				Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	20.9	0.50	µg/L	20.0		104	52-130	7	30	
Benzene	21.6	0.50	"	20.0		108	52-130	1	30	
Surrogate: Toluene-d8	*9.68*		*"*	*10.0*		*97*	*72-125*			
Matrix Spike (2002639-MS1)	**Source: 20C1397-01**			Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	21.3	0.50	µg/L	20.0	ND	107	52-140			
Benzene	23.4	0.50	"	20.0	ND	117	52-140			
Surrogate: Toluene-d8	*9.63*		*"*	*10.0*		*96*	*72-125*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002639 - EPA 5030 Water MS										
Matrix Spike Dup (2002639-MSD1)	**Source: 20C1397-01**			Prepared: 04/01/20 Analyzed: 04/02/20						
Methyl tert-butyl ether	21.7	0.50	µg/L	20.0	ND	109	52-140	2	30	
Benzene	23.0	0.50	"	20.0	ND	115	52-140	2	30	
Surrogate: Toluene-d8	*9.73*		*"*	*10.0*		*97*	*72-125*			

Luhdorff & Scalmanini	Project:	MW Samples - TW	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1377**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204032

Notes and Definitions

QRL-7	The initial volume was decreased or the final volume of the extract was increased due to matrix interference, which resulted in higher reporting limits.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
HT-F	This is a field test method and it is performed in the lab outside holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

April 13, 2020

CLS Work Order #: 20C1429
COC #: 204033

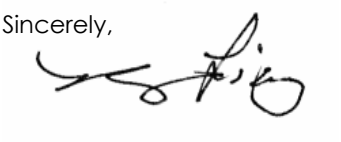
Jeanette Lovelis
Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project Name: Teichert Woodland

Enclosed are the results of analyses for samples received by the laboratory on 03/31/20 16:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

20C1429

CHAIN OF CUSTODY CLS ID No.: _____ LOG № 204033

→ #1, Ag, Ba, Ca, Cr, Cu, Fe, Mg, Mn, Pb, Se, + Zn

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

REPORT TO:

NAME AND ADDRESS: LSCE
500 First St.
Woodland, CA 95695
PROJECT MANAGER: Jeanette L. PHONE#: 530-661-0109
PROJECT NAME: Teichert Woodland
SAMPLED BY: JLH
JOB DESCRIPTION: Mw Sample
SITE LOCATION: Woodland Area

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742
☐ OTHER

PRESERVATIVES

ANALYSIS REQUESTED

GEOTRACKER:
EDF REPORT ☐ YES ☐ NO
GLOBAL ID: _____

COPH WRITE ON EDT TRANSMISSION? ☐ YES ☐ NO
STATE SYSTEM NUMBER _____
IF "YES" PLEASE ENTER THE SOURCE NUMBER(S).

COMPOSITE: Grab

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	General Mineral + Turbidity	EPA 8141 + EPA 8151	TPH Diesel + MO	Coliform-15 tube E.coli Total	BTEX	Metals	Total P + BOD	TURN AROUND TIME 1 DAY	2 DAY	3 DAY	5 DAY
3/31/20	1015	TA-25	H_2O	8	—	X	X	X	X	X	X	X					
3/31/20	1140	TA-13A	H_2O	3	—	X	X			X			X				
3/31/20	1315	TA-18	H_2O	8	—	X	X	X	X	X	X	X					
3/31/20	1445	Stephens	H_2O	8	—	X	X	X	X	X	X	X					
3/31/20		Trip Blank															
3/31/20		Field Blank															

SPECIAL INSTRUCTIONS
OR
ALT. ID:

INVOICE TO:
P.O. #
QUOTE #

Email/Address

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Jay Heffernan/LSCE	3/31/20 1600		

REC'D AT LAB BY: [signature] DATE / TIME: 3/31/2020 1600 CONDITIONS / COMMENTS: 2.1/2.1

SHIPPED BY: ☐ FED X ☐ UPS ☐ OTHER _____ AIR BILL #

White-Lab/Terms and conditions Yellow- Lab file copy/Terms and Conditions Pink - Origin/Terms and Conditions Gold-Project Mgr./Field Sampler/Terms and conditions

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # 20C1429

Problem discovered by: _____ **Date:** 3/31/20

Nature of problem

Sulfite **Chlorine, Total** **Chlorine, Residual** **Ph** **Dissolved O2**

(Circle analysis above) **Received out of HOLD time.**

Client contacted? Yes _____ **No** _____ **Spoke With:** _____

By whom: _____ **Date:** ___/___/___ **Time:** _____ **HRS**

Client instructions:

Resolution of problem:

Logged in regardless and will be ran for analysis requested.

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									**QRL-7**
2,4,5-T	ND	0.61	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.25	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.2	"	"	"	"	"	"	
2,4-DB	ND	2.5	"	"	"	"	"	"	
Dalapon	ND	2.5	"	"	"	"	"	"	
Dicamba	ND	1.2	"	"	"	"	"	"	
Dichloroprop	ND	2.5	"	"	"	"	"	"	
Dinoseb	ND	1.2	"	"	"	"	"	"	
MCPA	ND	310	"	"	"	"	"	"	
MCPP	ND	310	"	"	"	"	"	"	
Pentachlorophenol	ND	0.25	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*93 %*		*50-150*		"	"	"	"
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
2,4,5-T	ND	0.50	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.20	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	"	"	"	"	"	"	
2,4-DB	ND	2.0	"	"	"	"	"	"	
Dalapon	ND	2.0	"	"	"	"	"	"	
Dicamba	ND	1.0	"	"	"	"	"	"	
Dichloroprop	ND	2.0	"	"	"	"	"	"	
Dinoseb	ND	1.0	"	"	"	"	"	"	
MCPA	ND	250	"	"	"	"	"	"	
MCPP	ND	250	"	"	"	"	"	"	
Pentachlorophenol	ND	0.20	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*52 %*		*50-150*		"	"	"	"

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									**QRL-7**
2,4,5-T	ND	0.56	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.22	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.1	"	"	"	"	"	"	
2,4-DB	ND	2.2	"	"	"	"	"	"	
Dalapon	ND	2.2	"	"	"	"	"	"	
Dicamba	ND	1.1	"	"	"	"	"	"	
Dichloroprop	ND	2.2	"	"	"	"	"	"	
Dinoseb	ND	1.1	"	"	"	"	"	"	
MCPA	ND	280	"	"	"	"	"	"	
MCPP	ND	280	"	"	"	"	"	"	
Pentachlorophenol	ND	0.22	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*79 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
Bicarbonate as CaCO3	**330**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Calcium	**68**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**77**	2.5	"	5	2002564	04/01/20	04/01/20	EPA 300.0	
Fluoride	**0.11**	0.10	"	1	"	"	04/01/20	"	
Hardness as CaCO3	**370**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**48**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002589	04/01/20	04/01/20	SM5540 C	
Nitrate as N	**2.4**	0.40	"	"	2002564	04/01/20	04/01/20	EPA 300.0	
pH	**7.71**	0.01	pH Units	"	2002565	04/01/20	04/01/20	SM4500-H B	HT-F
Potassium	**3.4**	1.0	mg/L	"	2002571	04/01/20	04/02/20	EPA 200.7	
Sodium	**62**	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	**1000**	1.0	µmhos/cm	"	2002584	04/01/20	04/01/20	EPA 120.1	
Sulfate as SO4	**100**	2.5	mg/L	5	2002564	04/01/20	04/01/20	EPA 300.0	
Total Alkalinity	**330**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**580**	10	"	"	2002631	04/02/20	04/03/20	SM2540C	
Turbidity	**2.8**	0.10	NTU	"	2002598	04/01/20	04/01/20	EPA 180.1	
TA-13A (20C1429-02) Water Sampled: 03/31/20 11:40 Received: 03/31/20 16:00									
Bicarbonate as CaCO3	**270**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Biochemical Oxygen Demand	ND	3.0	"	"	2002590	04/01/20	04/06/20	SM5210B	
Calcium	**43**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**85**	2.5	"	5	2002564	04/01/20	04/01/20	EPA 300.0	
Fluoride	**0.14**	0.10	"	1	"	"	04/01/20	"	
Hardness as CaCO3	**260**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**37**	1.0	"	"	2002575	04/01/20	04/03/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002589	04/01/20	04/01/20	SM5540 C	
Nitrate as N	**2.5**	0.40	"	"	2002564	04/01/20	04/01/20	EPA 300.0	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-13A (20C1429-02) Water Sampled: 03/31/20 11:40 Received: 03/31/20 16:00									
pH	**7.66**	0.01	pH Units	1	2002565	04/01/20	04/01/20	SM4500-H B	HT-F
Potassium	**2.6**	1.0	mg/L	"	2002575	04/01/20	04/03/20	EPA 200.7	
Sodium	**58**	1.0	"	"	"	"	"	"	
Specific Conductance (EC)	**820**	1.0	µmhos/cm	"	2002584	04/01/20	04/01/20	EPA 120.1	
Sulfate as SO4	**45**	2.5	mg/L	5	2002564	04/01/20	04/01/20	EPA 300.0	
Total Alkalinity	**270**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**440**	10	"	"	2002631	04/02/20	04/03/20	SM2540C	
Total Phosphorus as P	ND	0.050	"	"	2002593	04/01/20	04/01/20	SM4500-P E	
Turbidity	**2.8**	0.10	NTU	"	2002598	04/01/20	04/01/20	EPA 180.1	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Bicarbonate as CaCO3	**270**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Calcium	**44**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**92**	2.5	"	5	2002564	04/01/20	04/01/20	EPA 300.0	
Fluoride	**0.14**	0.10	"	1	"	"	04/01/20	"	
Hardness as CaCO3	**290**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**45**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002589	04/01/20	04/01/20	SM5540 C	
Nitrate as N	**2.7**	0.40	"	"	2002564	04/01/20	04/01/20	EPA 300.0	
pH	**7.82**	0.01	pH Units	"	2002565	04/01/20	04/01/20	SM4500-H B	HT-F
Potassium	**2.4**	1.0	mg/L	"	2002571	04/01/20	04/06/20	EPA 200.7	
Sodium	**59**	1.0	"	"	"	"	04/02/20	"	
Specific Conductance (EC)	**880**	1.0	µmhos/cm	"	2002584	04/01/20	04/01/20	EPA 120.1	
Sulfate as SO4	**46**	2.5	mg/L	5	2002564	04/01/20	04/01/20	EPA 300.0	
Total Alkalinity	**270**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**460**	10	"	"	2002631	04/02/20	04/03/20	SM2540C	
Turbidity	**2.7**	0.10	NTU	"	2002598	04/01/20	04/01/20	EPA 180.1	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Bicarbonate as CaCO3	**380**	5.0	mg/L	1	2002578	04/01/20	04/01/20	SM2320B	
Calcium	**48**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Chloride	**110**	2.5	"	5	2002564	04/01/20	04/01/20	EPA 300.0	
Fluoride	**0.13**	0.10	"	1	"	"	04/01/20	"	
Hardness as CaCO3	**370**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002578	04/01/20	04/01/20	SM2320B	
Magnesium	**60**	1.0	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002589	04/01/20	04/01/20	SM5540 C	
Nitrate as N	ND	0.40	"	"	2002564	04/01/20	04/01/20	EPA 300.0	
pH	**7.69**	0.01	pH Units	"	2002565	04/01/20	04/01/20	SM4500-H B	HT-F
Potassium	**2.5**	1.0	mg/L	"	2002571	04/01/20	04/06/20	EPA 200.7	
Sodium	**82**	1.0	"	"	"	"	04/02/20	"	
Specific Conductance (EC)	**1200**	1.0	µmhos/cm	"	2002584	04/01/20	04/01/20	EPA 120.1	
Sulfate as SO4	**120**	2.5	mg/L	5	2002564	04/01/20	04/01/20	EPA 300.0	
Total Alkalinity	**380**	5.0	"	1	2002578	04/01/20	04/01/20	SM2320B	
Total Dissolved Solids	**670**	10	"	"	2002631	04/02/20	04/03/20	SM2540C	
Turbidity	**1.3**	0.10	NTU	"	2002598	04/01/20	04/01/20	EPA 180.1	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
Diesel	ND	0.050	mg/L	1	2002586	04/01/20	04/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*92 %*	*65-135*		"	"	"	"	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Diesel	ND	0.050	mg/L	1	2002586	04/01/20	04/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*103 %*	*65-135*		"	"	"	"	
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Diesel	ND	0.050	mg/L	1	2002586	04/01/20	04/01/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*106 %*	*65-135*		"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
Aluminum	**290**	50	µg/L	1	2002571	04/01/20	04/01/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002616	04/02/20	04/02/20	EPA 200.8	
Barium	**200**	20	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	04/01/20	"	
Calcium	**68000**	1000	"	"	"	"	04/02/20	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	04/01/20	"	
Iron	**240**	100	"	"	"	"	04/02/20	"	
Lead	ND	5.0	"	"	2002616	04/02/20	04/02/20	EPA 200.8	
Manganese	ND	10	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002619	04/02/20	04/02/20	EPA 245.1	QC-2H
Selenium	ND	5.0	"	"	2002616	04/02/20	04/02/20	EPA 200.8	
Zinc	ND	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Aluminum	**120**	50	µg/L	1	2002571	04/01/20	04/01/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Barium	**150**	20	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	04/01/20	"	
Calcium	**44000**	1000	"	"	"	"	04/02/20	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	04/01/20	"	
Iron	**250**	100	"	"	"	"	04/02/20	"	
Lead	ND	5.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Manganese	ND	10	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002619	04/02/20	04/02/20	EPA 245.1	QC-2H
Selenium	ND	5.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Zinc	ND	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Aluminum	ND	50	µg/L	1	2002571	04/01/20	04/01/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Barium	**230**	20	"	"	2002571	04/01/20	04/02/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	04/01/20	"	
Calcium	**48000**	1000	"	"	"	"	04/02/20	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	04/01/20	"	
Iron	**190**	100	"	"	"	"	04/02/20	"	
Lead	ND	5.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Manganese	**860**	10	"	"	2002571	04/01/20	04/01/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002619	04/02/20	04/02/20	EPA 245.1	QC-2H
Selenium	ND	5.0	"	"	2002616	04/02/20	04/03/20	EPA 200.8	
Zinc	ND	20	"	"	2002571	04/01/20	04/01/20	EPA 200.7	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
E. Coli	<1.8	1.8	MPN/100 mL	1	2002559	03/31/20	04/02/20	SM 9221	
Fecal Coliforms	<1.8	1.8	"	"	"	"	"	"	
Total Coliforms	<1.8	1.8	"	"	"	"	"	"	
TA-13A (20C1429-02) Water Sampled: 03/31/20 11:40 Received: 03/31/20 16:00									
E. Coli	**14**	1.8	MPN/100 mL	1	2002559	03/31/20	04/04/20	SM 9221	
Fecal Coliforms	**49**	1.8	"	"	"	"	"	"	
Total Coliforms	**49**	1.8	"	"	"	"	"	"	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
E. Coli	**2.0**	1.8	MPN/100 mL	1	2002559	03/31/20	04/04/20	SM 9221	
Fecal Coliforms	**2.0**	1.8	"	"	"	"	"	"	
Total Coliforms	**2.0**	1.8	"	"	"	"	"	"	
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
E. Coli	<1.8	1.8	MPN/100 mL	1	2002559	03/31/20	04/04/20	SM 9221	
Fecal Coliforms	**2.0**	1.8	"	"	"	"	"	"	
Total Coliforms	**2.0**	1.8	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
Bolstar	ND	0.067	µg/L	1	2002574	04/01/20	04/01/20	EPA 8141A	
Chlorpyrifos	ND	0.067	"	"	"	"	"	"	
Coumaphos	ND	0.13	"	"	"	"	"	"	
Demeton	ND	0.13	"	"	"	"	"	"	
Diazinon	ND	0.067	"	"	"	"	"	"	
Dichlorvos	ND	0.13	"	"	"	"	"	"	
Disulfoton	ND	0.067	"	"	"	"	"	"	
Ethoprop	ND	0.067	"	"	"	"	"	"	
Fensulfothion	ND	0.067	"	"	"	"	"	"	
Fenthion	ND	0.067	"	"	"	"	"	"	
Guthion	ND	0.13	"	"	"	"	"	"	
Malathion	ND	0.067	"	"	"	"	"	"	
Merphos	ND	0.067	"	"	"	"	"	"	
Methyl parathion	ND	0.067	"	"	"	"	"	"	
Mevinphos	ND	0.067	"	"	"	"	"	"	
Phorate	ND	0.067	"	"	"	"	"	"	
Prothiofos	ND	0.067	"	"	"	"	"	"	
Ronnel	ND	0.067	"	"	"	"	"	"	
Stirophos	ND	0.067	"	"	"	"	"	"	
Trichloronate	ND	0.067	"	"	"	"	"	"	
Surrogate: EPN		*98 %*	*50-150*		"	"	"	"	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Bolstar	ND	0.058	µg/L	1	2002574	04/01/20	04/01/20	EPA 8141A	
Chlorpyrifos	ND	0.058	"	"	"	"	"	"	
Coumaphos	ND	0.12	"	"	"	"	"	"	
Demeton	ND	0.12	"	"	"	"	"	"	
Diazinon	ND	0.058	"	"	"	"	"	"	
Dichlorvos	ND	0.12	"	"	"	"	"	"	
Disulfoton	ND	0.058	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project: Teichert Woodland	
500 First St.	Project Number: [none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager: Jeanette Lovelis	COC #: 204033

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Ethoprop	ND	0.058	µg/L	1	2002574	"	04/01/20	EPA 8141A	
Fensulfothion	ND	0.058	"	"	"	"	"	"	
Fenthion	ND	0.058	"	"	"	"	"	"	
Guthion	ND	0.12	"	"	"	"	"	"	
Malathion	ND	0.058	"	"	"	"	"	"	
Merphos	ND	0.058	"	"	"	"	"	"	
Methyl parathion	ND	0.058	"	"	"	"	"	"	
Mevinphos	ND	0.058	"	"	"	"	"	"	
Phorate	ND	0.058	"	"	"	"	"	"	
Prothiofos	ND	0.058	"	"	"	"	"	"	
Ronnel	ND	0.058	"	"	"	"	"	"	
Stirophos	ND	0.058	"	"	"	"	"	"	
Trichloronate	ND	0.058	"	"	"	"	"	"	
Surrogate: EPN		*95 %*		*50-150*	"	"	"	"	
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Bolstar	ND	0.050	µg/L	1	2002574	04/01/20	04/01/20	EPA 8141A	
Chlorpyrifos	ND	0.050	"	"	"	"	"	"	
Coumaphos	ND	0.10	"	"	"	"	"	"	
Demeton	ND	0.10	"	"	"	"	"	"	
Diazinon	ND	0.050	"	"	"	"	"	"	
Dichlorvos	ND	0.10	"	"	"	"	"	"	
Disulfoton	ND	0.050	"	"	"	"	"	"	
Ethoprop	ND	0.050	"	"	"	"	"	"	
Fensulfothion	ND	0.050	"	"	"	"	"	"	
Fenthion	ND	0.050	"	"	"	"	"	"	
Guthion	ND	0.10	"	"	"	"	"	"	
Malathion	ND	0.050	"	"	"	"	"	"	
Merphos	ND	0.050	"	"	"	"	"	"	
Methyl parathion	ND	0.050	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Mevinphos	ND	0.050	µg/L	1	2002574	"	04/01/20	EPA 8141A	
Phorate	ND	0.050	"	"	"	"	"	"	
Prothiofos	ND	0.050	"	"	"	"	"	"	
Ronnel	ND	0.050	"	"	"	"	"	"	
Stirophos	ND	0.050	"	"	"	"	"	"	
Trichloronate	ND	0.050	"	"	"	"	"	"	
Surrogate: EPN		*125 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TA-25 (20C1429-01) Water Sampled: 03/31/20 10:15 Received: 03/31/20 16:00									
Benzene	ND	0.50	µg/L	1	2002639	04/01/20	04/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*72-125*	"	"	"	"	
TA-18 (20C1429-03) Water Sampled: 03/31/20 13:15 Received: 03/31/20 16:00									
Benzene	ND	0.50	µg/L	1	2002639	04/01/20	04/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*72-125*	"	"	"	"	
Stephens (20C1429-04) Water Sampled: 03/31/20 14:45 Received: 03/31/20 16:00									
Benzene	ND	0.50	µg/L	1	2002639	04/01/20	04/01/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*72-125*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002641 - EPA 8151A										
Blank (2002641-BLK1)				Prepared: 04/03/20 Analyzed: 04/08/20						
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	µg/L							
Dalapon	ND	2.0	"							
2,4-DB	ND	2.0	"							
Dicamba	ND	1.0	"							
Dichloroprop	ND	2.0	"							
Dinoseb	ND	1.0	"							
MCPA	ND	250	"							
MCPP	ND	250	"							
Pentachlorophenol	ND	0.20	"							
2,4,5-T	ND	0.50	"							
2,4,5-TP (Silvex)	ND	0.20	"							
Surrogate: 2,4-DCAA	*2.14*		*"*	*2.50*		*86*	*50-150*			
LCS (2002641-BS1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.14	1.0	µg/L	1.25		91	50-150			
Dichloroprop	1.76	2.0	"	1.25		141	50-150			
Surrogate: 2,4-DCAA	*2.01*		*"*	*2.50*		*80*	*50-150*			
LCS Dup (2002641-BSD1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.27	1.0	µg/L	1.25		102	50-150	11	30	
Dichloroprop	1.85	2.0	"	1.25		148	50-150	5	30	
Surrogate: 2,4-DCAA	*2.25*		*"*	*2.50*		*90*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20C1429
COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002564 - General Prep										
Blank (2002564-BLK1)				Prepared & Analyzed: 04/01/20						
Sulfate as SO4	ND	0.50	mg/L							
Fluoride	ND	0.10	"							
Chloride	ND	0.50	"							
Nitrate as N	ND	0.40	"							
LCS (2002564-BS1)				Prepared & Analyzed: 04/01/20						
Chloride	4.81	0.50	mg/L	5.00		96	80-120			
Fluoride	1.98	0.10	"	2.00		99	80-120			
Sulfate as SO4	4.83	0.50	"	5.00		97	80-120			
Nitrate as N	2.04	0.40	"	2.00		102	80-120			
LCS Dup (2002564-BSD1)				Prepared & Analyzed: 04/01/20						
Fluoride	2.05	0.10	mg/L	2.00		102	80-120	3	20	
Chloride	4.73	0.50	"	5.00		95	80-120	2	20	
Sulfate as SO4	4.77	0.50	"	5.00		95	80-120	1	20	
Nitrate as N	2.01	0.40	"	2.00		100	80-120	2	20	
Matrix Spike (2002564-MS1)	**Source: 20C1429-01**			Prepared & Analyzed: 04/01/20						
Fluoride	1.96	0.10	mg/L	2.00	0.110	93	80-120			
Chloride	74.4	0.50	"	5.00	77.3	NR	80-120			QM-4X
Sulfate as SO4	98.0	0.50	"	5.00	103	NR	80-120			QM-4X
Nitrate as N	4.56	0.40	"	2.00	2.35	110	80-120			
Matrix Spike Dup (2002564-MSD1)	**Source: 20C1429-01**			Prepared & Analyzed: 04/01/20						
Fluoride	1.94	0.10	mg/L	2.00	0.110	91	80-120	1	20	
Sulfate as SO4	98.0	0.50	"	5.00	103	NR	80-120	0.07	20	QM-4X
Chloride	74.4	0.50	"	5.00	77.3	NR	80-120	0.01	20	QM-4X
Nitrate as N	4.59	0.40	"	2.00	2.35	112	80-120	0.7	20	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002565 - General Prep										
Duplicate (2002565-DUP1)		**Source: 20C1417-01**		Prepared & Analyzed: 04/01/20						
pH	7.76	0.01	pH Units		7.81			0.642	20	
Batch 2002571 - EPA 200 Series										
Blank (2002571-BLK1)				Prepared & Analyzed: 04/01/20						
Calcium	ND	1.0	mg/L							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2002571-BS1)				Prepared & Analyzed: 04/01/20						
Calcium	5.16	1.0	mg/L	5.00		103	85-115			
Hardness as CaCO3	34.1	1.0	"	33.1		103	85-115			
Magnesium	5.11	1.0	"	5.00		102	85-115			
Potassium	5.35	1.0	"	5.00		107	85-115			
Sodium	4.54	1.0	"	5.00		91	85-115			
Matrix Spike (2002571-MS1)		**Source: 20C1352-01**		Prepared & Analyzed: 04/01/20						
Calcium	29.6	1.0	mg/L	5.00	24.5	102	70-130			
Hardness as CaCO3	171	1.0	"	33.1	138	99	70-130			
Magnesium	23.3	1.0	"	5.00	18.5	94	70-130			
Potassium	9.75	1.0	"	5.00	4.27	110	70-130			
Sodium	18.6	1.0	"	5.00	14.1	91	70-130			
Matrix Spike (2002571-MS2)		**Source: 20C1429-04**		Prepared & Analyzed: 04/01/20						
Calcium	61.1	1.0	mg/L	5.00	47.6	270	70-130			QM-7
Hardness as CaCO3	412	1.0	"	33.1	366	140	70-130			QM-7
Magnesium	62.6	1.0	"	5.00	59.9	52	70-130			QM-7
Potassium	8.87	1.0	"	5.00	2.51	127	70-130			
Sodium	81.1	1.0	"	5.00	81.8	NR	70-130			QM-7

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002575 - 6010A/No Digestion										
Blank (2002575-BLK1)				Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	ND	1.0	mg/L							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2002575-BS1)				Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	4.69	1.0	mg/L	5.00		94	85-115			
Hardness as CaCO3	32.8	1.0	"	33.1		99	85-115			
Magnesium	5.08	1.0	"	5.00		102	85-115			
Potassium	5.34	1.0	"	5.00		107	85-115			
Sodium	4.62	1.0	"	5.00		92	85-115			
Matrix Spike (2002575-MS1)	**Source: 20C1377-01**			Prepared: 04/01/20 Analyzed: 04/03/20						
Calcium	44.9	1.0	mg/L	5.00	41.1	75	70-130			
Hardness as CaCO3	357	1.0	"	33.1	336	61	70-130			QM-7
Magnesium	58.9	1.0	"	5.00	56.7	44	70-130			QM-7
Potassium	7.98	1.0	"	5.00	2.81	103	70-130			
Sodium	101	1.0	"	5.00	101	NR	70-130			QM-7
Batch 2002578 - General Prep										
Blank (2002578-BLK1)				Prepared & Analyzed: 04/01/20						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002578 - General Prep										
Duplicate (2002578-DUP1)		**Source: 20C1352-01**		Prepared & Analyzed: 04/01/20						
Total Alkalinity	125	5.0	mg/L		124			1	20	
Bicarbonate as CaCO3	125	5.0	"		124			1	20	
Carbonate as CaCO3	ND	5.0	"		ND				20	
Hydroxide as CaCO3	ND	5.0	"		ND				20	
Batch 2002584 - General Preparation										
Blank (2002584-BLK1)				Prepared & Analyzed: 04/01/20						
Specific Conductance (EC)	ND	1.0	µmhos/cm							
Duplicate (2002584-DUP1)		**Source: 20C1417-01**		Prepared & Analyzed: 04/01/20						
Specific Conductance (EC)	1370	1.0	µmhos/cm		1360			0.733	20	
Batch 2002589 - General Preparation										
Blank (2002589-BLK1)				Prepared & Analyzed: 04/01/20						
MBAS as LAS, mol wt 340	ND	0.10	mg/L							
LCS (2002589-BS1)				Prepared & Analyzed: 04/01/20						
MBAS as LAS, mol wt 340	0.436	0.10	mg/L	0.500		87	80-120			
LCS Dup (2002589-BSD1)				Prepared & Analyzed: 04/01/20						
MBAS as LAS, mol wt 340	0.429	0.10	mg/L	0.500		86	80-120	2	20	
Matrix Spike (2002589-MS1)		**Source: 20C1429-01**		Prepared & Analyzed: 04/01/20						
MBAS as LAS, mol wt 340	0.429	0.10	mg/L	0.500	ND	86	75-125			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002589 - General Preparation										
Matrix Spike Dup (2002589-MSD1)		**Source: 20C1429-01**		Prepared & Analyzed: 04/01/20						
MBAS as LAS, mol wt 340	0.428	0.10	mg/L	0.500	ND	86	75-125	0.2	25	
Batch 2002590 - General										
Blank (2002590-BLK1)				Prepared: 04/01/20 Analyzed: 04/06/20						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (2002590-BS1)				Prepared: 04/01/20 Analyzed: 04/06/20						
Biochemical Oxygen Demand	201	3.0	mg/L	167		121	83-138			
LCS Dup (2002590-BSD1)				Prepared: 04/01/20 Analyzed: 04/06/20						
Biochemical Oxygen Demand	198	3.0	mg/L	167		119	83-138	2	21	
Batch 2002593 - General Preparation										
Blank (2002593-BLK1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	ND	0.050	mg/L							
LCS (2002593-BS1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.307	0.050	mg/L	0.300		102	80-120			
LCS Dup (2002593-BSD1)				Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.310	0.050	mg/L	0.300		103	80-120	1	25	
Matrix Spike (2002593-MS1)		**Source: 20C1407-01**		Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.353	0.050	mg/L	0.300	0.0675	95	75-125			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002593 - General Preparation										
Matrix Spike Dup (2002593-MSD1)		**Source: 20C1407-01**		Prepared & Analyzed: 04/01/20						
Total Phosphorus as P	0.358	0.050	mg/L	0.300	0.0675	97	75-125	2	30	
Batch 2002598 - General										
Blank (2002598-BLK1)				Prepared & Analyzed: 04/01/20						
Turbidity	ND	0.10	NTU							
Duplicate (2002598-DUP1)		**Source: 20C1429-01**		Prepared & Analyzed: 04/01/20						
Turbidity	2.61	0.10	NTU		2.75			6	20	
Batch 2002631 - General Preparation										
Blank (2002631-BLK1)				Prepared: 04/02/20 Analyzed: 04/03/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (2002631-DUP1)		**Source: 20C1407-07**		Prepared: 04/02/20 Analyzed: 04/03/20						
Total Dissolved Solids	251	10	mg/L		252			0.4	20	

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20C1429
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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002586 - EPA 3510B GCNV										
Blank (2002586-BLK1)				Prepared & Analyzed: 04/01/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0289*		*"*	*0.0250*		*116*	*65-135*			
LCS (2002586-BS1)				Prepared & Analyzed: 04/01/20						
Diesel	1.83	0.050	mg/L	2.50		73	65-135			
Surrogate: o-Terphenyl	*0.0260*		*"*	*0.0250*		*104*	*65-135*			
LCS Dup (2002586-BSD1)				Prepared & Analyzed: 04/01/20						
Diesel	1.66	0.050	mg/L	2.50		67	65-135	10	30	
Surrogate: o-Terphenyl	*0.0226*		*"*	*0.0250*		*91*	*65-135*			
Matrix Spike (2002586-MS1)		**Source: 20C1407-05**		Prepared & Analyzed: 04/01/20						
Diesel	1.75	0.050	mg/L	2.50	ND	70	46-137			
Surrogate: o-Terphenyl	*0.0240*		*"*	*0.0250*		*96*	*65-135*			
Matrix Spike Dup (2002586-MSD1)		**Source: 20C1407-05**		Prepared & Analyzed: 04/01/20						
Diesel	1.75	0.050	mg/L	2.50	ND	70	46-137	0.1	30	
Surrogate: o-Terphenyl	*0.0247*		*"*	*0.0250*		*99*	*65-135*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002571 - EPA 200 Series										
Blank (2002571-BLK1)				Prepared & Analyzed: 04/01/20						
Aluminum	ND	50	µg/L							
Barium	ND	20	"							
Cadmium	ND	10	"							
Calcium	ND	1000	"							
Chromium	ND	10	"							
Copper	ND	10	"							
Iron	ND	100	"							
Manganese	ND	10	"							
Zinc	ND	20	"							
LCS (2002571-BS1)				Prepared & Analyzed: 04/01/20						
Aluminum	5140	50	µg/L	5000		103	85-115			
Barium	995	20	"	1000		100	85-115			
Cadmium	1100	10	"	1000		110	85-115			
Calcium	5160	1000	"	5000		103	85-115			
Chromium	1060	10	"	1000		106	85-115			
Copper	1080	10	"	1000		108	85-115			
Iron	1090	100	"	1000		109	85-115			
Manganese	1070	10	"	1000		107	85-115			
Zinc	1040	20	"	1000		104	85-115			
Matrix Spike (2002571-MS1)	**Source: 20C1352-01**			Prepared & Analyzed: 04/01/20						
Aluminum	5340	50	µg/L	5000	26.2	106	70-130			
Barium	1080	20	"	1000	66.4	101	70-130			
Cadmium	1100	10	"	1000	ND	110	70-130			
Calcium	29600	1000	"	5000	24500	102	70-130			
Chromium	1040	10	"	1000	ND	104	70-130			
Copper	1080	10	"	1000	ND	108	70-130			
Iron	1160	100	"	1000	73.9	109	70-130			
Manganese	1050	10	"	1000	1.93	105	70-130			
Zinc	1070	20	"	1000	ND	107	70-130			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20C1429
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Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002571 - EPA 200 Series										
Matrix Spike (2002571-MS2)	**Source: 20C1429-04**			Prepared & Analyzed: 04/01/20						
Aluminum	5330	50	µg/L	5000	ND	107	70-130			
Barium	1310	20	"	1000	234	107	70-130			
Cadmium	1030	10	"	1000	ND	103	70-130			
Calcium	61100	1000	"	5000	47600	270	70-130			QM-7
Chromium	1070	10	"	1000	ND	107	70-130			
Copper	978	10	"	1000	ND	98	70-130			
Iron	1400	100	"	1000	191	121	70-130			
Manganese	1860	10	"	1000	856	101	70-130			
Zinc	943	20	"	1000	ND	94	70-130			
Batch 2002616 - EPA 200 Series										
Blank (2002616-BLK1)				Prepared & Analyzed: 04/02/20						
Arsenic	ND	2.0	µg/L							
Lead	ND	5.0	"							
Selenium	ND	5.0	"							
LCS (2002616-BS1)				Prepared & Analyzed: 04/02/20						
Arsenic	100	2.0	µg/L	100		100	85-115			
Lead	104	5.0	"	100		104	85-115			
Selenium	97.2	5.0	"	100		97	85-115			
Matrix Spike (2002616-MS1)	**Source: 20D0032-01**			Prepared & Analyzed: 04/02/20						
Arsenic	148	2.0	µg/L	100	46.5	101	70-130			
Lead	111	5.0	"	100	2.17	109	70-130			
Selenium	102	5.0	"	100	ND	102	70-130			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002619 - EPA 7470A										
Blank (2002619-BLK1)				Prepared & Analyzed: 04/02/20						
Mercury	ND	0.20	µg/L							
LCS (2002619-BS1)				Prepared & Analyzed: 04/02/20						
Mercury	5.28	0.20	µg/L	5.00		106	85-115			
Matrix Spike (2002619-MS1)	**Source: 20C1377-01**			Prepared & Analyzed: 04/02/20						
Mercury	5.32	0.20	µg/L	5.00	ND	106	70-130			
Matrix Spike Dup (2002619-MSD1)	**Source: 20C1377-01**			Prepared & Analyzed: 04/02/20						
Mercury	4.93	0.20	µg/L	5.00	ND	99	70-130	7	25	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002574 - EPA 3510B GCNV										
Blank (2002574-BLK1)				Prepared & Analyzed: 04/01/20						
Bolstar	ND	0.050	µg/L							
Chlorpyrifos	ND	0.050	"							
Coumaphos	ND	0.10	"							
Demeton	ND	0.10	"							
Diazinon	ND	0.050	"							
Dichlorvos	ND	0.10	"							
Disulfoton	ND	0.050	"							
Ethoprop	ND	0.050	"							
Fensulfothion	ND	0.050	"							
Fenthion	ND	0.050	"							
Guthion	ND	0.10	"							
Malathion	ND	0.050	"							
Merphos	ND	0.050	"							
Methyl parathion	ND	0.050	"							
Mevinphos	ND	0.050	"							
Phorate	ND	0.050	"							
Prothiofos	ND	0.050	"							
Ronnel	ND	0.050	"							
Stirophos	ND	0.050	"							
Trichloronate	ND	0.050	"							
Surrogate: EPN	*2.18*		*"*	*2.50*		*87*	*50-150*			
LCS (2002574-BS1)				Prepared & Analyzed: 04/01/20						
Methyl parathion	0.262	0.050	µg/L	0.250		105	50-150			
Ronnel	0.243	0.050	"	0.250		97	50-150			
Stirophos	0.292	0.050	"	0.250		117	50-150			
Trichloronate	0.237	0.050	"	0.250		95	50-150			
Surrogate: EPN	*2.40*		*"*	*2.50*		*96*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002574 - EPA 3510B GCNV										
LCS Dup (2002574-BSD1)				Prepared & Analyzed: 04/01/20						
Methyl parathion	0.256	0.050	µg/L	0.250		102	50-150	2	30	
Ronnel	0.238	0.050	"	0.250		95	50-150	2	30	
Stirophos	0.290	0.050	"	0.250		116	50-150	0.6	30	
Trichloronate	0.245	0.050	"	0.250		98	50-150	3	30	
Surrogate: EPN	*2.26*		*"*	*2.50*		*90*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20C1429
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002639 - EPA 5030 Water MS										
Blank (2002639-BLK1)				Prepared & Analyzed: 04/01/20						
Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Naphthalene	ND	0.50	"							
Surrogate: Toluene-d8	*10.1*		"	*10.0*		*101*	*72-125*			
LCS (2002639-BS1)				Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	22.3	0.50	µg/L	20.0		112	52-130			
Benzene	21.3	0.50	"	20.0		106	52-130			
Surrogate: Toluene-d8	*9.71*		"	*10.0*		*97*	*72-125*			
LCS Dup (2002639-BSD1)				Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	20.9	0.50	µg/L	20.0		104	52-130	7	30	
Benzene	21.6	0.50	"	20.0		108	52-130	1	30	
Surrogate: Toluene-d8	*9.68*		"	*10.0*		*97*	*72-125*			
Matrix Spike (2002639-MS1)	**Source: 20C1397-01**			Prepared & Analyzed: 04/01/20						
Methyl tert-butyl ether	21.3	0.50	µg/L	20.0	ND	107	52-140			
Benzene	23.4	0.50	"	20.0	ND	117	52-140			
Surrogate: Toluene-d8	*9.63*		"	*10.0*		*96*	*72-125*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002639 - EPA 5030 Water MS										
Matrix Spike Dup (2002639-MSD1)	**Source: 20C1397-01**			Prepared: 04/01/20 Analyzed: 04/02/20						
Methyl tert-butyl ether	21.7	0.50	µg/L	20.0	ND	109	52-140	2	30	
Benzene	23.0	0.50	"	20.0	ND	115	52-140	2	30	
Surrogate: Toluene-d8	*9.73*		*"*	*10.0*		*97*	*72-125*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20C1429**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204033

Notes and Definitions

QRL-7	The initial volume was decreased or the final volume of the extract was increased due to matrix interference, which resulted in higher reporting limits.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
HT-F	This is a field test method and it is performed in the lab outside holding time.
BT-4	<1.8
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

April 13, 2020

CLS Work Order #: 20D0183
COC #: 204036

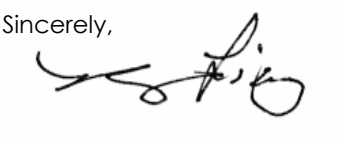
Jeanette Lovelis
Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project Name: Teichert Woodland

Enclosed are the results of analyses for samples received by the laboratory on 04/03/20 11:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

CHAIN OF CUSTODY

CLS ID No.: 200983 LOG № 204036

total/ferrous → Al, As, Ba, Ca, Cr, Cu, Fe, Hg, Mn, Pb, Se, & Zn

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

REPORT TO:

NAME AND ADDRESS: LSCE
500 First St.
Woodland, CA 95695
PROJECT MANAGER: Jeanette PHONE #: 530-661-1009
PROJECT NAME: Teichert Woodland
SAMPLED BY: J & H
JOB DESCRIPTION: MW Sample
SITE LOCATION: Woodland

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742
☐ OTHER

PRESERVATIVES

ANALYSIS REQUESTED

GEOTRACKER:
EDF REPORT ☐ YES ☐ NO
GLOBAL ID:

COPH WRITE ON EDT TRANSMISSION? ☐ YES ☐ NO
STATE SYSTEM NUMBER
IF "YES" PLEASE ENTER THE SOURCE NUMBER(S).

COMPOSITE: Grab

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	General/Mineral + Turbidity	EPA 8141 + 8151	TPH-Diesel + MO	Coliform Stube Edit	BTEX	Metals	TURN AROUND TIME 1 DAY	2 DAY	3 DAY	5 DAY	SPECIAL INSTRUCTIONS OR ALT. ID:
4/3/20	1020	Rodgers South	H_2O	8	—	X	X	X	X	X	X	X				X	

INVOICE TO:

P.O. #

QUOTE #

Email/Address

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Jay Heffernan / LSCE	4/3/20 1130		

REC'D AT LAB BY: [signature] DATE / TIME: 4/3/2020 1130 CONDITIONS / COMMENTS: 1.2/1.2

SHIPPED BY: ☐ FED X ☐ UPS ☐ OTHER AIR BILL #

White-Lab/Terms and conditions Yellow- Lab file copy/Terms and Conditions Pink- Origin/Terms and Conditions Gold-Project Mgr./Field Sampler/Terms and conditions

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water	**Sampled: 04/03/20 10:20**	**Received: 04/03/20 11:30**							**QRL-7**
2,4,5-T	ND	0.61	µg/L	1	2002641	04/03/20	04/08/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.24	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.2	"	"	"	"	"	"	
2,4-DB	ND	2.4	"	"	"	"	"	"	
Dalapon	ND	2.4	"	"	"	"	"	"	
Dicamba	ND	1.2	"	"	"	"	"	"	
Dichloroprop	ND	2.4	"	"	"	"	"	"	
Dinoseb	ND	1.2	"	"	"	"	"	"	
MCPA	ND	310	"	"	"	"	"	"	
MCPP	ND	310	"	"	"	"	"	"	
Pentachlorophenol	ND	0.24	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*85 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
Bicarbonate as CaCO3	**250**	5.0	mg/L	1	2002848	04/09/20	04/09/20	SM2320B	
Calcium	**34**	1.0	"	"	2002742	04/07/20	04/08/20	EPA 200.7	
Carbonate as CaCO3	ND	5.0	"	"	2002848	04/09/20	04/09/20	SM2320B	
Chloride	**37**	2.5	"	5	2002664	04/03/20	04/03/20	EPA 300.0	
Fluoride	**0.18**	0.10	"	1	"	"	04/03/20	"	
Hardness as CaCO3	**200**	1.0	"	"	2002742	04/07/20	04/08/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2002848	04/09/20	04/09/20	SM2320B	
Magnesium	**28**	1.0	"	"	2002742	04/07/20	04/08/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2002670	04/03/20	04/03/20	SM5540 C	
Nitrate as N	**2.2**	0.40	"	"	2002664	04/03/20	04/03/20	EPA 300.0	
pH	**7.60**	0.01	pH Units	"	2002638	04/03/20	04/03/20	SM4500-H B	HT-F
Potassium	**3.3**	1.0	mg/L	"	2002742	04/07/20	04/10/20	EPA 200.7	
Sodium	**45**	1.0	"	"	"	"	04/08/20	"	
Specific Conductance (EC)	**620**	1.0	µmhos/cm	"	2002800	04/08/20	04/08/20	EPA 120.1	
Sulfate as SO4	**33**	0.50	mg/L	"	2002664	04/03/20	04/03/20	EPA 300.0	
Total Alkalinity	**250**	5.0	"	"	2002848	04/09/20	04/09/20	SM2320B	
Total Dissolved Solids	**350**	10	"	"	2002709	04/06/20	04/07/20	SM2540C	
Turbidity	**0.60**	0.10	NTU	"	2002708	04/03/20	04/03/20	EPA 180.1	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
Diesel	ND	0.050	mg/L	1	2002809	04/08/20	04/08/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*98 %*	*65-135*		*"*	*"*	*"*	*"*	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
Aluminum	ND	50	µg/L	1	2002742	04/07/20	04/08/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2002741	04/07/20	04/07/20	EPA 200.8	
Barium	**120**	20	"	"	2002742	04/07/20	04/08/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	"	"	QC-2H
Calcium	**34000**	1000	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	"	"	
Iron	ND	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	2002741	04/07/20	04/07/20	EPA 200.8	
Manganese	ND	10	"	"	2002742	04/07/20	04/08/20	EPA 200.7	
Mercury	ND	0.20	"	"	2002738	04/07/20	04/07/20	EPA 245.1	
Selenium	ND	5.0	"	"	2002741	04/07/20	04/07/20	EPA 200.8	
Zinc	ND	20	"	"	2002742	04/07/20	04/08/20	EPA 200.7	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
E. Coli	<1.8	1.8	MPN/100 mL	1	2002681	04/03/20	04/05/20	SM 9221	
Fecal Coliforms	<1.8	1.8	"	"	"	"	"	"	
Total Coliforms	<1.8	1.8	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
Bolstar	ND	0.056	µg/L	1	2002815	04/09/20	04/09/20	EPA 8141A	
Chlorpyrifos	ND	0.056	"	"	"	"	"	"	
Coumaphos	ND	0.11	"	"	"	"	"	"	
Demeton	ND	0.11	"	"	"	"	"	"	
Diazinon	ND	0.056	"	"	"	"	"	"	
Dichlorvos	ND	0.11	"	"	"	"	"	"	
Disulfoton	ND	0.056	"	"	"	"	"	"	
Ethoprop	ND	0.056	"	"	"	"	"	"	
Fensulfothion	ND	0.056	"	"	"	"	"	"	
Fenthion	ND	0.056	"	"	"	"	"	"	
Guthion	ND	0.11	"	"	"	"	"	"	
Malathion	ND	0.056	"	"	"	"	"	"	
Merphos	ND	0.056	"	"	"	"	"	"	
Methyl parathion	ND	0.056	"	"	"	"	"	"	
Mevinphos	ND	0.056	"	"	"	"	"	"	
Phorate	ND	0.056	"	"	"	"	"	"	
Prothiofos	ND	0.056	"	"	"	"	"	"	
Ronnel	ND	0.056	"	"	"	"	"	"	
Stirophos	ND	0.056	"	"	"	"	"	"	
Trichloronate	ND	0.056	"	"	"	"	"	"	
Surrogate: EPN		*96 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rogers South (20D0183-01) Water Sampled: 04/03/20 10:20 Received: 04/03/20 11:30									
Benzene	ND	0.50	µg/L	1	2002740	04/06/20	04/06/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*72-125*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002641 - EPA 8151A										
Blank (2002641-BLK1)				Prepared: 04/03/20 Analyzed: 04/08/20						
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	µg/L							
Dalapon	ND	2.0	"							
2,4-DB	ND	2.0	"							
Dicamba	ND	1.0	"							
Dichloroprop	ND	2.0	"							
Dinoseb	ND	1.0	"							
MCPA	ND	250	"							
MCPP	ND	250	"							
Pentachlorophenol	ND	0.20	"							
2,4,5-T	ND	0.50	"							
2,4,5-TP (Silvex)	ND	0.20	"							
Surrogate: 2,4-DCAA	*2.14*		*"*	*2.50*		*86*	*50-150*			
LCS (2002641-BS1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.14	1.0	µg/L	1.25		91	50-150			
Dichloroprop	1.76	2.0	"	1.25		141	50-150			
Surrogate: 2,4-DCAA	*2.01*		*"*	*2.50*		*80*	*50-150*			
LCS Dup (2002641-BSD1)				Prepared: 04/03/20 Analyzed: 04/08/20						
Dicamba	1.27	1.0	µg/L	1.25		102	50-150	11	30	
Dichloroprop	1.85	2.0	"	1.25		148	50-150	5	30	
Surrogate: 2,4-DCAA	*2.25*		*"*	*2.50*		*90*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002638 - General Preparation										
Duplicate (2002638-DUP1)		**Source: 20D0133-01**		Prepared & Analyzed: 04/03/20						
pH	4.96	0.01	pH Units		4.97			0.201	20	
Batch 2002664 - General Prep										
Blank (2002664-BLK1)				Prepared & Analyzed: 04/03/20						
Chloride	ND	0.50	mg/L							
Fluoride	ND	0.10	"							
Sulfate as SO4	ND	0.50	"							
Nitrate as N	ND	0.40	"							
LCS (2002664-BS1)				Prepared & Analyzed: 04/03/20						
Chloride	4.71	0.50	mg/L	5.00		94	80-120			
Sulfate as SO4	4.77	0.50	"	5.00		95	80-120			
Fluoride	2.05	0.10	"	2.00		102	80-120			
Nitrate as N	2.00	0.40	"	2.00		100	80-120			
LCS Dup (2002664-BSD1)				Prepared & Analyzed: 04/03/20						
Sulfate as SO4	4.78	0.50	mg/L	5.00		96	80-120	0.1	20	
Fluoride	1.98	0.10	"	2.00		99	80-120	3	20	
Chloride	4.69	0.50	"	5.00		94	80-120	0.3	20	
Nitrate as N	2.00	0.40	"	2.00		100	80-120	0.1	20	
Matrix Spike (2002664-MS1)		**Source: 20D0177-01**		Prepared & Analyzed: 04/03/20						
Sulfate as SO4	43.0	0.50	mg/L	5.00	40.3	55	80-120			QM-4X
Fluoride	2.01	0.10	"	2.00	0.105	95	80-120			
Chloride	5.14	0.50	"	5.00	0.699	89	80-120			
Nitrate as N	2.02	0.40	"	2.00	ND	101	80-120			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002664 - General Prep										
Matrix Spike Dup (2002664-MSD1)	**Source: 20D0177-01**			Prepared & Analyzed: 04/03/20						
Fluoride	2.17	0.10	mg/L	2.00	0.105	103	80-120	8	20	
Chloride	5.23	0.50	"	5.00	0.699	91	80-120	2	20	
Sulfate as SO4	43.3	0.50	"	5.00	40.3	61	80-120	0.7	20	QM-4X
Nitrate as N	2.04	0.40	"	2.00	ND	102	80-120	1	20	
Batch 2002670 - General Preparation										
Blank (2002670-BLK1)				Prepared & Analyzed: 04/03/20						
MBAS as LAS, mol wt 340	ND	0.10	mg/L							
LCS (2002670-BS1)				Prepared & Analyzed: 04/03/20						
MBAS as LAS, mol wt 340	0.427	0.10	mg/L	0.500		85	80-120			
LCS Dup (2002670-BSD1)				Prepared & Analyzed: 04/03/20						
MBAS as LAS, mol wt 340	0.428	0.10	mg/L	0.500		86	80-120	0.2	20	
Matrix Spike (2002670-MS1)	**Source: 20D0183-01**			Prepared & Analyzed: 04/03/20						
MBAS as LAS, mol wt 340	0.429	0.10	mg/L	0.500	ND	86	75-125			
Matrix Spike Dup (2002670-MSD1)	**Source: 20D0183-01**			Prepared & Analyzed: 04/03/20						
MBAS as LAS, mol wt 340	0.430	0.10	mg/L	0.500	ND	86	75-125	0.2	25	
Batch 2002708 - General										
Blank (2002708-BLK1)				Prepared & Analyzed: 04/03/20						
Turbidity	ND	0.10	NTU							

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002708 - General										
Duplicate (2002708-DUP1)		**Source: 20D0126-02**		Prepared & Analyzed: 04/03/20						
Turbidity	28.8	1.0	NTU		26.8			7	20	
Batch 2002709 - General Preparation										
Blank (2002709-BLK1)				Prepared: 04/06/20 Analyzed: 04/07/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (2002709-DUP1)		**Source: 20D0136-01**		Prepared: 04/06/20 Analyzed: 04/07/20						
Total Dissolved Solids	343	10	mg/L		335			2	20	
Batch 2002742 - EPA 200 Series										
Blank (2002742-BLK1)				Prepared: 04/07/20 Analyzed: 04/08/20						
Calcium	ND	1.0	mg/L							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2002742-BS1)				Prepared: 04/07/20 Analyzed: 04/08/20						
Calcium	4.68	1.0	mg/L	5.00		94	85-115			
Hardness as CaCO3	31.1	1.0	"	33.1		94	85-115			
Magnesium	4.68	1.0	"	5.00		94	85-115			
Potassium	5.34	1.0	"	5.00		107	85-115			
Sodium	4.48	1.0	"	5.00		90	85-115			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002742 - EPA 200 Series										
Matrix Spike (2002742-MS1)	**Source: 20D0243-02**			Prepared: 04/07/20 Analyzed: 04/08/20						
Calcium	12.1	1.0	mg/L	5.00	7.74	87	70-130			
Hardness as CaCO3	77.6	1.0	"	33.1	29.8	145	70-130			QM-7
Magnesium	7.04	1.0	"	5.00	2.53	90	70-130			
Potassium	11.4	1.0	"	5.00	6.55	97	70-130			
Sodium	12.2	1.0	"	5.00	8.13	81	70-130			
Matrix Spike (2002742-MS2)	**Source: 20D0270-06**			Prepared: 04/07/20 Analyzed: 04/08/20						
Calcium	24.0	1.0	mg/L	5.00	20.3	75	70-130			
Hardness as CaCO3	127	1.0	"	33.1	101	78	70-130			
Magnesium	16.1	1.0	"	5.00	12.2	77	70-130			
Potassium	5.77	1.0	"	5.00	1.10	93	70-130			
Sodium	59.1	1.0	"	5.00	57.1	38	70-130			QM-7
Batch 2002800 - General Preparation										
Blank (2002800-BLK1)				Prepared & Analyzed: 04/08/20						
Specific Conductance (EC)	ND	1.0	µmhos/cm							
Duplicate (2002800-DUP1)	**Source: 20D0385-01**			Prepared & Analyzed: 04/08/20						
Specific Conductance (EC)	2020	1.0	µmhos/cm		2000			0.943	20	
Batch 2002848 - General Preparation										
Blank (2002848-BLK1)				Prepared & Analyzed: 04/09/20						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002848 - General Preparation										
Duplicate (2002848-DUP1)		**Source: 20D0196-01**		Prepared & Analyzed: 04/09/20						
Total Alkalinity	24.6	5.0	mg/L		26.0			6	20	
Bicarbonate as CaCO3	19.0	5.0	"		22.0			15	20	
Carbonate as CaCO3	5.60	5.0	"		4.00			33	20	QD-5X
Hydroxide as CaCO3	ND	5.0	"		ND				20	

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002809 - EPA 3510B GCNV										
Blank (2002809-BLK1)				Prepared & Analyzed: 04/08/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0315*		*"*	*0.0250*		*126*	*65-135*			
LCS (2002809-BS1)				Prepared & Analyzed: 04/08/20						
Diesel	2.27	0.050	mg/L	2.50		91	65-135			
Surrogate: o-Terphenyl	*0.0303*		*"*	*0.0250*		*121*	*65-135*			
LCS Dup (2002809-BSD1)				Prepared & Analyzed: 04/08/20						
Diesel	2.47	0.050	mg/L	2.50		99	65-135	8	30	
Surrogate: o-Terphenyl	*0.0299*		*"*	*0.0250*		*119*	*65-135*			
Matrix Spike (2002809-MS1)	**Source: 20D0183-01**			Prepared & Analyzed: 04/08/20						
Diesel	2.61	0.050	mg/L	2.50	ND	105	46-137			
Surrogate: o-Terphenyl	*0.0303*		*"*	*0.0250*		*121*	*65-135*			
Matrix Spike Dup (2002809-MSD1)	**Source: 20D0183-01**			Prepared & Analyzed: 04/08/20						
Diesel	2.63	0.050	mg/L	2.50	ND	105	46-137	0.5	30	
Surrogate: o-Terphenyl	*0.0275*		*"*	*0.0250*		*110*	*65-135*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002738 - EPA 7470A										
Blank (2002738-BLK1)				Prepared & Analyzed: 04/07/20						
Mercury	ND	0.20	µg/L							
LCS (2002738-BS1)				Prepared & Analyzed: 04/07/20						
Mercury	5.18	0.20	µg/L	5.00		104	85-115			
Matrix Spike (2002738-MS1)		**Source: 20D0097-03**		Prepared & Analyzed: 04/07/20						
Mercury	5.21	0.20	µg/L	5.00	ND	104	70-130			
Matrix Spike Dup (2002738-MSD1)		**Source: 20D0097-03**		Prepared & Analyzed: 04/07/20						
Mercury	5.09	0.20	µg/L	5.00	ND	102	70-130	2	25	
Batch 2002741 - EPA 200 Series										
Blank (2002741-BLK1)				Prepared & Analyzed: 04/07/20						
Arsenic	ND	2.0	µg/L							
Lead	ND	5.0	"							
Selenium	ND	5.0	"							
LCS (2002741-BS1)				Prepared & Analyzed: 04/07/20						
Arsenic	94.2	2.0	µg/L	100		94	85-115			
Lead	93.2	5.0	"	100		93	85-115			
Selenium	92.7	5.0	"	100		93	85-115			
Matrix Spike (2002741-MS1)		**Source: 20D0303-01**		Prepared & Analyzed: 04/07/20						
Arsenic	115	2.0	µg/L	100	17.1	98	70-130			
Lead	278	5.0	"	100	187	91	70-130			
Selenium	97.0	5.0	"	100	100	NR	70-130			QM-7

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002741 - EPA 200 Series										
Matrix Spike (2002741-MS2)	**Source: 20D0243-01**			Prepared & Analyzed: 04/07/20						
Arsenic	97.8	2.0	µg/L	100	ND	98	70-130			
Lead	97.1	5.0	"	100	1.83	95	70-130			
Selenium	98.3	5.0	"	100	ND	98	70-130			
Batch 2002742 - EPA 200 Series										
Blank (2002742-BLK1)				Prepared: 04/07/20 Analyzed: 04/08/20						
Aluminum	ND	50	µg/L							
Barium	ND	20	"							
Cadmium	ND	10	"							
Calcium	ND	1000	"							
Chromium	ND	10	"							
Copper	ND	10	"							
Iron	ND	100	"							
Manganese	ND	10	"							
Zinc	ND	20	"							
LCS (2002742-BS1)				Prepared: 04/07/20 Analyzed: 04/08/20						
Aluminum	4600	50	µg/L	5000		92	85-115			
Barium	951	20	"	1000		95	85-115			
Cadmium	1070	10	"	1000		107	85-115			
Calcium	4680	1000	"	5000		94	85-115			
Chromium	1010	10	"	1000		101	85-115			
Copper	1070	10	"	1000		107	85-115			
Iron	979	100	"	1000		98	85-115			
Manganese	1040	10	"	1000		104	85-115			
Zinc	1000	20	"	1000		100	85-115			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002742 - EPA 200 Series										
Matrix Spike (2002742-MS1)	**Source: 20D0243-02**			Prepared: 04/07/20 Analyzed: 04/08/20						
Aluminum	8740	50	µg/L	5000	1750	140	70-130			QM-7
Barium	975	20	"	1000	43.8	93	70-130			
Cadmium	1060	10	"	1000	ND	106	70-130			
Calcium	12100	1000	"	5000	7740	87	70-130			
Chromium	929	10	"	1000	ND	93	70-130			
Copper	1070	10	"	1000	10.5	106	70-130			
Iron	3100	100	"	1000	1700	139	70-130			QM-7
Manganese	1060	10	"	1000	50.8	101	70-130			
Zinc	1010	20	"	1000	21.0	99	70-130			
Matrix Spike (2002742-MS2)	**Source: 20D0270-06**			Prepared: 04/07/20 Analyzed: 04/08/20						
Aluminum	4420	50	µg/L	5000	ND	88	70-130			
Barium	924	20	"	1000	16.2	91	70-130			
Cadmium	964	10	"	1000	ND	96	70-130			
Calcium	24000	1000	"	5000	20300	75	70-130			
Chromium	741	10	"	1000	ND	74	70-130			
Copper	988	10	"	1000	ND	99	70-130			
Iron	944	100	"	1000	ND	94	70-130			
Manganese	968	10	"	1000	ND	97	70-130			
Zinc	973	20	"	1000	14.9	96	70-130			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002815 - EPA 3510B GCNV										
Blank (2002815-BLK1)				Prepared & Analyzed: 04/09/20						
Bolstar	ND	0.050	µg/L							
Chlorpyrifos	ND	0.050	"							
Coumaphos	ND	0.10	"							
Demeton	ND	0.10	"							
Diazinon	ND	0.050	"							
Dichlorvos	ND	0.10	"							
Disulfoton	ND	0.050	"							
Ethoprop	ND	0.050	"							
Fensulfothion	ND	0.050	"							
Fenthion	ND	0.050	"							
Guthion	ND	0.10	"							
Malathion	ND	0.050	"							
Merphos	ND	0.050	"							
Methyl parathion	ND	0.050	"							
Mevinphos	ND	0.050	"							
Phorate	ND	0.050	"							
Prothiofos	ND	0.050	"							
Ronnel	ND	0.050	"							
Stirophos	ND	0.050	"							
Trichloronate	ND	0.050	"							
Surrogate: EPN	*2.71*		*"*	*2.50*		*108*	*50-150*			
LCS (2002815-BS1)				Prepared & Analyzed: 04/09/20						
Methyl parathion	0.271	0.050	µg/L	0.250		108	50-150			
Ronnel	0.244	0.050	"	0.250		98	50-150			
Stirophos	0.330	0.050	"	0.250		132	50-150			
Trichloronate	0.266	0.050	"	0.250		106	50-150			
Surrogate: EPN	*2.44*		*"*	*2.50*		*98*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002815 - EPA 3510B GCNV										
LCS Dup (2002815-BSD1)				Prepared & Analyzed: 04/09/20						
Methyl parathion	0.278	0.050	µg/L	0.250		111	50-150	3	30	
Ronnel	0.256	0.050	"	0.250		102	50-150	5	30	
Stirophos	0.335	0.050	"	0.250		134	50-150	2	30	
Trichloronate	0.264	0.050	"	0.250		106	50-150	0.6	30	
Surrogate: EPN	*2.55*		*"*	*2.50*		*102*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland
500 First St.	Project Number:	[none]
Woodland, CA 95695	Project Manager:	Jeanette Lovelis

CLS Work Order #: 20D0183
COC #: 204036

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002740 - EPA 5030 Water MS										
Blank (2002740-BLK1)				Prepared & Analyzed: 04/06/20						
Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: Toluene-d8	*9.99*		*"*	*10.0*		*100*	*72-125*			
LCS (2002740-BS1)				Prepared & Analyzed: 04/06/20						
Methyl tert-butyl ether	21.0	0.50	µg/L	20.0		105	52-130			
Benzene	24.0	0.50	"	20.0		120	52-130			
Surrogate: Toluene-d8	*10.7*		*"*	*10.0*		*107*	*72-125*			
LCS Dup (2002740-BSD1)				Prepared & Analyzed: 04/06/20						
Methyl tert-butyl ether	24.7	0.50	µg/L	20.0		123	52-130	16	30	
Benzene	24.1	0.50	"	20.0		121	52-130	0.6	30	
Surrogate: Toluene-d8	*10.5*		*"*	*10.0*		*105*	*72-125*			
Matrix Spike (2002740-MS1)	**Source: 20D0185-01**			Prepared & Analyzed: 04/06/20						
Methyl tert-butyl ether	23.7	0.50	µg/L	20.0	ND	118	52-140			
Benzene	24.3	0.50	"	20.0	ND	121	52-140			
Surrogate: Toluene-d8	*11.3*		*"*	*10.0*		*113*	*72-125*			
Matrix Spike Dup (2002740-MSD1)	**Source: 20D0185-01**			Prepared & Analyzed: 04/06/20						
Methyl tert-butyl ether	19.2	0.50	µg/L	20.0	ND	96	52-140	21	30	
Benzene	24.1	0.50	"	20.0	ND	120	52-140	0.7	30	
Surrogate: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*72-125*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	[none]	**CLS Work Order #: 20D0183**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 204036

Notes and Definitions

QRL-7	The initial volume was decreased or the final volume of the extract was increased due to matrix interference, which resulted in higher reporting limits.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QD-5X	The RPD was outside of the QC acceptance limit for the Duplicate due to that the analyte concentration is less than 5 times of the reporting limit. No correction action is needed.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
HT-F	This is a field test method and it is performed in the lab outside holding time.
BT-4	<1.8
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES
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September 22, 2020

CLS Work Order #: 20I0722
COC #: 209132

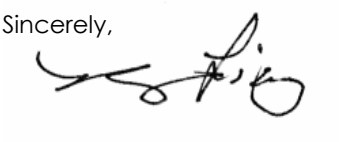
Jeanette Lovelis
Luhdorff & Scalmanini
500 First St.
Woodland, CA 95695

Project Name: Teichert Woodland

Enclosed are the results of analyses for samples received by the laboratory on 09/15/20 15:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

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CHAIN OF CUSTODY

→ Al, As, Ba, Cd, Cr, Cu, Fe, Hg, Mn, Pb, Se, Zn

CLS ID No.: 20I0722 LOG № 209132

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

REPORT TO:

NAME AND ADDRESS: LSCE
500 First Street
Woodland, CA 95695
PROJECT MANAGER: Jeanette Lovelis PHONE# 530-661-0109
PROJECT NAME: Teichert Woodland
SAMPLED BY: Charlie Jenkins
JOB DESCRIPTION:
SITE LOCATION: Teichert Woodland

CLIENT JOB NUMBER: 17-1-004

DESTINATION LABORATORY:
☒ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742
☐ OTHER

GEOTRACKER:
EDF REPORT ☐ YES ☐ NO
GLOBAL ID:

CDPH WRITE ON EDT TRANSMISSION? ☐ YES ☐ NO
STATE SYSTEM NUMBER
IF "YES" PLEASE ENTER THE SOURCE NUMBER(S).

COMPOSITE: Grab

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Gen Min + Turbidity	Metals	EPA 8141 + EPA 8151	TPH-d + TPH-MO	Coliform - 15 Tube E. Coli	BTEX	TURN AROUND TIME 1 DAY	2 DAY	3 DAY	5 DAY	SPECIAL INSTRUCTIONS OR ALT. ID:
9/15/20	13:30	Storz Pond	Water		Various	1,2,3	X	X	X	X	X	X				X	
↓	13:45	Field Blank	↓	1	1L Amb	3				X						X	

INVOICE TO:
P.O. #
QUOTE #

Email/Address: jLovelis@LSCE.com

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
	Charlie Jenkins/LSCE	9/15/20 15:45		

REC'D AT LAB BY: DATE / TIME: 9/15/20 1545 CONDITIONS / COMMENTS: 2.5

SHIPPED BY: ☐ FED X ☐ UPS ☐ OTHER AIR BILL #

White-Lab/Terms and conditions Yellow- Lab file copy/Terms and Conditions Pink- Origin/Terms and Conditions Gold-Project Mgr./Field Sampler/Terms and conditions

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
2,4,5-T	ND	0.50	µg/L	1	2007477	09/17/20	09/18/20	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.20	"	"	"	"	"	"	
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	"	"	"	"	"	"	
2,4-DB	ND	2.0	"	"	"	"	"	"	
Dalapon	ND	2.0	"	"	"	"	"	"	
Dicamba	ND	1.0	"	"	"	"	"	"	
Dichloroprop	ND	2.0	"	"	"	"	"	"	
Dinoseb	ND	1.0	"	"	"	"	"	"	
MCPA	ND	250	"	"	"	"	"	"	
MCPP	ND	250	"	"	"	"	"	"	
Pentachlorophenol	ND	0.20	"	"	"	"	"	"	
Surrogate: 2,4-DCAA		*85 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
Bicarbonate as CaCO3	**210**	5.0	mg/L	1	2007450	09/16/20	09/16/20	SM2320B	
Calcium	**16**	1.0	"	"	2007444	09/16/20	09/16/20	EPA 200.7	
Carbonate as CaCO3	**130**	5.0	"	"	2007450	09/16/20	09/16/20	SM2320B	
Chloride	**110**	5.0	"	10	2007435	09/16/20	09/16/20	EPA 300.0	
Fluoride	ND	0.10	"	1	"	"	09/16/20	"	
Hardness as CaCO3	**310**	1.0	"	"	2007444	09/16/20	09/16/20	EPA 200.7	
Hydroxide as CaCO3	ND	5.0	"	"	2007450	09/16/20	09/16/20	SM2320B	
Magnesium	**65**	1.0	"	"	2007444	09/16/20	09/16/20	EPA 200.7	
MBAS as LAS, mol wt 340	ND	0.10	"	"	2007478	09/17/20	09/17/20	SM5540 C	
Nitrate as N	**1.4**	0.40	"	"	2007435	09/16/20	09/16/20	EPA 300.0	
pH	**8.98**	0.01	pH Units	"	2007437	09/16/20	09/16/20	SM4500-H B	HT-F
Potassium	**4.3**	1.0	mg/L	"	2007444	09/16/20	09/17/20	EPA 200.7	
Sodium	**110**	1.0	"	"	"	"	09/16/20	"	
Specific Conductance (EC)	**1000**	1.0	µmhos/cm	"	2007504	09/17/20	09/17/20	EPA 120.1	
Sulfate as SO4	**120**	5.0	mg/L	10	2007435	09/16/20	09/16/20	EPA 300.0	
Total Alkalinity	**340**	5.0	"	1	2007450	09/16/20	09/16/20	SM2320B	
Total Dissolved Solids	**640**	10	"	"	2007479	09/17/20	09/21/20	SM2540C	
Turbidity	**2.7**	0.10	NTU	"	2007514	09/15/20	09/15/20	EPA 180.1	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
Diesel	ND	0.050	mg/L	1	2007471	09/16/20	09/17/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*132 %*	*65-135*		*"*	*"*	*"*	*"*	
Field Blank (20I0722-02) Water Sampled: 09/15/20 13:45 Received: 09/15/20 15:45									
Diesel	ND	0.050	mg/L	1	2007471	09/16/20	09/17/20	EPA 8015M	
Motor Oil	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*134 %*	*65-135*		*"*	*"*	*"*	*"*	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
Aluminum	ND	50	µg/L	1	2007444	09/16/20	09/16/20	EPA 200.7	
Arsenic	ND	2.0	"	"	2007496	09/17/20	09/17/20	EPA 200.8	
Barium	**40**	20	"	"	2007444	09/16/20	09/16/20	EPA 200.7	
Cadmium	ND	10	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	"	"	
Iron	ND	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	2007496	09/17/20	09/17/20	EPA 200.8	
Manganese	ND	10	"	"	2007444	09/16/20	09/16/20	EPA 200.7	
Mercury	ND	0.20	"	"	2007521	09/18/20	09/21/20	EPA 245.1	
Selenium	ND	5.0	"	"	2007496	09/17/20	09/17/20	EPA 200.8	
Zinc	ND	20	"	"	2007444	09/16/20	09/16/20	EPA 200.7	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
E. Coli	**33**	1.8	MPN/100 mL	1	2007452	09/15/20	09/18/20	SM 9221	
Fecal Coliforms	**33**	1.8	"	"	"	"	"	"	
Total Coliforms	**220**	1.8	"	"	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
Bolstar	ND	0.050	µg/L	1	2007476	09/17/20	09/18/20	EPA 8141A	
Chlorpyrifos	ND	0.050	"	"	"	"	"	"	
Coumaphos	ND	0.10	"	"	"	"	"	"	
Demeton	ND	0.10	"	"	"	"	"	"	
Diazinon	ND	0.050	"	"	"	"	"	"	
Dichlorvos	ND	0.10	"	"	"	"	"	"	
Disulfoton	ND	0.050	"	"	"	"	"	"	
Ethoprop	ND	0.050	"	"	"	"	"	"	
Fensulfothion	ND	0.050	"	"	"	"	"	"	
Fenthion	ND	0.050	"	"	"	"	"	"	
Guthion	ND	0.10	"	"	"	"	"	"	
Malathion	ND	0.050	"	"	"	"	"	"	
Merphos	ND	0.050	"	"	"	"	"	"	
Methyl parathion	ND	0.050	"	"	"	"	"	"	
Mevinphos	ND	0.050	"	"	"	"	"	"	
Phorate	ND	0.050	"	"	"	"	"	"	
Prothiofos	ND	0.050	"	"	"	"	"	"	
Ronnel	ND	0.050	"	"	"	"	"	"	
Stirophos	ND	0.050	"	"	"	"	"	"	
Trichloronate	ND	0.050	"	"	"	"	"	"	
Surrogate: EPN		*82 %*		*50-150*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Storz Pond (20I0722-01) Water Sampled: 09/15/20 13:30 Received: 09/15/20 15:45									
Benzene	ND	0.50	µg/L	1	2007522	09/17/20	09/17/20	EPA 8260B	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92 %*		*72-125*	"	"	"	"	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007477 - EPA 8151A										
Blank (2007477-BLK1)				Prepared: 09/17/20 Analyzed: 09/18/20						
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	µg/L							
Dalapon	ND	2.0	"							
2,4-DB	ND	2.0	"							
Dicamba	ND	1.0	"							
Dichloroprop	ND	2.0	"							
Dinoseb	ND	1.0	"							
MCPA	ND	250	"							
MCPP	ND	250	"							
Pentachlorophenol	ND	0.20	"							
2,4,5-T	ND	0.50	"							
2,4,5-TP (Silvex)	ND	0.20	"							
Surrogate: 2,4-DCAA	*2.12*		*"*	*2.50*		*85*	*50-150*			
LCS (2007477-BS1)				Prepared: 09/17/20 Analyzed: 09/18/20						
Dicamba	1.22	1.0	µg/L	1.25		98	50-150			
Dichloroprop	1.52	2.0	"	1.25		121	50-150			
Surrogate: 2,4-DCAA	*2.96*		*"*	*2.50*		*118*	*50-150*			
LCS Dup (2007477-BSD1)				Prepared: 09/17/20 Analyzed: 09/18/20						
Dicamba	1.09	1.0	µg/L	1.25		88	50-150	11	30	
Dichloroprop	1.44	2.0	"	1.25		115	50-150	5	30	
Surrogate: 2,4-DCAA	*2.60*		*"*	*2.50*		*104*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007435 - General Prep										
Blank (2007435-BLK1)				Prepared & Analyzed: 09/16/20						
Chloride	ND	0.50	mg/L							
Fluoride	ND	0.10	"							
Sulfate as SO4	ND	0.50	"							
Nitrate as N	ND	0.40	"							
LCS (2007435-BS1)				Prepared & Analyzed: 09/16/20						
Fluoride	2.12	0.10	mg/L	2.00		106	80-120			
Sulfate as SO4	5.16	0.50	"	5.00		103	80-120			
Chloride	4.65	0.50	"	5.00		93	80-120			
Nitrate as N	1.98	0.40	"	2.00		99	80-120			
LCS Dup (2007435-BSD1)				Prepared & Analyzed: 09/16/20						
Chloride	4.65	0.50	mg/L	5.00		93	80-120	0.07	20	
Fluoride	2.08	0.10	"	2.00		104	80-120	2	20	
Sulfate as SO4	5.11	0.50	"	5.00		102	80-120	0.9	20	
Nitrate as N	1.97	0.40	"	2.00		98	80-120	0.9	20	
Matrix Spike (2007435-MS1)	**Source: 20I0725-01**			Prepared & Analyzed: 09/16/20						
Chloride	16.6	0.50	mg/L	5.00	11.7	97	80-120			
Sulfate as SO4	11.7	0.50	"	5.00	6.45	104	80-120			
Fluoride	2.15	0.10	"	2.00	0.0589	104	80-120			
Nitrate as N	9.88	0.40	"	2.00	8.39	74	80-120			QM-4X
Matrix Spike Dup (2007435-MSD1)	**Source: 20I0725-01**			Prepared & Analyzed: 09/16/20						
Sulfate as SO4	11.6	0.50	mg/L	5.00	6.45	102	80-120	0.8	20	
Fluoride	1.95	0.10	"	2.00	0.0589	95	80-120	10	20	
Chloride	16.5	0.50	"	5.00	11.7	95	80-120	0.5	20	
Nitrate as N	9.88	0.40	"	2.00	8.39	74	80-120	0.008	20	QM-4X

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007437 - General Prep										
Duplicate (2007437-DUP1)		**Source: 20I0703-01**		Prepared & Analyzed: 09/16/20						
pH	7.36	0.01	pH Units		7.38			0.271	20	
Duplicate (2007437-DUP2)		**Source: 20I0721-08**		Prepared & Analyzed: 09/16/20						
pH	6.77	0.01	pH Units		6.84			1.03	20	
Batch 2007444 - EPA 200 Series										
Blank (2007444-BLK1)				Prepared & Analyzed: 09/16/20						
Calcium	ND	1.0	mg/L							
Hardness as CaCO3	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (2007444-BS1)				Prepared & Analyzed: 09/16/20						
Calcium	5.15	1.0	mg/L	5.00		103	85-115			
Magnesium	5.20	1.0	"	5.00		104	85-115			
Potassium	5.24	1.0	"	5.00		105	85-115			
Sodium	5.39	1.0	"	5.00		108	85-115			
Matrix Spike (2007444-MS1)		**Source: 20I0725-01**		Prepared & Analyzed: 09/16/20						
Calcium	34.2	1.0	mg/L	5.00	29.6	94	70-130			
Magnesium	14.8	1.0	"	5.00	9.99	96	70-130			
Potassium	6.74	1.0	"	5.00	1.47	105	70-130			QM-7
Sodium	18.7	1.0	"	5.00	13.9	97	70-130			
Matrix Spike (2007444-MS2)		**Source: 20I0722-01**		Prepared & Analyzed: 09/16/20						
Calcium	21.0	1.0	mg/L	5.00	16.5	90	70-130			
Magnesium	67.6	1.0	"	5.00	65.1	50	70-130			QM-7
Potassium	11.7	1.0	"	5.00	4.33	147	70-130			QM-7
Sodium	108	1.0	"	5.00	110	NR	70-130			QM-7

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007450 - General Preparation										
Blank (2007450-BLK1)				Prepared & Analyzed: 09/16/20						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							
Duplicate (2007450-DUP1)	**Source: 20I0724-01**			Prepared & Analyzed: 09/16/20						
Total Alkalinity	11.0	5.0	mg/L		11.0			0	20	
Bicarbonate as CaCO3	11.0	5.0	"		11.0			0	20	
Carbonate as CaCO3	ND	5.0	"		ND				20	
Hydroxide as CaCO3	ND	5.0	"		ND				20	
Batch 2007478 - General Preparation										
Blank (2007478-BLK1)				Prepared & Analyzed: 09/17/20						
MBAS as LAS, mol wt 340	ND	0.10	mg/L							
LCS (2007478-BS1)				Prepared & Analyzed: 09/17/20						
MBAS as LAS, mol wt 340	0.455	0.10	mg/L	0.500		91	80-120			
LCS Dup (2007478-BSD1)				Prepared & Analyzed: 09/17/20						
MBAS as LAS, mol wt 340	0.470	0.10	mg/L	0.500		94	80-120	3	20	
Matrix Spike (2007478-MS1)	**Source: 20I0722-01**			Prepared & Analyzed: 09/17/20						
MBAS as LAS, mol wt 340	0.529	0.10	mg/L	0.500	ND	106	75-125			
Matrix Spike Dup (2007478-MSD1)	**Source: 20I0722-01**			Prepared & Analyzed: 09/17/20						
MBAS as LAS, mol wt 340	0.526	0.10	mg/L	0.500	ND	105	75-125	0.6	25	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007479 - General Preparation										
Blank (2007479-BLK1)				Prepared: 09/17/20 Analyzed: 09/21/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (2007479-DUP1)		**Source: 20I0710-01**		Prepared: 09/17/20 Analyzed: 09/21/20						
Total Dissolved Solids	92.0	10	mg/L		83.0			10	20	
Batch 2007504 - General Prep										
Blank (2007504-BLK1)				Prepared & Analyzed: 09/17/20						
Specific Conductance (EC)	ND	1.0	µmhos/cm							
Duplicate (2007504-DUP1)		**Source: 20I0794-01**		Prepared & Analyzed: 09/17/20						
Specific Conductance (EC)	546	1.0	µmhos/cm		555			1.63	20	
Batch 2007514 - General										
Blank (2007514-BLK1)				Prepared & Analyzed: 09/15/20						
Turbidity	ND	0.10	NTU							
Duplicate (2007514-DUP1)		**Source: 20I0630-01**		Prepared & Analyzed: 09/15/20						
Turbidity	1.94	0.10	NTU		1.92			1	20	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007471 - EPA 3510B GCNV										
Blank (2007471-BLK1)				Prepared: 09/16/20 Analyzed: 09/17/20						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0317*		*"*	*0.0250*		*127*	*65-135*			
LCS (2007471-BS1)				Prepared: 09/16/20 Analyzed: 09/17/20						
Diesel	2.13	0.050	mg/L	2.50		85	65-135			
Surrogate: o-Terphenyl	*0.0287*		*"*	*0.0250*		*115*	*65-135*			
LCS Dup (2007471-BSD1)				Prepared: 09/16/20 Analyzed: 09/17/20						
Diesel	2.56	0.050	mg/L	2.50		103	65-135	18	30	
Surrogate: o-Terphenyl	*0.0327*		*"*	*0.0250*		*131*	*65-135*			
Matrix Spike (2007471-MS1)		**Source: 20I0622-01**		Prepared: 09/16/20 Analyzed: 09/17/20						
Diesel	3.30	0.050	mg/L	2.50	ND	132	46-137			
Surrogate: o-Terphenyl	*0.0356*		*"*	*0.0250*		*142*	*65-135*			*QS-4*
Matrix Spike Dup (2007471-MSD1)		**Source: 20I0622-01**		Prepared: 09/16/20 Analyzed: 09/17/20						
Diesel	2.84	0.050	mg/L	2.50	ND	114	46-137	15	30	
Surrogate: o-Terphenyl	*0.0335*		*"*	*0.0250*		*134*	*65-135*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
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Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007444 - EPA 200 Series										
Blank (2007444-BLK1)				Prepared & Analyzed: 09/16/20						
Aluminum	ND	50	µg/L							
Barium	ND	20	"							
Boron	ND	50	"							
Cadmium	ND	10	"							
Chromium	ND	10	"							
Copper	ND	10	"							
Iron	ND	100	"							
Manganese	ND	10	"							
Sodium	ND	1000	"							
Zinc	ND	20	"							
LCS (2007444-BS1)				Prepared & Analyzed: 09/16/20						
Aluminum	5020	50	µg/L	5000		100	85-115			
Barium	1060	20	"	1000		106	85-115			
Boron	1050	50	"	1000		105	85-115			
Cadmium	1080	10	"	1000		108	85-115			
Chromium	1060	10	"	1000		106	85-115			
Copper	1060	10	"	1000		106	85-115			
Iron	1070	100	"	1000		107	85-115			
Manganese	1090	10	"	1000		109	85-115			
Sodium	5390	1000	"	5000		108	85-115			
Zinc	1090	20	"	1000		109	85-115			
Matrix Spike (2007444-MS1)	**Source: 20I0725-01**			Prepared & Analyzed: 09/16/20						
Aluminum	5100	50	µg/L	5000	85.8	100	70-130			
Barium	1090	20	"	1000	34.3	105	70-130			
Boron	1140	50	"	1000	75.9	107	70-130			
Cadmium	1080	10	"	1000	ND	108	70-130			
Chromium	1060	10	"	1000	ND	106	70-130			
Copper	1050	10	"	1000	ND	105	70-130			
Iron	1140	100	"	1000	76.1	107	70-130			
Manganese	1240	10	"	1000	178	106	70-130			

Luhdorff & Scalmanini	Project:	Teichert Woodland
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COC #: 209132

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007444 - EPA 200 Series										
Matrix Spike (2007444-MS1)		**Source: 20I0725-01**		Prepared & Analyzed: 09/16/20						
Sodium	18700	1000	µg/L	5000	13900	97	70-130			
Zinc	1100	20	"	1000	ND	110	70-130			
Matrix Spike (2007444-MS2)		**Source: 20I0722-01**		Prepared & Analyzed: 09/16/20						
Aluminum	4780	50	µg/L	5000	ND	96	70-130			
Barium	1090	20	"	1000	39.6	105	70-130			
Boron	5200	50	"	1000	4280	92	70-130			
Cadmium	1030	10	"	1000	ND	103	70-130			
Chromium	1010	10	"	1000	ND	101	70-130			
Copper	991	10	"	1000	ND	99	70-130			
Iron	1060	100	"	1000	25.1	104	70-130			
Manganese	1010	10	"	1000	6.81	101	70-130			
Sodium	108000	1000	"	5000	110000	NR	70-130			QM-4X
Zinc	1080	20	"	1000	5.00	108	70-130			
Batch 2007496 - EPA 200 Series										
Blank (2007496-BLK1)				Prepared & Analyzed: 09/17/20						
Arsenic	ND	2.0	µg/L							
Lead	ND	5.0	"							
Selenium	ND	5.0	"							
LCS (2007496-BS1)				Prepared & Analyzed: 09/17/20						
Arsenic	106	2.0	µg/L	100		106	85-115			
Lead	99.3	5.0	"	100		99	85-115			
Selenium	102	5.0	"	100		102	85-115			

Luhdorff & Scalmanini	Project:	Teichert Woodland
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Woodland, CA 95695	Project Manager:	Jeanette Lovelis

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COC #: 209132

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007496 - EPA 200 Series										
Matrix Spike (2007496-MS1)		**Source: 20I0653-01**		Prepared & Analyzed: 09/17/20						
Arsenic	109	2.0	µg/L	100	5.53	103	70-130			
Lead	99.1	5.0	"	100	0.413	99	70-130			
Selenium	95.4	5.0	"	100	ND	95	70-130			
Batch 2007521 - EPA 7470A										
Blank (2007521-BLK1)				Prepared: 09/18/20 Analyzed: 09/21/20						
Mercury	ND	0.20	µg/L							
LCS (2007521-BS1)				Prepared: 09/18/20 Analyzed: 09/21/20						
Mercury	4.41	0.20	µg/L	5.00		88	85-115			
Matrix Spike (2007521-MS1)		**Source: 20I0722-01**		Prepared: 09/18/20 Analyzed: 09/21/20						
Mercury	4.34	0.20	µg/L	5.00	ND	87	70-130			
Matrix Spike (2007521-MS2)		**Source: 20I0894-01**		Prepared: 09/18/20 Analyzed: 09/21/20						
Mercury	4.71	0.20	µg/L	5.00	ND	94	70-130			
Matrix Spike Dup (2007521-MSD1)		**Source: 20I0722-01**		Prepared: 09/18/20 Analyzed: 09/21/20						
Mercury	4.40	0.20	µg/L	5.00	ND	88	70-130	1	25	

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007476 - EPA 3510B GCNV										
Blank (2007476-BLK1)				Prepared: 09/17/20 Analyzed: 09/18/20						
Bolstar	ND	0.050	µg/L							
Chlorpyrifos	ND	0.050	"							
Coumaphos	ND	0.10	"							
Demeton	ND	0.10	"							
Diazinon	ND	0.050	"							
Dichlorvos	ND	0.10	"							
Disulfoton	ND	0.050	"							
Ethoprop	ND	0.050	"							
Fensulfothion	ND	0.050	"							
Fenthion	ND	0.050	"							
Guthion	ND	0.10	"							
Malathion	ND	0.050	"							
Merphos	ND	0.050	"							
Methyl parathion	ND	0.050	"							
Mevinphos	ND	0.050	"							
Phorate	ND	0.050	"							
Prothiofos	ND	0.050	"							
Ronnel	ND	0.050	"							
Stirophos	ND	0.050	"							
Trichloronate	ND	0.050	"							
Surrogate: EPN	*2.04*		*"*	*2.50*		*82*	*50-150*			
LCS (2007476-BS1)				Prepared: 09/17/20 Analyzed: 09/18/20						
Methyl parathion	0.152	0.050	µg/L	0.250		61	50-150			
Ronnel	0.141	0.050	"	0.250		56	50-150			
Stirophos	0.284	0.050	"	0.250		113	50-150			
Trichloronate	0.137	0.050	"	0.250		55	50-150			
Surrogate: EPN	*1.94*		*"*	*2.50*		*78*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007476 - EPA 3510B GCNV										
LCS Dup (2007476-BSD1)				Prepared: 09/17/20 Analyzed: 09/18/20						
Methyl parathion	0.152	0.050	µg/L	0.250		61	50-150	0.4	30	
Ronnel	0.145	0.050	"	0.250		58	50-150	3	30	
Stirophos	0.275	0.050	"	0.250		110	50-150	3	30	
Trichloronate	0.140	0.050	"	0.250		56	50-150	2	30	
Surrogate: EPN	*1.86*		*"*	*2.50*		*74*	*50-150*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007522 - EPA 5030 Water MS										
Blank (2007522-BLK1)				Prepared & Analyzed: 09/17/20						
Di-isopropyl ether	ND	0.50	µg/L							
Ethyl tert-butyl ether	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: Toluene-d8	*9.22*		*"*	*10.0*		*92*	*72-125*			
LCS (2007522-BS1)				Prepared & Analyzed: 09/17/20						
Methyl tert-butyl ether	19.7	0.50	µg/L	20.0		98	52-130			
Surrogate: Toluene-d8	*9.45*		*"*	*10.0*		*95*	*72-125*			
LCS Dup (2007522-BSD1)				Prepared & Analyzed: 09/17/20						
Methyl tert-butyl ether	19.1	0.50	µg/L	20.0		96	52-130	3	30	
Surrogate: Toluene-d8	*9.48*		*"*	*10.0*		*95*	*72-125*			

Luhdorff & Scalmanini	Project:	Teichert Woodland	
500 First St.	Project Number:	17-1-004	**CLS Work Order #: 20I0722**
Woodland, CA 95695	Project Manager:	Jeanette Lovelis	COC #: 209132

Notes and Definitions

QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
HT-F	This is a field test method and it is performed in the lab outside holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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INSPECTOR'S DAILY REPORT

Client: Teichert Woodland
Project Name:
Project No.:
Contractor:
Item(s) of Work:

Date: 3-30-20
Location:
Day: M T W T F S S
Weather:
Time: Arrived: Left:

Time	Description
0940	Store Pond
	PH: 8.59 EC = 1318 TDS = 857 ORP = 130.4
	T = 15.9°C Turb = 2.34
1200	Muller Pond
	PH = 8.50 EC = 812 TDS = 529 ORP = 196
	T = 18.1°C Turb = 12.9

Signature:

Schwarzgraber well

Field Purge Data (Monitoring Wells)

Project Information			
Client Teichert Woodland	Date 3/30/20	Project No.	
Project	Technician SEK		

Well Information			
Well ID Schwarzgraber	Total Depth 65'	Casing Diameter 10"	PVC/Steel
Static Depth to Water (ft) 43.7	MP above GS (ft)		

Fluid Volumes

Standing Water Column (ft) 22' x ~~100~~ 4949 (0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8")) = 90 Casing Volume (gal)

Casing Volume x 3 = 270 gallons / 5gpm = 54 minutes

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°/°C)	pH	Spec Cond (µS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)	
1325	0	~5									
1335	10		~50	18.5	7.76	694	8.54	137.9	8.14	454	
1340	15			18.1	7.77	692	10.1	136.5	7.98	473	
1355	30		~150	17.9	7.74	684	5.95	135.7	8.10	445	
1410	45			17.3	7.73	686	5.56	125.1	8.11	446	
1425	60		~300	17.0	7.75	682	3.57	128	8.06	443	

Notes Sample Collected @ 1430

Signature

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TA-25 Storz

Field Purge Data (Monitoring Wells)

Project Information			
Client	Date 3/31/20	Project No.	
Project	Technician		

Well Information			
Well ID	Total Depth 71'	Casing Diameter 2"	PVC/Steel
Static Depth to Water (ft) 37.94	MP above GS (ft)		

Fluid Volumes

Standing Water Column (ft) 33 x (0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8")) = 5.3 Casing Volume (gal)

Casing Volume x 3 = 15.9

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°C)	pH	Spec Cond (µS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)
1000 ~~1005~~	0	~5								
1005	5		~~25~~	18.2	7.68	1015	15.4	111.0	5.33	660
1010	10		~50	18.7	7.73	1110	9.6	108.7	6.44	678
1015	15		~75	18.1	7.71	1085	4.9	113.1	5.23	673

Notes

TA-25
3.31.20
1015

Page ____ of ____

Signature

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TA-14

Field Purge Data (Monitoring Wells)

Project Information			
Client		Date 3-31-20	Project No.
Project		Technician	

Well Information				
Well ID	Total Depth 37'	Casing Diameter 2"	PVC/Steel
Static Depth to Water (ft) 30.07	MP above GS (ft)		

Fluid Volumes

Standing Water Column (ft) 7 x 0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8") = 1.1 Casing Volume (gal)

Casing Volume x 3 = 3gallons

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°/°C)	pH	Spec Cond (µS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)	
	0										

Notes Casing Bent can't get Pump Down!!

Page ____ of ____

Signature

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TA-13A

Field Purge Data (Monitoring Wells)

Project Information			
Client	Date 3-31-20	Project No.	
Project	Technician		

Well Information				
Well ID	Total Depth 61.5	Casing Diameter 2"	PVC/Steel	
Static Depth to Water (ft) 45.6	MP above GS (ft)			

Fluid Volumes			
Standing Water Column (ft) 16'	x 0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8")	= 2.6	Casing Volume (gal)
Casing Volume x 3 = 7.8 gallons			

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°/C°)	pH	Spec Cond (uS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)
1120	0	~2								
1125	5	~2	~10	16.3	7.69	769	690.	125.3	5.66	499
1130	10	~2	~20	17.2	7.68	819	47.2	125.2	5.04	532
1135	15		~30	17.0	7.68	838	9.51	130	5.15	545
1140	20	~2	~40	17.1	7.69	832	5.8	130.7	5.03	541

Notes

Could not deploy pump past ~55'

so, only 10' of H_2O in column.

TA-13A 3.31.20 1140

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Page ____ of ____

Signature

TA-18

Field Purge Data (Monitoring Wells)

Project Information			
Client		Date 3-31-20	Project No.
Project		Technician Josh	

Well Information			
Well ID	Total Depth 60'	Casing Diameter	(PVC)/Steel
Static Depth to Water (ft) 27.04		MP above GS (ft)	

Fluid Volumes

Standing Water Column (ft) 33' x (0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8")) = 5.3 Casing Volume (gal)

Casing Volume x 3 = 15.9 gallons

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°/(C))	pH	Spec Cond (µS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)
1255	0	~3								
1300	5		15	18.1	7.77	869	22.1	142.3	4.94	565
1305	10		30	17.3	7.72	869	8.22	122.4	4.83	565
1310	15	~3	45	17.1	7.73	871	4.83	121.7	4.91	568

Notes TA-18
3-31-20
1315

Signature

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Field Purge Data (Monitoring Wells)

Project Information

Client Tiechert	Date 3-31-2020	Project No.	
Project Tiechert Woodland	Technician B. Kearney		

Well Information

Well ID Stephens	Total Depth 75'	Casing Diameter 16"	PVC/Steel
Static Depth to Water (ft) 47.30'	MP above GS (ft) 1.0'	75-46.30' = 28.7'	

Fluid Volumes

Standing Water Column (ft) 28.7 x 0.16 (2"); 0.37 (3"); 0.65 (4"); 1.0 (5"); 1.5(6"); 2.6 (8") 10.4 ≈ 298.5 Casing Volume (gal)

Casing Volume x 3 = 895 gal

Collected Data

Clock Time	Pumping Time	Q (gpm)	Total Q (gal)	Temp (F°C)	pH	Spec Cond (µS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	TDS (mg/L)	
10:35	Ø	ON	Ø								
10:40	5	2.9	14.3	17.92	8.49	1204	5.56	130.0	7.31	0.781	↑Q
11:00	25	3.7	88.3	17.96	8.50	1226	1.98	123.7	5.04	0.796	
11:30	55	"	199.3	17.78	8.58	1240	2.14	186.0	5.30	0.803	
12:00	85	"	310.3	17.83	8.54	1248	1.43	200.5	5.55	0.808	
12:30	115	"	421.3	17.82	8.48	1265	2.27	208.8	6.05	0.813	
13:00	145	"	532.3	17.98	8.38	1243	0.58	228.1	6.01	0.805	
13:30	175	"	643.3	18.08	8.40	1235	0.84	225.0	5.43	0.800	
14:00	205	"	754.3	18.10	8.42	1233	0.91	224.1	6.31	0.795	
14:45	250	"	920.8	18.13	8.40	1228	0.85	222.3	6.04	0.802	sample

Notes

N 38.68491° W 121.86669° NAD 83 handheld GPS

Bryan Kearney
Signature

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