Final Data Gaps Work Plan

TAYLOR WAY AND ALEXANDER AVENUE FILL AREA SITE

TACOMA, WASHINGTON

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This report was prepared by the staff of Dalton, Olmsted, & Fuglevand, Inc., under the supervision of the hydrogeologist whose seal and signature appear hereon.

The findings, recommendations, specifications, or professional opinions have been prepared in accordance with generally accepted professional geologic practices in Western Washington for the nature of services authorized by the client at the time the services were provided. No warranty is expressed or implied.

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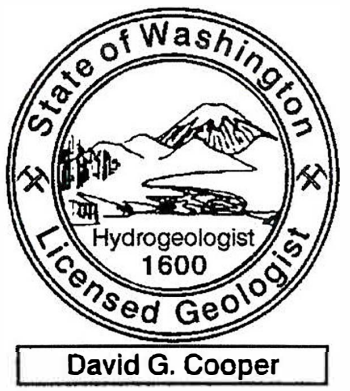

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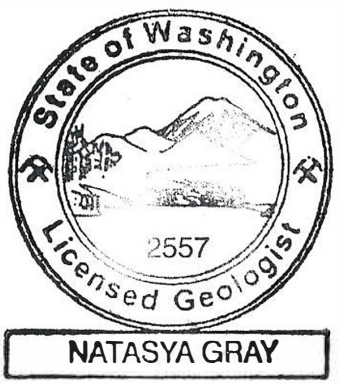

1.0 INTRODUCTION

Dalton, Olmsted, and Fuglevand, Inc. (DOF), has prepared this Revised Data Gaps Work Plan (Work Plan) for the Taylor Way and Alexander Avenue Fill Area (TWAAFA) Site on behalf of Glenn Springs Holdings, Inc. (Occidental Chemical), the Port of Tacoma, General Metals of Tacoma (GMT), and Stericycle Environmental Solutions, Inc. (Stericycle). These parties are among those potentially liable parties (each a "PLP", collectively, the "PLPs") identified in the draft Agreed Order Number 14260 proposed by the Washington State Department of Ecology (Ecology). These PLPs have agreed to prepare this Work Plan requested by Ecology to be incorporated into the proposed final Agreed Order.

A draft work plan was submitted to Ecology in August 2017 (DOF, 2017). Ecology issued comments on the draft Work Plan in February 2018 (Ecology, 2018a) and the PLP group subsequently met with Ecology in April 2018 to resolve questions related to those comments. A Response to Comments letter was submitted to Ecology on May 18, 2018 (DOF, 2018) to describe the planned approach to revising the Work Plan and Ecology conditionally approved that approach in a letter dated August 3, 2018 (Ecology, 2018b). Per the conditional approval, revised maps summarizing fill materials at the site and proposed sampling locations for the Data Gaps work were submitted to Ecology on October 17, 2018 via email. Ecology confirmed the maps were acceptable on November 26, 2018 and the PLPs proceeded with revision of this Data Gaps Work Plan consistent with the agreed to approach.

Figure 1 shows the location of the TWAAFA Site and Figure 2 shows the properties included within it. This Work Plan is intended to:

- Collectively summarize information from historical investigations of the individual parcels making up the TWAAFA Site.
- Identify possible data gaps in the available historical data that will facilitate proceeding to a Feasibility Study under the Washington Model Toxics Control Act (MTCA), and methods to fill such gaps.
- Identify requirements necessary for a site-wide Groundwater Monitoring Plan to address data gaps and fulfill regulatory actions outlined by Ecology in a draft Agreed Order for the TWAAFA Site.

Much of the TWAAFA data have been obtained and summarized in Remedial Investigation (RI) reports prepared for the Stericycle and Port of Tacoma properties. In addition, several historical investigations of the CleanCare property will supplement these RI reports, as well as routine progress reports submitted to Ecology by the PLPs. DOF reviewed many of these past investigation reports to develop this Work Plan. A summary of the investigations found to be most relevant to preparing a site wide summary for the TWAAFA site are described in Table 1. A detailed site history is available in several of these past documents, as well as in Ecology's proposed draft Agreed Order (Ecology, 2016).

The following types of information were identified for the individual TWAAFA parcels and are summarized in this Work Plan.

- Boring logs and various maps showing descriptions of type, location, and depth of waste fill materials (e.g. lime waste, wood waste, auto fluff, and petroleum saturation).

- Evaluations of seasonal variability and tidal influences on groundwater.
- Soil, groundwater, and soil vapor data from historical investigations.

2.0 HISTORICAL SITE INVESTIGATION

Most of the mapping and data compilation for this work plan was segmented by property and time period, although some properties have been investigated more thoroughly than others. The objective of the Data Gaps investigation of the TWAAFA Site is to bring together the multiple investigations and data sets available for the site and evaluate all relevant information in order to:

- Present a concise summary of TWAAFA site conditions and
- Identify data gaps in the overall site investigation.

In order to meet that objective, the major topics and findings of previous investigations were reviewed and the primary site constituents of concern were then focused on for summary and evaluation across the newly defined TWAFFA site. Historical site investigation borings and test pits reviewed for the TWAAFA site are shown on Figure 3. In response to Ecology comments, previously reported information (by various parties) relevant to the TWAAFA site has been included in this work plan to allow for easier reference.

There are a number of different nomenclatures that have been used during site investigation due to the extended history of investigation at the various parcels comprising the TWAAFA site. Table 2 has been prepared as an explanation of the various terminologies used to aid in review of historical data.

2.1 Site Geology

Site geology has been investigated and documented through the course of multiple investigations performed at the site. This section presents a summary of regional and local geology based on historical reports and more recently documented geotechnical investigations.

2.1.1 Regional Geology

The Puget Sound lowland is a north-south trending basin approximately 200 miles long and averaging about 40 miles wide. Multiple Pleistocene glacial advances have modified the regional geologic setting of the lowland leaving Quarternary deposits generally composed of regional drift sequences separated by unconformities and by nonglacial fluvial and lacustrine sediments. Thick sequences of alluvial sediments overlay the drift sequences in the major broad alluvial valleys (PSC, 2005).

Hart Crowser (1995) prepared a *Hydrogeologic Planning Report* for the area on behalf of Tacoma Public Utilities in which they divided the unconsolidated sediments in the Tacoma Tideflats area into two primary groups:

- Alluvium and marine deposits: This shallower group consists primarily of fine sandy recent alluvium and silty marine deposits from ground surface to depths of approximately 200 to 600 feet. These form a wedge-shaped mass that thickens toward Commencement Bay.

- Deeper glacial and interglacial deposits: This group underlies the alluvium and marine deposits. These are undifferentiated coarse- and fine-grained materials deposited during and between periods of glaciation. The glacial deposits occur as lenticular bodies of coarse-grained sand and gravel surrounded by a finer grained matrix of silt and silty sand. The coarse-grained beds apparently lie approximately parallel to the present Puyallup River valley.

2.1.2 Local Geology

The following local lithologic units have been identified at the site through review of historical soil boring and test pit logs, listed in order of increasing depth:

- Fill unit
- Silt unit
- Sand unit
- Deeper interbedded sand and silt unit

Each of these units is described below. Cross-sections of a large portion of the TWAAFA site were developed as part of the Stericycle RI Report. The general location of these cross-sections was reviewed as part of the data gaps assessment. Additional borings and test pit logs were identified in reports on the other properties within the TWAAFA site and cross-sections were updated to include information from this wider set of locations, providing a view of the geological units observed across the TWAAFA site. Cross-sections are included as Figures 4 through 7. The comprehensive set of boring and test pit logs compiled for the TWAAFA site is included as Appendix A.

Fill Unit

This unit consists of an upper fill unit composed of artificially emplaced materials (anthropogenic), is highly heterogeneous, and is approximately 5 to 15 feet thick in most areas, as discussed in the 2005 Stericycle property RI (PSC, 2005) and verified in other site documents prepared for other property parcels within the TWAAFA site. The 1991 Woodward Clyde Phase 2 Site Assessment report for the Hylebos Marsh property part of the TWAAFA site described encountering the fill unit at a thickness ranging from 8 to 15 feet. The 2006 Floyd Snider RI report for the 1514 Taylor Way property part of the TWAAFA site described encountering the fill unit at a thickness ranging from 3 to 8 feet thick (and slightly more in one area). Depending on the location, the fill unit contains one or more of the following types of material:

- Gravel road base
- Unconsolidated fill sediments – These include hydraulically dredged soils and other fill soils consisting of silty sand, gravelly sand, sandy silt, silt, and peat.
- Lime wastes – These consist of light-colored, unconsolidated, clay- or silt-sized particles. Some lime waste encountered has been impacted with tetracholoroethene (PCE) or tricholoroethene (TCE). Other area of lime waste contain no PCE or TCE.
- Auto fluff – This consists of silty sand intermixed with various automobile waste debris (e.g. glass, wire, metal, foam, and various automobile parts).
- Other solid wastes: These include wood wastes (e.g., sawdust, wood chips, and logs) and demolition waste (e.g., concrete, lumber, slagey sand)

Silt Unit

The silt unit is brown to gray, soft, and locally contains varying amounts of clay, sand, and organic matter. The unit generally appears massive, but locally it is bedded to thinly laminated. The silt unit

appears to be laterally continuous across the site. As part of the Stericycle RI the approximate depth to the top of the silt unit and unit thickness were mapped (Appendix B). The upper surface of the silt is generally encountered approximately 7 to 14 feet below grade (except in areas of particularly raised fill where it is deeper) and the elevation of the upper surface generally decreases toward the northeast and the south. The thickness was measureable at over 50 borings that penetrated it and varies from 1 to 20 feet across the site and most frequently found to be approximately 5 to 10 feet thick. See Table 3. The 1991 Woodward Clyde Phase 2 Site Assessment report for the Hylebos Marsh property part of the TWAAFA site described encountering the silt unit at a thickness ranging from 5 to 12 feet. The 2006 Floyd Snider RI report for the 1514 Taylor Way property part of the TWAAFA site described encountering the silt unit at a thickness ranging from 1 to 5 feet thick.

The historical silt surface and thickness maps in the Stericycle RI illustrated the silt as thinnest (potentially less than 1 foot) near SRI-10, CCW-2C, and CTMW-16. The locations where the top of the silt was most depressed were identified as SB-1, SRI-1, and CCW-2C. These locations were reviewed in closer detail as potential data gaps for the TWAAFA site characterization.

- SRI-10 is at the location of well pair CTMW-24/24D, which will be included in proposed TWAAFA groundwater monitoring.
- CCW-2C is part of a well pair with CCW-2B, included in proposed monitoring. A deeper well is also proposed in this area to evaluate concentrations deeper than those previously evaluated because existing data indicate this area of the site showed some of the highest historical concentrations of groundwater contaminants.
- CTMW-16 is in the vicinity of three existing groundwater well pairs (CTMW-11/12, CTMW-17/17D, and CCW-3A/B/C) that are proposed for TWAAFA monitoring.
- SRI-1 was located next to CCW-3A/B/C well pair, which are proposed for TWAAFA monitoring. The well log for SRI-1 indicates the Stericycle RI mapped silt thickness of 1 ft may underestimate actual conditions as the log indicates poor recovery in the depth interval where silty soils were first encountered (20-24 feet below ground [bgs]). Topographically this area is 8-10 feet above the location of CCW-3, immediately to the east, where silt was encountered at approximately 11.5 ft bgs, or generally the same elevation as silty soils began to be logged at SRI-1.
- Similarly, a review of the log for SB-1 indicates the silt layer may not be a depression. The 1991 log indicates the boring was only periodically sampled for visual logging with one sample collected around 2.5-4 feet bgs (sand) and the next one not collected until 13.5-15 feet bgs (clay). While the log indicates the top of clay to be 13.5 feet, it does not appear that soils between 4 and 13.5 feet were directly observed (i.e. the top of the clay/silt layer may be much shallower than 13.5 feet).

In general, the review of historical boring logs from across the site indicate variability in where the top of silt is encountered, as the earlier maps indicated, though potentially less extreme in some areas due to variability in soil recovery during logging. Notably, the vast majority of logs completed by various methods and personnel over a greater than 30 year period reported a fine grained unit underlying shallow fill and waste materials.

Review of more recent investigations conducted on the 1514 Taylor Way property (after the Stericycle RI) show that the silt layer was often thinner (less than 5 feet) in borings east of the CleanCare property;

however, they provide useful information about the geology at depth and consistently showed a deeper silt layer, as illustrated in Cross Sections B-B' and C-C' (Figures 6 and 7) because multiple borings were done in this area of the site for geotechnical purposes.

Sand Unit

A sand deposit underlies the silt unit. The sand is typically fine- to medium-grained, with a trace of silt and sometimes shell fragments. The unit varies in thickness from approximately 11 to 14 feet across the site and appears to be continuous.

Deeper Sand and Silt Unit

This unit consists of interbedded sand and silt. The interbeds vary from thin lamina, less than one inch thick, to beds several feet thick. The silt intervals typically are dark to olive gray, medium stiff to soft, have low plasticity, and are organic-rich. In some logs peat is specifically noted. The sand interbeds are dark gray to black, fine- to medium-grained, and medium dense to loose. This unit appears to be continuous across the site.

The deepest borings across the site, primarily conducted for geotechnical purposes, show an additional silt or clay layer several feet thick below the Sand Unit described above.

2.1.2.1 Geotechnical Studies

Several of the geotechnical investigations were completed recently, and are therefore of particular interest, providing additional information about the site lithology, particularly at deeper depths. Geotechnical investigations performed at different portions of the site include:

- Applied Geotechnology Inc. (1990) – Two borings were conducted on the CleanCare (former Northwest Processing) property in 1990 as part of planning for construction of tank and drum storage. The borings went to 44 and 59 feet bgs. Boring logs are included in Appendix A. The logs show sampling approximately every five feet revealing fill, underlain by sand and silt layers, including a thicker silt unit encountered in the deeper boring from approximately 43 to 54 feet bgs.

- Northwest Geophysical Associates, Inc. (1993) – Geophysical survey conducted at the Stericycle property to help delineate the distribution of fill types, subsurface LNAPL, water table, silt layer, and utilities. Because of the presence of artificial objects both above and belowground, the instrument responses were distorted. The contractor concluded that only the data from a small portion surveyed were useable. The usable data did distinguish a buried depression on the east side of the Stericycle property, four feet deep, likely the known former oil-disposal pit in the area of Parcel A (see Figure 19). The data also identified a subsurface interface on the west side of the Stericycle property, sloping from 1.5 to 2.5 feet bgs, and may have been a low-lying area that was filled and leveled prior to construction of the parking lot in this area (PSC, 2005).

- GeoEngineers (1995) – Completed 18 test pits and 3 auger borings at the Stericycle property to depths of up to 44 feet. Boring logs are included in Appendix A. The deeper logs reveal fill underlain by silty sand, silt, and sandier soils at depths over 18 feet bgs. The shallower test pits

show the variability in fill materials encountered (lime, gravel, 'garbage', auto fluff, wood debris, etc.).

- E3RA (2015) – Geotechnical evaluation for planned improvements at the Stericycle property. This report included review of past geotechnical data, as well as collection of new data. Historical data reviewed included the 1995 GeoEngineers data (GTP-1 through -18 and GB-1, -2, and -3), a 1986 auger boring by Applied Geotechnical Inc. to 59 feet bgs (AGIB-1), and auger boring exploration at 5 locations in 1984 by Western Geotechnical Inc. (WGIB-1, -4, -6, -7, and -8). Six CPT borings were performed as part of this investigations at depths of four to 30 feet bgs. Boring logs are included in Appendix A.

  E3RA described subsurface conditions: "Soil conditions are relatively consistent onsite. The primary variance observed within these explorations relate to the consistency of the fill soils which underlie the entirety of the project area. Generally, the site is underlain by a 2 to 5 foot cap of gravelly sand to sandy gravel fill in a medium dense to dense in situ condition… Underlying these gravelly soils, extending to depths of 13 to 15 feet, are fill soils with a relatively miscellaneous composition. Included within these fill soils is organic material, concrete/brick debris, lime waste, sawdust, larger woody debris, smelter slag, general garbage or refuse, and a material type typically referred to as "auto fluff". These fill soils overlie tideflat deposits of very soft to soft silt with organics, extending to depths of 18 to 28 feet. The thickest silt deposits were observed within the northwest corner of the site, adjacent to previous auger boring exploration GB-1. Soils encountered below the silt generally consisted of sand and silty sand in a loose to medium dense condition, with occasional silt layers. These soils extended to the termination of the deepest available exploration (AGIB-1), a depth of 59 feet."

- Terra Associates (2017) – Geotechnical evaluation conducted on the 1514 Taylor Way property. Five CPT borings to 60 feet bgs and 10 test pits were completed for this investigation. The report described finding five to ten feet of fill overlaying alluvial silts and sands. The fill consisted of silty sand with gravel, sand, and silt mixed with organics and construction rubble. The CPT data indicated highly variable interbedded alluvial soils composed of soils, clays, and silty sand layers to 35 to 42 feet followed by medium dense to dense silty sand and sand. Logs are included in Appendix A.

2.2 Evidence of Site Filling and Other Sources of Contamination

One of the defining features of the TWAAFA site, as to be described in the proposed draft Agreed Order, is the past use of the TWAAFA site properties as the Donald Oline owned and operated unpermitted landfill at the Site. Materials discarded and used as fill at the Landfill included lime waste, byproducts of auto scrapping (auto fluff), and wood waste. Boring and test pit logs for over 200 locations within the parcels making up the TWAAFA site were amassed and reviewed to develop comprehensive maps of the estimated extent of historical fill areas. The fill materials have been documented in previous reports to contain and be sources of the contaminants of concern present at the TWAFFA site. Table 4 differentiates the fill materials observed at the TWAAFA site. The primary types of fill material identified in logs included:

- Auto Fluff

- Presumed Lime Waste or related materials
- Wood Debris
- Other – this included glass, brick, general building materials debris, and in one area of the CleanCare parcel a “slagey sand”

Tables 5 through 9 summarize historical results of analytical testing of the various fills encountered at the site. Figure 8 shows the aerial extent of lime waste materials, based on visual descriptions included in individual geotech, boring and test pit logs. To improve the approximation of lime waste, in particular lime waste impacted with TCE or PCE, the following locations are highlighted in Figure 8, based on the direction from Ecology:

- Locations where elevated concentrations of TCE or PCE were detected in soil or groundwater. TCE and PCE were used as indicators and locations were flagged where either compound was detected in soil (ever) and all locations where either was detected above 5 µg/L in groundwater (ever). Table 10 summarizes which locations these are and the date of those detections.
- Locations where the written log of the boring or test pit included language related to lime waste, generally with elevated headspace readings (over 100 ppm) associated. This is a qualitative measure, but not all borings have data associated with them for comparison and Ecology’s comments indicate that this method was to be utilized. Locations flagged for this reason (and the date) are also noted in Table 10.
- Locations with logs and/or data that did not get flagged by the above methods was used to bound areas that appear to lie within the footprint of where “lime” has been observed, but information does not indicate specifically that PCE or TCE are also present.

Figure 9 shows the aerial extent of auto fluff fill where encountered and noted in historical logs. Figure 10 shows the aerial extent of wood fill where encountered and noted in historical logs. Light Non-Aqueous Phase Liquid (LNAPL) has also been encountered in the subsurface at the TWAAFA site and is included on Figure 11. These maps update previous versions presented in historical reports (Appendix C) for Stericycle and the Port of Tacoma, utilizing geotechnical logs, test pit and boring logs that were unavailable or not previously reviewed. The logs reviewed for this exercise are included in Appendix A. The historical reports listed in Table 1 include broader background about the different materials deposited at the TWAAFA site and possible sources of contamination; a brief summary is provided below along with descriptions of where materials have been observed as part of lithologic logging.

Auto fluff was more commonly observed on the northern side of the site, with a few smaller areas towards the south, and very little on the eastern and western parcels of the site. Auto fluff is generated from the mechanical pulverization of a varying scrap metal appliances and automobiles, etc.

Lime waste was found collocated with auto fluff towards the middle of the site and found in more locations on the southern half of the property than auto fluff. Very little lime waste was observed on the eastern and western parcels of the site. Two separate types of lime waste have been identified at the TWAAFA site, a high pH gypsum-based waste lime not impacted with PCE or TCE and a waste lime impacted with PCE or TCE. In some cases chemical samples were collected at locations where the lime

was encountered; however, in many historical visual logs a “white pasty material” was noted but chemical samples were not specifically collected to verify whether the waste was impacted with PCE or TCE. Where chemistry data readily identified whether particular lime was impacted with PCE or TCE, it has been distinguished on Figure 8.

Gypsum Lime **-** Results of historical testing of samples of the lime waste not impacted with PCE or TCE showed only low levels of constituents of concern and the material did not appear to be a source of contamination, though such material has a high pH. High pH can increase the mobility in groundwater of certain compounds (such as metals).

Lime Sludge **-** Results of historical testing of samples of the lime waste impacted with PCE or TCE also showed elevated levels of arsenic and lead. Such material also may have a high pH. Locations where there is evidence that the lime waste is impacted with PCE or TCE are found in a smaller portion of the overall site than lime waste that did not indicate the solvents presence. Lime wastes impacted with PCE or TCE were centered primarily in the area of the CleanCare property and immediately west of CleanCare on the Stericycle property, as shown on Figure 8.

Wood fill and some other types of debris were found over much of the northeastern half of the site with very little found on the west and south ends of the site. A sawmill was historically located in the CleanCare part of the TWAAFA site, but operational detail specifically about the wood fill generated by that mill was not identified. Degrading wood may be a source of methane in soil vapor detected at the TWAAFA site and was mapped as part of this Data Gaps Work Plan to aid in further addressing this aspect of site investigation and risk management (see Section 2.3.3).

LNAPL (waste oil) has been well documented in an area stretching from near the southern end of the CleanCare property, south towards the southern edge of the site, but not offsite in Alexander Avenue. This includes the area of the Stericycle parcel referred to as Former Parcel A (see Figure 19). This area was leased to an oil storage and waste-oil recycling company in the 1970s that had an unlined waste-oil pond that Ecology documented leaks from (PSC, 2005). The upper four feet of soil were excavated in the former Parcel A area in 1987 as part of remedial measures taken to address the former waste oil pond. Testing of samples of product encountered during historical site investigation found TPH, metals, petroleum related VOCs, and PCBs. Chlorinated solvents (and breakdown products) were not detected in those samples (PSC, 2005).

Slag has not commonly been described in logs of test pits and borings at the site, but was noted during the review completed for this Data Gaps investigation. A test pit conducted in 1995 as part of a geotechnical evaluation on the CleanCare property noted the presence of “slagey soil” (PGG, 1995a). The test pit was under a building pad on the west side of the CleanCare property and chemical samples were collected (see Figure 10 and Table 7). Slag is a commonly known source of heavy metals and arsenic. The source of this slag was not identified. The location was relatively small and buried below surface fill. The material was estimated by Pacific Groundwater Group in 1995 to be 35 by 60 by 4.5 feet thick (maximum depth of 6 feet) and shown on a historical map that was not to scale, nor surveyed, making it challenging to locate in present day. Based on the maps, it appears that this area was subsequently covered by concrete, asphalt, and/or a building after the 1995 sampling. It is relevant to the RI as an example of the type of additional waste and debris found at the site other than the broadly

discussed primary filing (wood, lime, autofluff, and LNAPL), but is not viewed as a data gap requiring further investigation.

Other probable sources of contamination related to historic use of the TWAAFA site have been documented over the property's lengthy industrial past. These include:

- Documented and potential chemical and oil spills from past CleanCare and Oline operations in the 1970s to 1990s. These include reports of leaking tanks and containers.
- Waste oil ponds near the center of the TWAAFA site, on or adjacent to the CleanCare parcel.
- Filling with various materials including dredge spoils, wood products, and occasional areas of construction debris including railroad ballast, empty drums, empty paint cans, car tires, and demolition debris as noted on Figure 10 (WCC, 1991).

2.3 Hydrogeology

The hydrogeology underlying the TWAAFA site has been well documented in prior investigations. This section presents a summary of regional and local hydrogeology based on historical reports associated with this site.

2.3.1 Regional Hydrogeology

The Stericycle RI (PSC, 2005) described the regional hydrogeology for the area of the TWAAFA site as follows:

> The Puget Sound aquifer system, which underlies approximately 7,200 square miles of the Puget Sound lowland, is composed of alluvial, glacial, and interglacial sediments of Quaternary age (Vaccaro et al., 1998). These sediments are composed primarily of recent alluvial, recessional and advance outwash, till, and other glaciofluvial and interglacial sediments.
>
> Vaccaro et al. (1998) divided the Quaternary deposits into regional hydrologic units- aquifers, semiconfining units, and confining units. The aquifer units generally consist of coarse-grained outwash deposited during glacial advances and retreats, proglacial deposits, and fluvial sediments deposited during glacial interstades. The semiconfining and confining units generally consist of fine-grained till, glaciomarine, mudflow, and lake deposits. This alternating sequence of coarse- and fine-grained deposits occurs from the ground surface to depths of more than 3,300 feet in the Puget Sound Basin, and its thickness averages about 400 feet. The thicknesses of individual hydrologic units vary from 10 to over 400 feet.
>
> The portion of the regional aquifer system relevant to this report is the portion of the lower Puyallup River basin and Commencement Bay of the Puget Sound, referred to as the Tideflats area. The unconsolidated sediments in the vicinity are estimated to be over 1,600 feet thick in the area (Hart Crowser, 1995).
>
> In the early 1800s, the Tacoma Tideflats area consisted of a tidal marsh and tidal flat at the location of the modem Port of Tacoma. The tidal flats, exposed during low tides, extended to approximately the present position of the Port facilities at the edge of Commencement Bay. Beginning in the late 1800s, a combination of filling and dredging took place in the tidal marshes

and flats to raise the ground surface and create waterways. The fill consists of dredged sands and silty sands, as well as wood and debris. The thickness and composition of the fill varies significantly throughout the area, but exceeds 25 feet in some areas (Hart Crowser, 1980).

Post-glacial sediments underlie the tidal marsh deposits in the vicinity. These sediments were deposited in a trough eroded into the underlying glacial deposits by the last advance of the ice. Deposits in the trough consist primarily of deltaic sediments deposited by the ancestral Puyallup River as it carried glacial meltwater and sediments from the receding glacier. These sediments tend to be coarse-grained and primarily consist of sands. The sands are interspersed with fine-grained tidal marsh and marine deposits, which are a remnant of sea level changes between approximately 16,000 and 4,000 years ago. These sediments are between 200 and 400 feet thick in the Tideflats (Hart Crowser, 1980). The deep interglacial and glacial sediments were deposited prior to and during the most recent Pleistocene glaciation, respectively, and consist of undifferentiated layers of coarse- and fine-grained materials.

Groundwater is present in multiple water-bearing zones within sediments in the Tideflats vicinity. The aquifer system underlying the Tideflats area is composed of alluvial, marine, glacial, and interglacial sediments of Quaternary age (Hart Crowser, 1995). The interbedded coarse- and fine-grained materials create a series of aquifers and confining units. Groundwater in deeper sediments is typically confined. Water levels in the confined aquifers are often at sea level or above, and wells completed in the deeper preglacial units have been reported to be flowing artesian.

The Tideflats are a regional groundwater discharge point, receiving underflow from the Puyallup River Valley and upland areas. Groundwater in the Puyallup River Valley generally flows toward the axis of the valley from the valley margins and then toward the marine waters of Commencement Bay (Hart Crowser, 1995).

2.3.2 Local Hydrogeology

Three hydrogeologic units have been identified at the site, listed in order of increasing depth:

Shallow

- The Shallow unit consists of unconfined shallow groundwater within the upper lithologic Fill Unit. The saturated thickness of the groundwater varies seasonally. The Stericycle RI reported that the saturated thickness is greatest in late winter or early spring and decreases in late summer or early autumn, and is as shallow as 2 feet at the southern boundary of the site (this shallow depth has also been reported on the 1514 Taylor Way portion of the site [Floyd Snider, 2017]).
- Groundwater in the fill sediments of the shallow aquifer is generally unconfined. Groundwater in the shallow aquifer is encountered at depths of less than one foot to greater than 10 feet. The saturated thickness of the aquifer typically ranges from two to 10 feet. Groundwater levels in this aquifer fluctuate several feet per year in response to seasonal variations in precipitation. The water levels in this aquifer are not influenced by short-term tidal fluctuations.

Silt

- The silt unit is a naturally-emplaced silt layer that underlies the upper fill unit and overlies the sand unit. The silt unit is soft and contains varying amounts of clay, sand, and organic matter. The silt unit appears continuous and can vary in thickness from less than one foot to about 10 feet.
- The silt unit is a native sediment composed of tidal marsh and tidal flat deposits, appears to be laterally continuous beneath the site, and act as a confining layer.

Deep

- Deltaic sands of the Puyallup River underlie the silt unit. The sands are saturated and present throughout the Port of Tacoma/Puyallup River delta (deep aquifer). Silt layers are present within this deeper zone and have been documented at the TWAAFA site in deeper geotechnical borings (greater than 50 feet bgs). The groundwater in this aquifer is semiconfined to confined. Groundwater levels in the deep aquifer are consistent with those of Commencement Bay, and small tidal influences on these groundwater levels have been observed. Currently the deepest groundwater monitoring wells at the site are 31 feet bgs.

Ecology requested additional information related to hydraulic properties and flow at the site, which were studied in great detail as part of the Stericycle RI (PSC, 2005). Tables from the Stericycle RI (PSC, 2005) summarizing the results of hydraulic conductivity and porosity tests are provided in Appendix D, as well as calculations made from field measured data. That report summarized the hydraulic properties as follows (condensed):

> **Shallow**: The shallow aquifer is present throughout the PSC Tacoma Facility (now Stericycle) and has been encountered at borings on neighboring properties also. The shallow aquifer is underlain by the silt aquitard. The saturated thickness of the shallow aquifer varies with both the horizontal coordinates and the time. Typically, the saturated thickness increases to a maximum for the year in late winter or early spring and decreases to a minimum in late summer or early autumn. The available data indicate the average saturated thickness is greatest beneath the CleanCare property, where it is over 12 feet. The map also shows local maxima near the pre-load area of the PSC Tacoma Facility (well CTMW-11) and on the City property (now Port of Tacoma) west of the facility (well SB-1); at both locations, the average saturated thickness is estimated to be about 9 feet. The average saturated thickness is lowest near the southwest comer of the PSC (now Stericycle) Tacoma Facility (boring CTMW-14), where it is approximately 2.1 feet.
>
> As Table 7-3 indicates, the horizontal hydraulic conductivity of the shallow aquifer has been estimated from slug tests to range from approximately 1×10^{-5} to 9×10^{-3} centimeters per second (cm/s) (SE/E, Feb 1988 and Aug 1989). This range of hydraulic conductivity estimates is consistent with that reported for silt and silty sand (approximately from 10^{-5} to 10^{-4} cm/s) by Freeze and Cherry (1979). Using a rigid-wall test, a sample of the fill sand from boring CTMW-20 was estimated to have a horizontal hydraulic conductivity of 1.3×10^{-2} cm/s. This value falls with the ranges of values reported by Freeze and Cherry (1979) for silty sands and for clean sands. Overall, the horizontal conductivity estimates for the shallow aquifer vary from approximately

10^{-5} to 10^{-2} cm/s (Table 7-4), a range spanning about three orders of magnitude. The geometric mean of the available horizontal hydraulic conductivity estimates is approximately 4 x 10^{-4} cm/s.

Vertical hydraulic conductivity estimates obtained from laboratory testing of shallow-aquifer samples range from about 5 x 10^{-7} to 4 x 10^{-2} cm/s (Table 7-3), a range that spans nearly five orders of magnitude. The highest vertical conductivity estimates for the shallow aquifer correspond to sand samples from borings SRI-23S, CTMW-19, and CTMW-20 (1.2 x 10^{-2}, 1.2 x 10^{-2} and 3.6 x 10^{-2} cm/s, respectively). The lowest shallow-aquifer vertical conductivity estimate corresponds to a sample of silty sand from direct-push boring GP-17 (4.5 x 10^{-7} cm/s). The sample was oily and contained wood debris. The average vertical horizontal hydraulic conductivity value is 1.6 x 10^{-4} cm/s.

The wide ranges of horizontal and vertical conductivity estimates indicate the shallow aquifer is highly heterogeneous with respect to hydraulic properties. This is consistent with the diverse range of materials comprising the fill unit.

The volumetric porosity of the shallow aquifer was estimated from laboratory testing of material samples. The porosity estimates vary approximately from 0.31 to 0.52 (Table 7-6). Freeze and Cherry (1979) give porosity ranges of 0.25 to 0.50 for sands, and 0.35 to 0.50 for silts. In addition, three estimates of the effective (drainable) porosity were obtained; they vary from 0.16 to 0.21 (Table 7-5).

Numerical estimates of the horizontal hydraulic gradients in the shallow aquifer for 1998 to 2001 are presented in Table 7-11. The horizontal gradient estimates vary from about 0.0026 to 0.086. The horizontal gradient generally was highest in the southwest half of the Resource Recovery. Inc., parking area, in the vicinity of monitoring wells CTMW-10 and CTMW-14 and piezometer PZ-5. As shown in Table 7-11, the seepage velocity generally ranged from about 5 to 50 feet per year. The velocities in the shallow aquifer were calculated using an average hydraulic conductivity and are directly proportional to the gradient. Areas with relatively high gradients, such as the southwest portion of the site, have the highest calculated velocities. The calculated seepage velocity beneath the northern portion of the site was generally lower.

Silt Unit: The silt aquitard is bounded above by the shallow aquifer and below by the deep aquifer. The silt aquitard is fully saturated throughout the PSC Tacoma Facility and the neighboring properties. Eight estimates of the silt aquitard's vertical hydraulic conductivity were obtained from laboratory testing of material samples (Table 7-3). The estimates vary from 3.4 x 10^{-5} to 8.3 x 10^{-6} cm/s, with an average of 7.9 x 10^{-7} cm/s (Table 7-4). The lowest estimate corresponds to a sample of clayey silt (from boring CTMW-17D). This value is slightly below the range given for silt/loess (~10-7 to 10-4 cm/s), but within the range given for clays (~10-10 to 10-7 cm/s), by Freeze and Cherry (1979). The highest estimate corresponds to a sample of sandy silt from boring SRI-23D. This value is within and near the lower end of the range of values given for silt/loess by Freeze and Cherry (1979). The relatively narrow range of values suggests that the conductivity of the silt aquitard is relatively homogeneous.

Eight estimates of the silt aquitard's volumetric porosity were obtained from laboratory tests on the same material samples that were tested for vertical hydraulic conductivity. The porosity

estimates range from 0.42 to 0.66 (Table 7-6). Five of the eight estimates exceed the upper limits of the ranges given for sands (0.25 to 0.50) and silts (0.35 to 0.50), but fall within the range given for clays (0.40 to 0.70) by Freeze and Cherry (1979). The sandy silt sample from boring PZ-6 was also tested for effective (drainable) porosity. The estimated effective porosity is 0.30 (Table 7-5), which is less than half the estimated volumetric porosity (0.66).

Deep: The unit is fully saturated and is hydraulically confined by the overlying silt aquitard. The contact between the silt aquitard and the deep aquifer slopes from the area beneath Parcel B toward the northwest.

The horizontal hydraulic conductivity (K_h) of the deep aquifer has been estimated (from slug tests) to be at least 10^{-2} cm/s (SE/E, Feb 1988) (Table 7-3). Freeze and Cherry (1979) report that hydraulic conductivities of clean sand range from about $10^{-3.5}$ (3×10^{-4}) to 1 cm/s, and those of silty sand range from 10^{-5} to 10^{-1} cm/s. This estimated value (K_h greater than or equal to 10^{-2} cm/s) is therefore consistent with the values reported in the literature for materials of similar lithology. The average vertical hydraulic conductivity of the deep aquifer is 1.3×10^{-2} cm/s (Table 7-4).

The horizontal hydraulic gradient was estimated, at multiple times, using groundwater-elevation measurements from one of the following well triplets: CTMW-7/9/12 or CTMW-7/9/17D. Assessment of long-term monitoring results showed the gradient was directed approximately toward the northeast during about half of the measurement events and approximately toward the southwest during the other half. The horizontal hydraulic gradient ranged from approximately 8×10^{-3} to 5×10^{-5}. Assessment of short-term monitoring event results showed a hydraulic gradient in the range from 1.8×10^{-4} to 3.2×10^{-4}.

Other hydrogeological evaluations of portions of the TWAAFA site were included in the 2017 Interim Action Work Plan for the 1514 Taylor Way part of the site (Floyd Snider, 2017). This report similarly reported:

- Seasonal variations in shallow fill aquifer groundwater elevations;
- The presence of the silt layer separating and confining the deeper aquifer unit;
- Tidal influence on the deeper groundwater unit; and
- Downward vertical gradient between the shallow fill and deeper aquifer unit wells.

2.3.3 Groundwater Elevations

Our review of historical data found that the most comprehensive water level monitoring events occurred in 2005-2006. During these events water levels were measured at permanent wells located on the Stericycle, Emerald, Potter, CleanCare, Port of Tacoma, and 1514 Taylor Way properties. They provide a good view of water levels across the TWAAFA site during different seasons and generally confirm groundwater flow patterns reported previously. Figures 12 through 17 depict the groundwater elevations for the shallow and deep units during the three periods (fall, winter, and spring) where wells across the TWAAFA site were measured concurrently. A broader set of historical groundwater elevation maps is provided in Appendix E for reference. While these older maps do not include as broad a set of wells measured, they do confirm that general patterns observed are consistent.

Particular attention was paid to the Hylebos Marsh part of the site where there are few monitoring wells, but several wells have been monitored as part of larger measurement events many times over the history of site investigation. These wells consistently show groundwater elevations that are lower than those observed east on the Stericycle property. Figure 18 summarizes historical water level trends for wells on the 1205 Alexander Avenue and 1300 Taylor Way property. It shows the comparison of water levels measured in the paired monitoring wells on this part of the site, where boring logs indicate the three deeper wells were installed shallower, with more screen in the silt unit than other deep wells at the TWAAFA site. The water level data indicate that there is a distinction in water levels between wells at the SB-1/-1A and the SB-2/-2A locations, but that at SB-3/-3A water levels tend to hover around the same elevation in shallow well SB-3A as they do in deeper well SB-3. Therefore well SB-3 is not reliably used for groundwater flow maps nor planned monitoring of the deep aquifer. Data for wells SB-1 and SB-2 do still appear relevant and distinguishable from shallower wells and therefore are recommended for use in assessment of the deep aquifer (albeit the top of that zone). A new deep well will is warranted at the location of SB-3.

Overall, shallow groundwater at the TWAAFA site generally flows radially out from a groundwater mound located near the center of the site, near the property boundary between the Stericycle and CleanCare properties. From the area of wells CTMW-11, CTMW-17, and PZ-10 (the highest groundwater elevation points), groundwater flows radially, west-southwest onto the 1205 Alexander Avenue and 1300 Taylor Way property, east-north east onto CleanCare and the 1514 Taylor Way properties, and south towards the Potter property. Elevations varied but the general flow directions were similar during each event.

Studies by others, as reported in the 2006 Floyd Snider RI report for the 1514 Taylor Way property part of the TWAAFA site, noted groundwater flow patterns consistent with this assessment, as well as noting the localized variability within the site may be related to irregularity and variation in the fill found in the shallow aquifer.

Groundwater within the deep aquifer flows from the northeast to the southwest. Groundwater elevations are generally flatter than the shallow groundwater, exhibiting approximately one foot or less variation across the TWAFFA site, and a downward gradient based on measurements at paired well locations.

Stericycle performed in-depth analysis of groundwater elevation data as part of the RI (PSC, 2005) to evaluate hydraulic behavior of the groundwater system and included evaluating data from other parcels within the TWAAFA site. This analysis included review of long-term groundwater elevation monitoring data collected monthly and quarterly over many years, as well as short-term monitoring events. Appendix F presents the hydrographs and other groundwater flow background from the Stericycle RI which provide a presentation of seasonal and tidal patterns in groundwater elevation at the site.

The Stericycle current groundwater monitoring plan includes measurement of water levels semiannually at a network of 39 wells across the TWAAFA site, excluding the 1514 Taylor Way property. The following subsections present a condensed summary of the findings from the Stericycle RI regarding groundwater elevation and flow. These findings are applicable to the TWAAFA site and refer to the hydrographs provided in Appendix F.

Shallow Groundwater

Shallow-aquifer groundwater levels exhibit prominent seasonal variations associated with seasonal variations in weather conditions, primarily precipitation. Generally the water levels are highest in the wet season, typically peaking in late winter, and lowest in the dry season, usually around late summer or early autumn. In the dry season, the water level at each well and piezometer typically drops about three feet below the high level of the previous winter. During the wet season the depth to groundwater can be less than one foot bgs, and in the dry season it still may be as shallow as three feet bgs.

The hydrographs for the wells screened in the shallow aquifer indicate that the average groundwater level at each shallow-aquifer well and piezometer appears to have been relatively stable during the period 1992 to 2002, with few exceptions. The average levels at wells CTMW-11 and CTMW-16 appear to have increased about 1 to 2 feet during this period. The average water level at well CTMW-18 appears to have increased about 1 foot between 1993 and 1997, but has remained relatively constant thereafter. All three wells were located in an area previously covered with several feet of construction pre-load fill. To understand these apparent trends in the water levels, it is useful to examine the corresponding temporal variations in precipitation and land surface characteristics.

As the hydrographs show, the total monthly precipitation was noticeably higher during the late 1990s than during the early 1990s. However, if increased precipitation alone was the cause of the upward trend of water levels at the shallow-aquifer wells in the pre-load area, then the water levels of other shallow- aquifer wells should exhibit similar upward trends. This does not appear to be the case.

When clean fill was placed in the pre-load area during the mid-1990s, the ground surface was raised approximately 4 to 8 feet locally. Immediately following the placement of the fill, the new ground surface was free of vegetation and uncompacted. The ground surface in the pre-load area remained uncompacted because almost no vehicle or foot traffic occurs there. These changes in land characteristics, in combination with the increased precipitation during the latter half of the decade, may have caused more precipitation to infiltrate the soil, which increased aquifer recharge and caused the shallow-aquifer water levels to increase locally.

A short-term water level monitoring event was completed at the CleanCare property in 1994 (Pacific Groundwater Group, 1994). Figure 7-2b (Appendix F) shows the shallow aquifer's potentiometric surface during an 11-hour tidal cycle, as documented during the September 1999 tidal study performed at the site. There does not appear to be significant water level fluctuation over the tidal cycle, as shown in the water level elevation maps over the time period.

Short-term water level monitoring events were also conducted on the Stericycle property in 1999 and 2001. The water-level fluctuations during these tests generally ranged from about 0.1 to 0.2 foot. The hydrographs indicate that the short-term variations in the shallow-aquifer water levels generally possess the following characteristics:

- Considerably lower in amplitude than the seasonal variations (i.e., tenths of a foot, versus feet)
- Apparently uncorrelated with the tide-induced water-level fluctuations at Commencement Bay
- Negatively correlated with simultaneous fluctuations in atmospheric pressure

Short-term fluctuations in the shallow-aquifer water levels recorded in 1999 appear to be inversely related to atmospheric-pressure fluctuations. That is, water-level increases are correlated with atmospheric- pressure decreases. This response, which is consistent with that observed during the 1994 short-term monitoring effort, is typical of a semiconfined or confined aquifer. Since the shallow aquifer is interpreted as being unconfined, this suggests that air may have been trapped in the saturated zone of the shallow aquifer.

Deep Groundwater

Water levels at wells completed in the deep aquifer at the PSC Tacoma Facility exhibit both long-term and short-term fluctuations. The deep aquifer is saturated throughout its full thickness, so fluctuations in deep-aquifer water levels represent variations in the pressure head rather than variations in the saturated thickness.

The historical water-level data for the deep aquifer were collected from wells CTMW-7, CTMW-9, and CTMW-12. The depth to groundwater in the deep aquifer typically ranges from 8 to 20 feet bgs. In a typical annual cycle, the deep-aquifer groundwater levels reach their maxima in the first quarter and their minima in the third quarter. During the wet season, the deep-aquifer water levels vary in elevation from about 3 to 4 feet across the PSC Tacoma Facility. During the dry season, the water levels drop approximately 2 feet. Except for a few outlier data that appear to be the result of measurement or recording errors, seasonal fluctuations in deep- aquifer water levels are highly correlated from well to well.

The results of the short-term monitoring events indicate that the fluctuations in pressure head in the deep aquifer generally exhibit the following characteristics:

- Considerably lower in amplitude than the long-term (e.g., annual) fluctuations
- Apparently uncorrelated with atmospheric-pressure fluctuations
- Positively correlated with the tide-induced water-level fluctuations at Commencement Bay (The correlation is highest between the deep-aquifer pressure and the bay water level about 4 to 6 hours earlier. The correlation is a decreasing function of the distance between the well and Blair Waterway.)

The 1999 short-term monitoring event specifically showed the water level variations measured at well CTMW-7 are highly correlated with those measured at well CTMW-9. At both wells, most of the water-level variation is associated with very smooth, almost periodic fluctuations over periods of about 25 hours or less. The amplitudes of these fluctuations were about 0.25 foot. The water-level fluctuations at wells CTMW-7 and CTMW-9 lag the tide-level fluctuations by approximately 6 hours.

2.3.4 Groundwater Recharge

Precipitation is the main natural source of groundwater recharge at the site. Groundwater can be recharged by artificial sources also, such as injection wells, surface impoundments, and leaking underground utilities (e.g., water-supply pipelines and sanitary and storm sewer pipelines).

Known artificial sources of recharge include stormwater swales such as those installed on the south end of the Stericycle property or the Hylebos Marsh. More recent stormwater management features installed at the TWAAFA site, such as those installed in the last year on the 1514 Taylor Way property and one planned for the Stericycle property have been designed to prevent infiltration, with impermeable liners at their base.

The stormwater system on the CleanCare property was a primary focus of the EPA's time critical removal action work in 2000. EPA reconfigured the system to prevent stormwater from running off the property or infiltrating in an uncontrolled manner. Documenting the current configuration and status of that system is a data gap for the TWAAFA site that will be addressed as part of the work conducted under this Work Plan.

Recharge at the site occurs primarily from infiltration by precipitation falling on permeable surfaces. Several major construction projects have occurred in the last year or are planned for completion on the TWAAFA site in 2018, paving and installing new buildings in several areas of the 1514 Taylor Way and Stericycle properties that were previously unpaved or partially unpaved. As part of the reporting of results of the data gaps investigation, an updated map of permeable and impermeable areas of the TWAAFA site will be developed. This information is expected to be necessary as part of remedial action planning that is presumed to include capping measures.

2.4 Conceptual Site Model

Previous investigations of the site parcels developed a generally agreed upon conceptual site model (CSM). Initially presented in the PSC RI, it was also referred to or reaffirmed in the 1514 Taylor Way RI (FS, 2006) and Interim Action Work Plan (FS, 2017) and the GeoEngineers Data Summary and Conceptual Site Model for Taylor Way and Alexander Avenue Fill Site (2008). This section summarizes that CSM. Affected media and how this model influences the contaminants present at the site and their distribution is discussed further in Section 4.

Groundwater in the fill sediments of the shallow aquifer is generally unconfined. Groundwater in the shallow aquifer is encountered at depths of less than one foot to greater than 10 feet. The saturated thickness of the aquifer typically ranges from two to 10 feet. Groundwater levels in this aquifer fluctuate several feet per year in response to seasonal variations in precipitation. The water levels in this aquifer are not influenced by short-term tidal fluctuations. Groundwater in the shallow aquifer is locally variable (likely dependent on the fill types present in different areas of the side), but routinely shows a flow pattern that is radially away from a mound in the center of the TWAAFA site, near the property boundary between the Stericycle and CleanCare properties.

The silt unit is a native sediment composed of tidal marsh and tidal flat deposits, appears to be laterally continuous beneath the site, and act as a confining layer. Within the silt unit, groundwater movement is assumed to be predominantly vertical and downward. Groundwater from the shallow aquifer flows down through the aquitard.

Deltaic sands of the Puyallup River underlie the silt unit. The sands are saturated and present throughout the Port of Tacoma/Puyallup River delta (deep aquifer). Silt layers are present within this deeper zone. The groundwater in this aquifer is semiconfined to confined. Groundwater levels in the deep aquifer are consistent with those of Commencement Bay, and small tidal influences on these groundwater levels have been observed.

Although the magnitude of the groundwater level changes that are due to the changing tides are small (generally less than 0.25 foot), these changes are sufficient to cause gradient reversals because the hydraulic gradient within this aquifer is relatively low. The flow direction in the deep aquifer was calculated to range from west to northeast during short-term monitoring in 2001. The changing flow direction during the short-term monitoring event is attributed to tidal effects. The flow directions during long-term monitoring (1991 to 2001) were primarily northeast or southwest and fluctuated in response to both seasonal and tidal influence.

Additional deeper water-bearing units are present in alluvial and glacial deposits underlying the deltaic sands (Hart Crowser, 1995). Wells screened in these deeper units are commonly flowing artesian wells. Thus, with increasing depth in the alluvial deposits, there is an upward vertical gradient that inhibits the downward movement of groundwater in the shallower aquifers. Regionally, the site is located within a groundwater discharge area.

While stratigraphy at the site is not known below depths of approximately 60 feet bgs, more extensive geological investigations for area sites have revealed the presence of multiple silt layers between the shallow and deep aquifers (Hart Crowser, 1995; Scherman, 2001). The likelihood of interconnection between the contaminated groundwater in the shallow and deep aquifers and the groundwater in the aquifers located at depths of over 400 feet bgs is small because of the likely presence of multiple clay aquitards in the alluvial and marine deposits of the Tacoma Tideflats.

The site is located between the Hylebos and Blair Waterways. The site is positioned nearly an equal distance between the two waterways, and the elongated mound observed in the shallow aquifer groundwater elevations may be part of a groundwater divide that controls the groundwater flow direction in the shallow aquifer.

Groundwater in the shallow aquifer is thought to flow through the silt aquitard and into the deep aquifer. The groundwater in this aquifer is considered to be in direct hydraulic communication with the Blair and Hylebos Waterways. Due to the tidal influence in this aquifer and potential seasonal changes in the direction of groundwater flow, the flow paths in the deep aquifer are not as well defined as in the shallow aquifer. However, the groundwater in the deep aquifer is expected to discharge into either the Blair or Hylebos Waterways. Given the regional upward vertical gradient in the Tideflats, groundwater in the deep aquifer is not expected to flow downward into other underlying aquifers.

2.4.1 Potential Receptors

Exposure pathway and potential receptors were evaluated as part of historical investigation of the parcels within the TWAAFA site. The PSC RI (2005) concluded that:

- There are no identified groundwater users in the site vicinity for the water in either the shallow or deep aquifers.

- Groundwater in the shallow and deep aquifers beneath the site is unlikely to be connected to deeper aquifers that may be a source of drinking water because of multiple aquitards that separate the aquifers and the regional upward vertical gradient.
- Based on the extensive regional impacts to groundwater quality in the Tideflats area and the hydraulic connection between the aquifers and the saline water of Commencement Bay, groundwater in both the shallow and deep aquifers can be classified as nonpotable.
- Groundwater in the shallow aquifer flows down into the deep aquifer and flows laterally toward the Hylebos and Blair Waterways. The water that moves toward the waterways either discharges directly to the waterways, or discharges as seeps during periods of low tide.
- Groundwater in the deep aquifer is in direct hydraulic connection with the Hylebos and Blair Waterways and discharges directly into the waterways or into Commencement Bay.

The remedial investigations performed at site parcels agreed that the primary receptor and pathway for onsite contaminants is to onsite industrial or temporary construction workers directly contacting or ingesting contaminated soil/fill; temporary construction workers contacting contaminated groundwater; and industrial or temporary construction workers breathing contaminated particulates in air or air impacted by migrating contaminated soil vapor.

The 1514 Taylor Way Feasibility Study (FS, 2006) concluded that the drinking water exposure route was not a complete pathway because shallow groundwater in the tideflats area is considered nonpotable based on the proximity and hydraulic connection with the brackish waters of Commencement Bay. This conclusion holds for the entirety of the TWAAFA site. Deeper aquifers are considered potable; however, as the approved FS stated (FS, 2006), strong upward gradients in deep aquifers indicate that contaminants are unlikely to be transported to deeper potable groundwater zones. Groundwater within those studied at the TWAAFA site are expected to instead discharge to surface water, which is therefore the highest beneficial use.

3.0 PREVIOUS REMEDIAL ACTIONS

A number of closure and remedial activities have been conducted at the TWAAFA site, including the following:

- Excavation and capping of former chemical and waste-oil treatment units on Stericycle property
- Letter tank farm and solidification unit closure on Stericycle property
- Excavation related to Solid Waste Management Units (SWMUs) 53, 54, and 55 (Stericycle property)
- LUST cleanup (1514 Taylor Way property)
- LNAPL removal from wells and piezometers (Stericycle property)
- LNAPL recovery trenches (Stericycle and Potter properties)
- EPA Time-Critical Removal Action (CleanCare property)
- City and EPA led removals (1205 Alexander Avenue and 1300 Taylor Way property)
- Capping of 1514 Taylor Way (Interim Action)
- Vapor intrusion engineering controls (1514 Taylor Way and Stericycle properties)

These activities are described below and locations are shown on Figure 19. These are the major actions identified in historical records; minor spills and subsequent cleanup and reporting documented at the site have not been included in this list. Available historical records from online databases and TWAAFA member archives were reviewed to build this summary.

3.1 Stericycle Property Parcel A

In September 1987, closure activities were initiated for the former chemical treatment unit on Parcel A of the Stericycle property. The asphalt and concrete surface was removed with a backhoe and surface soil was excavated to a depth of 24 inches in the area of former acid-treatment tanks, 8 to 30 inches in the area of former neutralized and alkaline material storage tanks, and 6 to 30 inches in a former off-loading and solidifying area. Soils beneath the chemical treatment area were excavated to depths of 6 to 36 inches below the former concrete and asphalt surface to the depth of the auto-fluff fill, using a track hoe. Analytical results from samples collected from the excavated material and the auto fluff just below the bottom of the excavation indicated that the excavated surface soils had the highest concentrations of chromium, while the auto fluff had elevated concentrations of cadmium, chromium, copper, zinc, and lead. The excavated area was subsequently filled with 874 cubic yards of Class A fill, compacted with a 10-ton roller vehicle, and then covered with a 6-mil PVC membrane. Twenty yards of Class A fill were placed over the membrane to anchor it in place (PSC, 2005).

Remedial activities were also conducted in 1987 on the former waste-oil treatment area of Parcel A. Tanks were decommissioned and dismantled. Approximately 1,300 cubic yards of oil-contaminated soil located in a 120 foot long by 75 foot wide pit were excavated to a depth of approximately 4 feet bgs (with one 25 by 25 foot area in the south east of the pit excavated 6 to 7 feet bgs) from beneath and adjacent to the former oil treatment facility. After soil removal, the base of the excavation was covered

with approximately 12 inches of clean sand. The excavation was then lined with a 40-mil HDPE membrane. The liner and cap seams were extrusion welded (PSC, 2005).

The entire Parcel A site (both the chemical treatment unit area and the oil treatment area) was then overlain with 234 cubic yards of clean topsoil and seeded with grass. Excavated soil was disposed of at a RCRA-approved, hazardous-waste landfill. The objective of the 1987 action was clean closure of the regulated waste units (SE/E, May 1988).

Samples were collected during the action, but generally for the purpose of evaluating differences between the excavated material and that of the underlying surface, not to verify that all contaminated soils were removed. As part of that effort, four test pits located on the west side of Stericycle property were excavated in September 1988 (SE/E, Jan 1989) to collect auto-fluff samples to test and compare to auto-fluff samples collected as part of the Parcel A closure work on the Stericycle property. Two auto-fluff samples were collected from each test pit and analyzed for total and extraction procedure (EP) toxicity metals and total and leachable cyanide. The sampling results were compared to the auto-fluff samples taken at the site as part of the Parcel A closure activities; the metals and cyanide concentrations were not statistically different between the background and closure areas (PSC, 2005).

VOCs were detected in these 1987 samples, including PCE and TCE (highest at soil sample location SEA-14), but no recent sampling has been conducted to confirm if VOC-contaminated soils remain in this area.

3.2 Stericycle Property Parcel B Letter Tank Farm and Solidification Unit

The former tank farm and solidification unit on the Stericycle property were decommissioned in two stages between late 1989 and early 1991. Tanks were emptied, decontaminated, dismantled, certified clean, and scrapped between May 1988 and Jan 1989. Soil samples were collected from below the asphalt containment surface in the fill material above the auto-fluff layer. The solidification unit was closed in October 1990 (PSC, 2005). Results of the closure soil samples were not included in the 2005 Stericycle RI.

3.3 Stericycle Property Solid Waste Management Units (SWMUs) 53, 54, and 55

A former solvent storage shed (SWMU 53) and waste paint shed (SWMU 54) were historically located on the western edge of the Stericycle property (PSC, 1999). The sheds were removed when Freeway Container Inc. left the Stericycle property. Five soil samples were collected from the SWMU 53/54 area in October 1999. The only constituents detected in the soil samples above screening levels at the time were inorganics - arsenic, copper, lead, and zinc (PSC, 2005). Results of the closure soil samples were included in the 2005 Stericycle RI and are provided in Appendix G.

Soil was excavated and stockpiled in the northwestern area of the Stericycle property during the historical construction of a containment pad. The piles contained lime waste and auto fluff and were identified as SWMU 55 (PSC, 1999). Part of the lime pile was removed for beneficial reuse as a raw material substitute between October and December 1994 from the Stericycle property. Stericycle removed more of the soil/lime/auto-fluff pile in the second quarter and third quarter of 1995. Remaining soil was sampled in October 1999. The remaining soil was removed by Stericycle in September and October 2002 (PSC, 2005). Results of the closure soil samples were included in the 2005 Stericycle RI and are provided in Appendix G.

3.4 1514 Taylor Way LUST Cleanup

A gasoline release from an UST on the 1514 Taylor Way property was reported to Ecology when the property was operated as AOL Express. The UST was removed in 1987. Sampling of soil, groundwater, and soil vapor were performed between 1990 and 1992. TPH, benzene, toluene, ethylbenzene, xylenes, and lead were identified as constituents of concern above screening levels in a localized area around the former UST (Landau, 2006).

In 1996, 65 tons of petroleum-impacted soil (approximately 45 cubic yards) were excavated and 6,500 gallons of petroleum-impacted groundwater were pumped from the excavation, treated, and discharged to the sanitary sewer. The excavation was backfilled with clean fill. In 1998, an additional 390 tons of soil (approximately 1,820 cubic yards) of soil were excavated from the area of the former UST and 10,000 gallons of potentially petroleum-impacted groundwater were pumped from the excavation, treated, and discharged to the sanitary sewer. Confirmation samples indicated that petroleum-impacted soils remained beneath the former AOL Express building (Landau, 2006).

Groundwater sampling was conducted in the area between 1998 and 1999. The former buildings were demolished and the site regraded, including destruction of several monitoring wells. In June 2000, Ecology issued a No Further Action determination for the UST petroleum release (Landau, 2006). Soil and groundwater data related to the historical UST cleanup were not included in the 2006 Phase I Report (Landau) or in the 2006 1514 Taylor Way RI Report (Floyd Snider). The exact location of the former UST and associated cleanup efforts were not mapped in the available historical documents or in Ecology online resources.

3.5 LNAPL Removal from Impacted Wells and Piezometers

LNAPL was historically measured in several on-site groundwater monitoring points. Accumulated LNAPL was removed from several on-site groundwater-monitoring points (CTMW-1, CTMW-6, CTMW-10, PZ-1, and PZ-3) in an effort to remove recoverable LNAPL. This LNAPL-removal effort was conducted approximately monthly from February 1995 through September 1997, but the total volume of LNAPL recovered from each point during this period was less than 5 gallons (PSC, 2005).

3.6 LNAPL-Recovery Trenches

Two interim measures were implemented in 1999 and 2000 by Stericycle to address the potential migration of LNAPL from the site. These measures consisted of the installation of two LNAPL recovery trenches.

In July 1999, a trench approximately 2 feet wide and 100 feet long was excavated to a depth of 6 feet in a north-south direction, adjacent to monitoring well CTMW-6 on the Stericycle property and perpendicular to groundwater flow, to capture LNAPL emanating from the former Parcel A area. Further excavation was done on the north end of the trench to a depth of 8 feet to allow for a collection sump. A 10-mil PVC/HDPE membrane was placed in the bottom of the trench. Five piezometers (TP-1 through TP-5) constructed of 2-inch-diameter, 0.20-inch-slot Schedule 40 PVC were set every 20 feet along the trench. A sump with an adjustable weir was installed at the north end of the excavation. The trench was then backfilled with large aggregate to grade level. Steel plates with holes precut for each piezometer were then placed over the backfilled trench, and a berm of sandbags was placed around the perimeter

of the steel plates to keep the excavation closed until paving commenced. Soil excavated from the trench was classified as nonregulated and was disposed of at a nonregulated landfill (PSC, 2005).

The July 1999 trench was operated intermittently from July to December 1999. During this period approximately 37,000 gallons of groundwater were removed from the trench, but no significant amount of LNAPL was detected. The subsurface LNAPL appeared to be relatively physically immobile and in a residual state above the water table. As a result of low LNAPL-recovery rates, operation of the 1999 LNAPL-recovery trench ceased in December 1999 (PSC, 2005).

This trench has been approved for closure by Stericycle as part of planned construction of a modular office building in this area of the site in 2019. Details of the planned trench abandonment were included in a memo finalized for Ecology in November, 2018 (DOF, 2018).

A second LNAPL interceptor trench (104 feet long, 3 feet wide, and 8 feet deep) containing four 4-inch piezometers (TP-6, TP-7, TP-9, and TP-10) and one 10-inch piezometer (TP-8) was installed in November 2000 on the Potter Property. The trench was excavated with a backhoe in two major sections, west of center and east of center. Starting from the center of the intended trench, the backhoe dug down to 8 feet bgs and gradually extended northwest towards the Stericycle Tacoma facility. An impervious 20-mil PVC liner was cut and placed approximately every 20 to 30 feet in the bottom of the trench and backfilled with 2 feet of 2- to 4-inch quarry rock. When the westward side of the trench was finished with the bottom liner in place, piezometers TP-6 and TP-7 were positioned. Another 20-mil PVC liner was placed on the downgradient wall of the trench from the ground surface to approximately 6 feet bgs. The trench was then backfilled to grade with 2- to 4-inch quarry rock. The westward end of the trench extended approximately 58 feet to almost the center of the easement between the Stericycle and Potter property. The eastern side of the trench was excavated and completed in the same way as the western side, with the exception of a 10-inch diameter piezometer that was installed in the center of the trench. The eastern end of the trench extended approximately 46 feet on the Potter property. The entire trench was covered with 7/8-inch steel plates and 3 inches of asphalt to prevent surface-water infiltration (PSC, 2005).

Observations made during excavation of the second trench indicated the LNAPL was present at the interface between the dredge fill and the debris fill, well above the water table. PSC summarized that the location of the LNAPL suggested that it migrated along the ground surface during Parcel A pond overflows in the 1970s and earlier. The surface migration of LNAPL may have been restricted by an elevated ground surface along Alexander Avenue. Measurable quantities of LNAPL have not been detected in this trench (PSC, 2005).

3.7 CleanCare Property EPA Time Critical Removal Action

CleanCare ceased operations at the CleanCare property in late 1999 and abandoned substantial quantities of hazardous waste at the property. In response, EPA conducted emergency removal actions in 1999 and 2000 EPA as part of a time-critical removal action at the CleanCare property after CleanCare shut down its business in bankruptcy and Ecology requested assistance from EPA. EPA transferred responsibility for the CleanCare facility to Ecology in September 2000 (GeoEngineers, 2008). Pierce County now owns the CleanCare property, having acquired ownership of the parcels involuntarily as a result of tax delinquency.

While a Removal Action Completion Report was not immediately available for review, several historical documents found in Ecology and online records provided a general summary of the work completed.

Ecology requested EPA assistance on December 3, 1999 to address "the hazardous wastes and hazardous substances being stored in an uncontrolled manner at the CleanCare site". EPA began its time-critical removal response action on December 17, 1999 and planned to complete those actions on September 30, 2000 (EPA, 2000a and EPA, 2000b).

EPA documented approximately 1,600,000 gallons of waste stored in drums, tanks, sumps, piping, and other containers:

- Tank Farm 1 contained approximately 685,000 gallons of waste halogenated solvent in four ASTs with visible evidence of a release of petroleum inside the earthen bottom of the secondary containment system, as well as evidence of spillage and tank foundation shifting.
- Tank Farm 2 contained approximately 136,340 gallons of hazardous substances stored in ten 20,000-gallon ASTs. There was petroleum inside the secondary containment system.
- Tank Farm 3 contained approximately 98,482 gallons of hazardous substances stored in eight 20,000-gallon ASTs. There was evidence of antifreeze- and petroleum-like contaminated water located inside the secondary containment.
- Tank Farm 4 contained approximately 29,150 gallons of hazardous substances stored in four 10,000 gallon ASTs. There was evidence of petroleum contamination on the surface of the water inside the secondary containment system.
- Tank Farm 5 contained approximately 20,000 gallons of wastewater stored in two 10,000-gallon ASTs. Both were approximately full when on December 15, 1999 it was noticed that the secondary containment was nearly full.
- Tank Farm 6 contained approximately 6,000 gallons of hazardous substances stored in two ASTs. There was evidence of petroleum staining near an oil water separator system and around one of the ASTs.
- Container Storage Pads 4A and 4B contained approximately 43,686 gallons of waste in 916 containers.
- Buildings contained additional various unused chemical products, vats with petroleum-like contaminated water/sludge, compressed gas cylinders, and hazardous substances in containers.
- Additional wastes were inventoried in various bins, concrete sumps and containment areas, temporary rental tanks, and trailers.

The containers were in poor condition and posed a potential threat if they should break or leak. The chemicals and wastes identified included regulated hazardous wastes, used oil, antifreeze, used solvents, paint wastes, and crushed oil filters (Earth Justice, 2018)

Major removal activities began in January 2000. All aboveground waste located in tanks, drums, containers, sumps, and secondary containment systems was removed from the CleanCare property. EPA planned to install an aboveground stormwater management system and asphalt cap over three areas of

the site that showed significant subsurface soil contamination (Tank Farm 1 area, area south of Tank Farm 2, and the area between Building 1 and Tank Farm 3) covering more than 26,000 square feet (EPA, 2000a and EPA, 2000b).

Because CleanCare's stormwater system was broken and contaminated, EPA installed an aboveground stormwater management system. Ecology agreed to take over the operation and maintenance of the stormwater system at the end of 2000 (Earth Justice, 2018). A lift station was required for pumping treated stormwater from CleanCare, and that system was vandalized and rendered inoperable shortly after it was constructed during the early 2000's, and subsequently stripped of recyclable metals (Hooton, 2018). Current information about the CleanCare property stormwater system components, integrity of the paving, and buildings and wells condition have not been located at this time; therefore, this is considered a significant data gap to be addressed with respect to subsurface contamination.

3.8 1205 Alexander Avenue and 1300 Taylor Way City and EPA Removals

According to a 2008 Phase I Environmental Site Assessment Report conducted for the Port of Tacoma (Floyd Snider, 2008):

> In 2003, an anonymous complaint was filed with Ecology that indicated fill was being deposited in the area when Zidell Ship Dismantling was in business in the Tacoma area. The anonymous caller indicated that they were hauling ship insulation from the Zidell Site to the Hylebos Marsh. They reported piles of debris containing asbestos, lead, brass, and copper approximately three feet deep. The fill was then covered with a foot of soil. Zidell Ship Dismantling discontinued operations in the 1970s. The caller also stated that Murrey's Disposal located at 70th and Fife Way hauled the debris.
>
> In response to the complaint, Tacoma Pierce County Health Department (TPCHD) completed a Site Hazard Assessment in March 2003. The Site Hazard Assessment (SHA) indicated that no samples were collected in the northwest corner of the property because the Hylebos Marsh was in the process of receiving fill consisting of petroleum impacted ballast from the city railroad. The City of Tacoma Public Utilities reported in the SHA that contaminated ballast were relocated across the street to the Tacoma Steam Plant property and used as a substrate in the pavement. The ballasts were reportedly contaminated with crankcase blowby oil at concentrations ranging from 300 to 400 ppm. The fill placed after 1985 was three feet thick and covered approximately two acres. The SHA stated that four soil samples were collected in the southern portion of the Hylebos Marsh and analyzed for VOCs, SVOCs, chlorinated pesticides, PCBs, priority pollutant metals, total phenols, and cyanide. Methylene chloride was detected in all four soil samples ranging from 0.82 to 0.97 ppm, greater than CULs. However, methylene chloride was also detected in QA/QC samples and therefore may likely be a laboratory contaminant. Results for other analytes were not reported in the SHA. Dan Alexanian at Ecology and Sharon Bell at TPCHD made the assumption that the groundwater was contaminated and that contamination was migrating onto the subject property from the east adjacent property, PSC and former Don Oline Landfill.
>
> In October 2002 the USEPA was contacted by a person who reported during the early 1970s they were a participant in dumping asbestos. In June 2003, USEPA Region 10 Superfund

> Technical Assessment and Response Team conducted a removal assessment to determine the extent of buried asbestos of three "Dump Sites," one of which is the Hylebos Marsh. USEPA excavated 12 test pits in the northwestern portion of the property where fill had been placed. In 9 of the 12 test pits no material other than soil were noted except an occasional small piece of wood. One small piece of pipe and three small pieces of foil, believed to be wrappings around pipe insulation were collected from two locations. The soil and foil did not have detectable concentrations of asbestos. The pipe material was transite, a mixture of concrete and asbestos.

The related EPA reports for this action have not been located at this time; therefore, this is considered a data gap to be addressed. Details regarding this action will be sought so that it may be included in the summary of interim actions conducted at the TWAAFA site, particularly since this action appears to address older reports related to dumping observed at the Hylebos Marsh portion of the TWAAFA site.

3.9 1514 Taylor Way Interim Action

In 2017, Avenue 55, LLC and the Port of Tacoma commenced work on an interim action on the 1514 Taylor Way property as agreed to with Ecology as part of a separate Agreed Order DE13921 and an approved Interim Action Work Plan (Floyd Snider, 2017). The interim action consists of placing 2 to 4 feet of clean fill to raise the grade elevation and capping the area with asphalt pavement and warehouse buildings during property redevelopment. The finished development includes two buildings totaling 440,000 square feet, geomembrane liners for stormwater features, and associated pavement covering approximately 90 percent of the 10-acre property, with less than 10 percent left pervious (due to City of Tacoma landscaping requirements). Storm water conveyance improvements also reduce infiltration, and the potential for leaching of contaminants in property soils to groundwater. Following completion of the development, institutional controls will be implemented at the parcels through a Restrictive Covenant (Floyd Snider, 2017). The Port of Tacoma is currently preparing the Interim Action Report, anticipated for submittal to Ecology in 2019.

3.10 Vapor Intrusion Engineering Controls

Vapor intrusion mitigation measures were installed as part of redevelopment on both 1514 Taylor Way and Stericycle properties.

3.10.1 1514 Taylor Way Vapor Intrusion Mitigation

The 1514 Taylor Way interim action conducted under Agreed Order DE13921 also included performance of a methane hazard assessment to evaluate the potential hazard to new buildings and structures at the property as a result of methane vapors; soil gas sampling; contingent design, installation, and testing of a methane and/or soil gas mitigation system (Vapor Mitigation System). Soil gas sampling was initially performed as part of the property redevelopment in 2018. Results of that sampling were reported to Ecology via a May 2018 email from FS to Ecology (FS, 2018a)

Sub-slab assessment was determined to be needed based on results from soil gas samples collected prior to building construction. Sub-slab sampling was performed in September and October 2018 to determine if further evaluation of indoor air quality was needed. Results of that sampling indicated that there is not a risk to indoor air to occupants for either building based on comparison to MTCA Method C screening values and modeling using the Johnson and Ettinger model where levels exceeded the MTCA C values. (FS, 2018b).

Prior to this sampling Avenue 55 elected to install passive vapor mitigation system in the four office nodes of the two redevelopment warehouses. Based on the sampling results Avenue 55 has recommended to Ecology that long term monitoring of the mitigation system or indoor air are not warranted (FS, 2018b). Avenue 55 and the Port of Tacoma are currently awaiting response from Ecology on this matter.

3.10.2 Stericycle Vapor Intrusion Mitigation

Stericycle has also has performed similar vapor mitigation design as part of planning and construction of new buildings, beginning investigation in 2016. Vapor mitigation was performed as part of the Lab Pack Building construction in 2017 and a vapor barrier has been designed for a new modular office building planned for construction in 2019.

Soil gas sampling completed in 2016 indicated levels of benzene above screening levels and concentrations of methane exceeding 50% at some locations in the footprint of the planned Lab Pack Building (AMEC, 2016). A vapor mitigation system (VMS) was planned in cooperation with Ecology and was commissioned in May 2017 as part of construction of the Lab Pack Building on the Stericycle property. The VMS was installed to prevent sub slab VOCs and methane from affecting indoor air quality into the overlying enclosed portions of the building. Per Ecology request, the VMS included passive and active mitigation. The passive mitigation was in the form of a 40 mil high-density polyethylene (HDPE) liner installed just below the concrete foundation to provide a barrier to gas transmission. The active mitigation is comprised of collection lines, a regenerative blower, and a methane detection system (Amec Foster Wheeler, 2018).

Stericycle has also included a vapor barrier in the design of a new modular office building foundation planned for construction in 2019 (DOF, 2018). The new office structure is slated to be 60 feet wide and 84 feet long and will sit on top of a concrete slab foundation. The design of the vapor barrier will mirror that of the vapor barrier installation at the Lab Pack Building (using a concrete slab over the vapor barrier sandwiched between geotextiles). This is also consistent with Ecology's preference to use construction techniques that were similar to the Lab Pack Building vapor barrier construction (as per Steve Teel's email on June 14, 2018 requesting the vapor barrier be changed from a 10 mm barrier to a 40 mil landfill style barrier).

In addition to the vapor barrier installation, Stericycle will conduct air sampling in the building's crawl space before the building is occupied. Two samples will be collected from within the crawl space, and one ambient air background sample will be collected near an upwind property line.

4.0 NATURE AND EXTENT OF SOIL AND GROUNDWATER CONTAMINATION

The nature and extent of contamination has been assessed in multiple documents for the individual properties making up the TWAAFA site. DOF compiled and reviewed available data in order to assess data gaps for the TWAAFA site. This section summarizes findings regarding soil, groundwater, and soil vapor contaminant investigation. The major investigations reviewed are summarized in Table 1.

Screening levels used in this evaluation were those developed in the Stericycle RI Report (Philip Services Corporation, 2005) and also applied in the 1514 Taylor Way RI (Floyd Snider, 2006). These screening levels were site-specific screening levels developed under MTCA in consideration of the conceptual model (non-potable groundwater and industrial/commercial use). After Ecology's review of the Draft Data Gaps Work Plan (DOF, 2017), Ecology requested that several screening levels be revised to default table values available in Ecology's CLARC tables (Ecology, 2015). It is recognized that default table values are commonly used to perform baseline site assessments and avoid calculating more involved site-specific values. Much of the effort to investigate the site has already been completed as part of the Stericycle and 1514 Taylor Way property RIs. In the case of the TWAAFA site, using default table values does not greatly alter the nature and extent findings of contamination at the site, since surface water protection values are often the most conservative screening levels driving protection. Therefore Ecology's requested changes to the screening levels have been implemented in this revised Plan.

The selective maps prepared for this plan are intended to provide an efficient summary presentation of overall contaminant presence for the contaminants most frequently and widely detected. The Stericycle RI (2005) and 2008 GeoEngineers TWAAFA investigation included a more abundant collection of maps that are included for reference in Appendix H to illustrate the comprehensive review and presentation previously prepared in relation to this site. The most widespread and commonly detected constituents are described in the following sections.

4.1 Soil

The Stericycle Feasibility Study Work Plan (Geomatrix, 2005) reported that many of the soil samples collected during the RI were actually landfilled waste materials, due to the presence of fill materials.

Historical data were available for review from these sources:

- Electronic database maintained by Stericycle for data generated during the RI and post-RI sampling events.
- Historical pre-RI reports for investigations conducted at the Stericycle site – these data were generally only available in hard copy (or PDF) format only.
- 1514 Taylor Way property RI report (included laboratory reports as part of the report appendices).
- Various CleanCare investigations with most data available in hard copy (or PDF) format only.
- Results of investigation performed in relation to a proposed Puget Sound Energy gas line that would run along Taylor Way (report provided by Ecology).

4.1.1 Total petroleum hydrocarbons (TPH)

TPH in both light and heavier ranges have been tested and detected in soils across the TWAAFA site. Historical data for gasoline, diesel, and oil range TPH were tabulated and mapped for the full TWAAFA site (Tables 11 through 15 and Figures 20 through 22).

The highest concentrations generally consist of heavy range TPH and were observed in soil underlying the southern part of the TWAAFA site and are likely to be associated with a former waste oil pond on Parcel A (the Stericycle parcel immediately south of the CleanCare property). Measurable LNAPL has been observed in groundwater monitoring wells at several locations near and south of Parcel A (see Figure 11).

Lighter gasoline-range TPH was observed farther north (on the CleanCare property) and south near the property boundary between Stericycle and the Potter property.

TPH was not detected at concentrations above the screening level on the 1205 Alexander Avenue and 1300 Taylor Way property.

4.1.2 VOCs

VOCs sampling and analysis in soils has occurred for many years at parcels within the TWAAFA site. Multiple VOCs were identified in historical investigation reports as being present in soil above screening levels. Historical data for benzene, toluene, PCE, and TCE were selected as representative for tabulation and mapping for the full TWAAFA site (Tables 11 through 15 and Figures 23 through 26). These compounds were generally the most frequently detected VOCs at the site and provide helpful visualization of where contaminants were present.

Benzene was detected in the central and central southern parts of the site on the CleanCare and former Stericycle Parcel A properties. Toluene was detected in similar areas, though only above the screening level at locations south of the CleanCare property.

The highest concentrations of PCE and TCE (greater than 100 mg/kg) were generally located in the center of the CleanCare property. Benzene, toluene, PCE, and TCE were not detected on the 1205 Alexander Avenue and 1300 Taylor Way property or the 1514 Taylor Way property.

4.1.3 Inorganics

Multiple heavy metals were identified in historical investigation reports as being present in soil above screening levels. Historical data for arsenic and lead were selected as representative for tabulation and mapping for the full TWAAFA site (Tables 11 through 15 and Figures 27 and 28). These two compounds were also reported in the 2008 Port of Tacoma investigation with the highest frequency of detection above screening levels.

The highest concentrations of arsenic were detected in the center of the site on the CleanCare property. Concentrations above the screening level were also detected surrounding this area on the Stericycle and 1514 Taylor Way properties.

Lead was more broadly detected at concentrations above the screening level than arsenic, with concentrations above the screening level present on all properties except the western Port of Tacoma undeveloped property and the southern Potter property. The highest concentrations were detected in

samples collected from the CleanCare and northern end of the Stericycle properties. Figure 28 differentiates soil concentrations that are above:

- Ecological-based value from MTCA Table 749-3 - 50 mg/kg
- Industrial direct contact based value from Ecology's 2015 Cleanup Levels and Risk Calculations (CLARC) - 1000 mg/kg
- Protection of groundwater (vadose zone) from CLARC – 3000 mg/kg

A much smaller subset of samples exceeded the groundwater protection value, primarily on CleanCare and immediately south on Stericycle, with a few locations farther west on Stericycle property. Several samples on the north and south end of the Stericycle property also exceeded the industrial based screening level. None of the samples on the 1205 Alexander Avenue and 1300 Taylor Way property or 1514 Taylor Way property exceeded the industrial based screening levels.

4.1.4 PCBs

The Stericycle Feasibility Study Work Plan reported that PCBs were detected in product (LNAPL) samples collected from the area near former Parcel A and in one auto fluff sample from location CTMW-6, which is immediately west of former Parcel A. For this Data Gaps Work Plan, historical data for PCBs were tabulated and mapped for the full TWAAFA site (Tables 11 through 15 and Figure 29). Only this central southern area of the TWAAFA site showed PCBs detected above the screening level.

Over 30 soil sample results were identified from the CleanCare part of the site. Only 2 of those samples were above 1 mg/kg, with a high of 7.3 mg/kg at SCO310 at 4 feet bgs. PCBs have not tested at as many locations on the 1514 Taylor Way or Hylebos Marsh parts of the site; however where they were (7 locations), results were below reporting limits. Over 20 soil sample results were identified from the Stericycle part of the site. PCBs were detected in 3 of those samples, with a high of 14.69 mg/kg in a sample collected at PZ-6 at 4 feet bgs.

4.1.5 Semi-Volatile Organic Compounds (SVOCs)

SVOCs have been less frequently detected above screening levels during past investigations. Contaminants that may be indicators of auto fluff and/or lime waste were reviewed in detail for this Data Gaps Work Plan in the historical data (Tables 11 through 15). Benzo(a)pyrene data were mapped since it has one of the lowest screening levels of all SVOCs considered in the past RIs (Figure 30). The only location where benzo(a)pyrene was detected above the screening level was at the north end of the Potter property in the central southern area of the TWAAFA site. Benzo(a)pyrene was not detected at concentrations above the screening level on any properties other than the Potter parcel.

Several other SVOCs were tabulated as part of this Revised plan including bis(2-ethylhexyl)phthalate, hexachlorobutadiene, butyl benzyl phthalate, and diethyl phthalate.

Bis(2-ethylhexyl)phthalate (also known as di-ethyl hexyl phthalate) was sporadically detected at the site, with a high of 370 mg/kg at sample location CCW-4C (the sample depth could not be determined). Most detections were much lower; the only results that exceeded the screening level were from samples on the CleanCare property.

Hexachlorobutadiene was only detected on the CleanCare property where it was detected in multiple samples, with a high of 250 mg/kg at sample location SCO205 from 4 feet bgs. It was tested in other portions of the TWAAFA site but not detected.

Butyl benzyl phthalate was sporadically detected at the site, with the most detections and highest concentrations found on the CleanCare property where it was at a high of 23 mg/kg at sample location CCW-4C (the sample depth could not be determined).

Diethyl phthalate was only detected in two samples at the site. The highest concentration was 0.0026 mg/kg, several orders of magnitude below the screening level, from a sample at B14 on the CleanCare property from a depth of 9 feet bgs.

Total cPAHs were not tabulated because data were not routinely reported in the historical reports for total cPAHs. This compound group will be further sampled and tested under this Work Plan to present a current indication of contaminant concentrations.

4.2 Groundwater

Based on historical reports and data reviewed, the most commonly detected and discussed groundwater constituents of concern were considered for evaluation in this Work Plan. The most recent data found for quarterly groundwater monitoring at the CleanCare property were from the period between July 2001 and March 2002, and then events performed concurrent to the investigation of 1514 Taylor Way in September 2005 and March 2006. These data were tabulated for selected compounds and assessed as part of this data gaps evaluation. Stericycle has conducted routine groundwater sampling for over a decade; the last 10 years (2006-2016) were used for data gaps evaluation and mapping. All direct push sampling data found for the TWAAFA site was used and included data collected between 1998 and 2005. Based on feedback from Ecology, earlier historical data was sought for inclusion in this revised plan; though for mapping purposes, the same 10 year period (2006-2016) was used for mapping wells that have been sampled for an extended period.

The review performed for this Data Gaps analysis found the following:

- A broad data set exists for shallow and deep groundwater wells that have been routinely monitored on the Stericycle and Potter properties for many years. These data have been maintained in a database and are easily searchable for evaluation and currently uploaded to Ecology's EIM database.
- Multiple sampling events have been conducted at the CleanCare property monitoring wells for shallow and deep wells; however data are only available in individual reports and not in an electronic database. The current status and condition of these wells is unknown, but it is assumed that most are accessible for future use.
- Several sampling events were conducted at shallow and deep wells present on the 1514 Taylor Way property with 2016 data available electronically through Ecology's EIM database. All of these wells were abandoned in July 2017 as part of redevelopment work.
- Several samples were collected along the northern boundary of the TWAAFA site, related to a proposed Puget Sound Energy gas line that would run along Taylor Way (report provided by Ecology).

Tables 16 through 21 present groundwater analytical results for the selected constituents of concern described below. The highest concentration of each constituent at a particular location, regardless of date, was used to produce the associated summary Figures 31 through 48. Additionally, one of the cross sections prepared for the site (C-C') was revised to include presentation of constituents detected in groundwater, as well as soil, along with fill and lithology information. This information is presented on Figure 49.

4.2.1 TPH

TPH in the light and heavy-range have both been detected widely across the TWAAFA site (Figures 31 to 34). In the shallow zone above the silt layer, gasoline has been detected at the highest concentrations in the center of the site on the CleanCare property and on Stericycle property near the boundary with CleanCare. Concentrations of gasoline range TPH in the deep zone appear to be much more limited and the only location where a concentration was above the screening level was on the CleanCare property, although only the upper portion of the deep aquifer has been sampled. Diesel range TPH is more widespread in groundwater, with detections above the screening level throughout shallow groundwater on the CleanCare, Stericycle, and Potter properties, and east of the TWAFFA site, as well as along the property boundary between Stericycle and the Port of Tacoma property on the west side of the site. Diesel concentrations in the deep zone appear to be similarly widespread.

While the highest detected concentrations of TPH have been widespread historically at the TWAAFA site, the trends in groundwater over time show declining trends. Note that many of the elevated concentrations shown in the figures are from direct push one-time investigation conducted over a decade ago. Figure 35 shows the trend over the last 10 years at the well with the most frequent detections at the Stericycle site, CTMW-18, located near the property boundary with CleanCare. Concentrations have been detected below the screening level in all samples collected since 2009 at that location.

The Stericycle RI Report (PSC, 2005) reported a review of the chromatogram profiles from different areas of the site and results of petroleum product evaluation performed as part of that RI. That assessment concluded (referenced tables and memorandum are included in Appendix I):

> Natural attenuation of the petroleum hydrocarbons at the site is indicated by the loss of light-end petroleum hydrocarbons. Low concentrations of gasoline components (benzene, toluene, ethylbenzene, and xylenes) were detected in soil-gas samples collected near the former waste-oil pond. The loss of light end petroleum hydrocarbons is further demonstrated by the low concentrations and infrequency at which the gasoline-range TPH is detected in soil and groundwater. Consequently, although direct evidence of biodegradation is not available, it can be assumed with confidence that it has been occurring in soil and groundwater at the facility.
>
> Diesel-range hydrocarbons typically encompass carbon ranges C10 through C24. Oil-range hydrocarbons typically encompass carbon ranges C20 to C32. Mobility decreases as compound weight increases. Two distinct products types were identified on site. A mixture of degraded diesel fuel and oil was observed in product and water samples collected from the area around Parcel A. Oil (and possibly some biogenics) was observed in soil and groundwater samples collected from the leased area, the pre-load area, and the City of Tacoma (1205 Alexander

Avenue and 1300 Taylor Way) property. The oil product straddles the carbon fraction ranges reported in the diesel and oil analytical methods and therefore is reported as both diesel-range and oil-range petroleum hydrocarbons.

LNAPL has been observed in the area around Parcel A, the southern part of the PSC Tacoma facility, and on the Potter Property. The product characterization analysis performed by the Manchester Laboratory and FBI indicated that the petroleum-based LNAPL collected from the area south of Parcel A is a mixture of diesel-range and oil-range hydrocarbons (see Table 9-4). Specific gravity data show that the product is lighter than water (specific gravity <1) and can be classified as an LNAPL (Table 10-7). Viscosity results indicate it is similar to light machine oil (Weast and Astle, 1981) (Table 10-8). Low concentrations of gasoline-range petroleum hydrocarbons were detected in LNAPL samples collected from wells CTMW-1, CTMW-6, and MW-1. The composition of each LNAPL sample varies depending on the area of the PSC Tacoma Facility where it was collected and the degree of weathering that has occurred. The lighter, more mobile compounds have been lost from the LNAPL (either to the atmosphere or groundwater), resulting in a shift to heavier compounds in the residual LNAPL observed in soil and groundwater. This shift indicates that natural attenuation has reduced petroleum hydrocarbon concentrations in LNAPL and groundwater.

While LNAPL may continue to contribute dissolved phase contamination to groundwater, this will be limited because LNAPL is located above the water table for most of the year. Furthermore, the dissolution rate from the LNAPL will likely decrease over time as the mixture is depleted of the more soluble constituents. Because of its viscosity and location above the water table, LNAPL is not likely to migrate substantially from its current location at the site.

The compounds found in oil-range TPH typically exhibit very low water solubilities and strong affinities for soil. Consequently, it is not expected that these compounds will migrate into off-site groundwater in the future. Although biodegradation rates for oil-range petroleum hydrocarbons are typically slow, biodegradation is expected to further reduce the diesel- and oil-range TPH concentrations at the site in the future.

The Stericycle Draft Feasibility Study Work Plan (Geomatrix, 2005) concluded that the more soluble or degradable fraction of TPH has been attenuated, as is indicated by low concentrations of light end petroleum hydrocarbons (e.g., benzene). The LNAPL at the site is reportedly viscous and contains very little soluble petroleum hydrocarbons, based on historical analysis and investigations performed. Additionally, high concentrations of methane in groundwater have been documented, indicative of anaerobic bacteria. Methane may also be due to decomposition of wood waste.

Of note, many of TPH analyses performed on site samples historically were prepared using the silica gel cleanup procedure (starting around 2002 formally at the Stericycle property wells). The majority of investigations established methods of analyses prior to Ecology's 2016 Guidance for Remediation of Petroleum Contaminated Sites which recommends split samples be collected to aid in evaluating the effects of silica gel cleanup methods. Table 18 includes results collected at Stericycle wells pre and post-2002 to facilitate review of this possible influence on results. Many of the higher concentration wells (CTMW-7, CTMW-9, CTMW-12, CTMW-13, CTMW-16, CTMW-21) do show a notable decrease in

concentration of diesel range TPH starting in 2002. Split sampling to further assess organic material bias that may be occurring at the site will be performed as part of the data gaps investigation.

4.2.2 VOCs

Benzene concentrations were assessed and followed patterns observed for gas-range TPH, with the highest concentrations present in the central area of the TWAAFA site (Figures 36 and 37). Detections above the screening level have been detected more broadly in the shallow groundwater than in deep, with none above the screening level on the 1514 Taylor Way or western Port of Tacoma properties. Data for toluene and ethylbenzene are also tabulated, though not included on a figure. These compounds were frequently detected where benzene was but exceeded screening levels less frequently.

PCE, TCE and vinyl chloride have only been detected above their screening levels in groundwater in the central area of the site on the CleanCare property, and only in shallow groundwater samples (Figures 38 through 43). Samples collected from surrounding area locations and the deep zone generally have shown concentrations below screening levels or were not detected. However only the uppermost portion of the deep aquifer has been sampled as part of historical investigations. Therefore, additional characterization of VOCs in the deep aquifer is proposed by depth-discrete sampling.

4.2.3 Inorganics

Arsenic and lead were broadly detected above screening levels at the TWAAFA site in both shallow and deep groundwater (Figures 44 through 47). Previous reports noted that much of the site data may be biased by turbidity in the total metals samples. The data reviewed for this data gaps investigation also showed substantial seasonality differences at wells where metals were consistently sampled and detected such as CTMW-17 and CTMW-18 on the Stericycle property (Figure 48). The trends indicate higher concentrations in the late summer/fall when water levels are low and lower concentrations in the winter when water levels are higher.

Many of the historic arsenic values detected at the site are in the range of a 2015 background study performed by Ecology, which found statewide average natural background values to range from 1.4 to 14.1 µg/L, with a value of 6.6 µg/L assigned to the Puget Sound Basin (Ecology, 2015b). Iron oxides containing arsenic can be dissolved in groundwater in the presence of total organic carbon, whether from naturally-occurring organic matter (as in the case of former wetlands) or from anthropogenic sources of organic carbon, such as releases of chlorinated compounds or TPH. In areas with high total organic carbon concentrations (whether natural or anthropogenic), background arsenic concentrations may appear elevated due to arsenic becoming more mobile in the resulting reducing conditions (Welch et al., 2000 and USGS, 2015).

4.2.4 PCBs

Historical investigations have not identified PCBs as a constituent of concern in groundwater, though they have been sporadically detected in soil, primarily in or near fill materials at the site. However more recently developed screening levels for PCBs are very low for water, and lower than historical sampling reporting limits generally achieved. Collecting new shallow groundwater samples for PCBs with lower reporting limits would add confidence to these earlier conclusions.

4.2.5 SVOCs

Review of historical data from the site indicates that cPAHs and other SVOCs were generally not detected or very low, though reporting limits were elevated in much of the older data (greater than 0.05 µg/L). Several SVOCs are included in the tabulated data included in this revised plan. Regarding SVOCs, the approved 2005 PSC RI Report concluded:

> Phthalate concentrations exceeded the screening levels in shallow and deep soil and groundwater samples collected from the Parcel A area and are associated in almost all cases with locations known to be impacted by auto fluff. Concentrations were less than the screening levels at all other on-site and off-site locations. Each of these compounds is expected to exhibit very low mobility in the environment based on low water solubilities and strong affinities for soil. Each of these compounds is also likely to biodegrade under both aerobic and anaerobic conditions. It is not expected, therefore, that off-site migration of these chemicals will occur. The three other SVOCs were detected at low frequencies, biodegrade readily, and are not expected to migrate off site.

The SVOC 1,4-dioxane has been detected in several wells on the Stericycle property. The compound was not identified in the Stericycle RI as a constituent of interest and therefore a screening level was not established in the RI for 1,4-dioxane, but the current MTCA Method B groundwater screening level applied in routine reporting is 0.438 µg/L, based on drinking water protection. Results have ranged from non-detect to 87 µg/L in data collected over the past 10 years. The highest concentrations have been detected in deep well CTMW-9 located on the southern half of the Stericycle parcel. Concentrations at CTMW-9 have ranged from 42 to 87 µg/L. Compounds associated with DNAPL compounds may concentrate at lower portions of an aquifer if they are present at concentrations that may contribute to diffusion of dissolved solvents from more transmissive zones to low-permeability zones. Within low-permeability saturated zones, contaminants may be stored and slowly diffuse back into groundwater over time.

Total cPAHs were not tabulated because data were not routinely reported in the historical reports for total cPAHs. This is a compound group anticipated to be further tested as part of the data gaps samples to be collected and will be reported for those new samples and present a current snapshot for concentrations.

4.3 Soil Vapor

A soil-gas survey was conducted by Stericycle (Burlington Environmental at the time) on October 21, 1993. The survey focused on the southern and southwestern parts of the Stericycle property. The primary purpose of the soil gas survey was to assess the extent of LNAPL that was detected in wells CTMW-6, CTMW-10, and CTMW-1. Soil gas samples were collected in the interval one to two feet above the water table at 18 locations. Most samples were analyzed for BTEX using a RECON gas chromatogrpah and modified EPA Method 8240. Samples were also collected in Tedlar bags and tested by Method 8260 (PSC, 1999). Sample locations and results are included in Appendix J. Detected compounds included 1,1-dichloroethane, benzene, dichlorodifluoromethane, ethylbenzene, m,p, and o-xylene, and toluene. Several of these VOC concentrations would be above current Ecology sub-slab soil vapor screening levels and there were elevated reporting limits for many compounds that were not detected. These results are part of the broad historical evaluation of the site and contribute to the

identifying the footprint of contaminated fill material presence at the site; however these results are now over 25 years old and do not necessarily represent current conditions in soil vapor. More recent evaluation of soil vapor conditions have been conducted as part of construction planning and are anticipated to be included in planning for all future above ground structures where a risk of vapor intrusion may exist.

In addition to BTEX compounds, degrading wood waste and the lime waste impacted with PCE and TCE have been identified at the site as possible sources to the vapor risk pathway. Two soil vapor studies have been conducted within the TWAAFA site– one on Stericycle property in 2016 and one on the 1514 Taylor Way property in 2016-17. Results of these studies are summarized in Table 22.

Four soil vapor samples were collected in April 2016 in the central north area of the Stericycle property where historical data indicate lime and wood waste are present. Results showed high levels of methane, and minor concentrations of VOCs, with benzene being the only VOC detected above MTCA Method C industrial screening levels, though some constituents had elevated reporting limits. Stericycle installed mitigation in the building constructed in the area of soil vapor sampling in the form of an active depressurization system in 2017. Eight soil vapor samples were collected in December 2016 on the 1514 Taylor Way property. This was a smaller set of samples than initially planned due to high water table conditions at the time of sampling. Methane vapor concentrations on the 1514 Taylor Way property were much lower than those measured on the Stericycle property. Dissolved methane was also tested in shallow groundwater on the 1514 Taylor Way property and found to be in the 0.17 to 14.6 mg/L range. That range is similar to groundwater concentrations measured on the Stericycle property between 2009 and 2012 (ranging from not detected to 15 mg/L in samples from monitoring wells). Methane has not been tested in groundwater as part of Stericycle's monitoring program since 2012.

5.0 DATA GAPS AND PROPOSED ADDITIONAL WORK

The information reviewed in the previous sections was used to identify data gaps in collaboration with Ecology that will satisfy the requirements of a Remedial Investigation under the Model Toxics Control Act (MTCA). The RI must "adequately characterize the site for the purpose of developing and evaluating cleanup action alternatives" and include information described in WAC 173-340-350(7). The following subsections present the data gaps identified for the TWAAFA site and tasks to fill these data gaps. The locations of proposed sampling points agreed to with Ecology via email communications in fall 2018 (Ecology, 2018) are shown in Figures 50 and 51. Table 23 summarizes planned well construction, sample collection, and other tasks. Specific methods for field and analytical tasks are included in the attached Sampling and Analysis Plan (Appendix K).

5.1 Informational Data Gaps

Most of the information required for an RI exists for the TWAAFA site, but some site characteristics require re-evaluation to design a cleanup remedy and perform interim and long term monitoring. These data gaps include:

- **Aboveground Site Conditions Documentation** – Due to construction activities completed since the major RI reports, an updated site conditions map and description is warranted and will support executing further soil and groundwater data collection and assessing potential risk in existing buildings due to possible soil vapor contamination as well as inform feasibility study and remedy planning.

  Proposed Tasks

  - *Mapping of above ground structures, paved areas, unpaved areas of infiltration, stormwater flow patterns and control features, and general topography should be completed. In cooperation with Ecology, an access agreement will be sought from Pierce County to facilitate access to the CleanCare portion of the site.*
  - *A document will be prepared summarizing results that includes a map and recommendations for approach to assessing potential vapor intrusion risk in existing buildings. It will be submitted to Ecology for review.*

- **Current Well Usability** – Some wells have not been used or sampled in years and it is unknown if they are suitable for sampling groundwater at this time or should be abandoned.

  Proposed Tasks

  - *Field evaluation of existing wells on the site to determine which wells remain in good condition, which remain but require rehabilitation, and which should be recommended for abandonment (or have already been abandoned). Ponded stormwater may require management in order to assess some wells on the CleanCare property. The field team will coordinate with Ecology and Pierce County prior to performing the inspection in order to address ponded stormwater that could prevent inspection and future sampling.*
  - *A document will be prepared for submittal to Ecology that summarizes findings and provides recommendations such as:*

- *Repair of surface monuments/gaskets/caps/locks to prevent stormwater intrusion.*
- *Redevelopment and/or repair/replacement of wells slated for future groundwater monitoring, based on the field evaluation.*
- *Abandonment of wells in poor condition.*
- *Review of survey information for wells slated to be used for future monitoring to evaluate any changes due to construction or use of datum other than that specified for use in Ecology's EIM. An updated survey would be performed if review determines data is not current. Note – existing survey information will be translated to NAVD88 vertical datum and new surveys will be performed using NAVD88 to facilitate acceptance into EIM.*

- **Current Groundwater Flow Patterns** – With development of portions of the site over the last few years, it is anticipated that shallow groundwater elevations may slightly change from historical patterns. The addition of several new wells and incorporation of wells across the full TWAAFA site will facilitate review of new patterns and/or confirm previous groundwater flow assumptions for the site.

  Proposed Task

  - *Groundwater elevations measurement and mapping as part of future groundwater monitoring events and related data reporting. New and replacement shallow and deep wells will be installed at the site (as shown in Figures 50 and 51) and a broader network of wells measured than historically conducted.*

5.2 Contaminant Characterization Data Gaps

Past investigations have produced an extensive dataset regarding subsurface conditions at the TWAAFA site that provide sufficient information to characterize the site with regards to soil, fill types and distribution, hydrogeology, and contaminant sources. The primary gaps in information that have been identified based on what is now understood about the collective nature and extent of contamination at the TWAAFA site relate to recent site-wide groundwater conditions, groundwater characterization at depth, and lack of recent documentation for buildings, wells, and site conditions (primarily on the CleanCare property).

- **1205 Alexander Avenue and 1300 Taylor Way Characterization** – Historically, investigation was less densely performed on the western Port of Tacoma property (1205 Alexander Avenue and 1300 Taylor Way). This parcel is identified for additional evaluation because historical documents indicated several reported fill and waste disposal areas on this property, as described in Section 2. Additionally, historical investigation along the parcel boundary between Stericycle and the western Port of Tacoma property has shown that various fill materials are present on the Stericycle side of the parcel line and at several locations near the parcel boundary on the Port parcel. The lime waste identified in one boring on the Port parcel was not specifically identified as lime waste impacted with PCE or TCE and descriptions were not conclusive regarding the presence or absence of auto fluff. There are also several wells which Ecology identified as being improperly screened to monitor the intended deep aquifer.

Proposed Tasks – these field tasks were completed in 2019

- *Completion of 4 direct push borings to investigate presence and type of fill materials in this area (Figure 50). Borings would be visually logged continuously and completed through the fill or to the water table (whichever is deeper), with field screening via a photoionization detector for VOCs. Soil and groundwater samples will be collected for laboratory analyses.*
- *Completion of 2 deep aquifer borings for groundwater sampling and subsequent well installation near locations SB-1 and SB-4 (Figure 51) to improve the coverage of deep aquifer groundwater elevation data.*
- *Abandonment of wells that may be screened in the silt layer – SB-1, SB-3, and SB-4.*

- **Stericycle Former Parcel A Assessment** – Soil excavation and capping was performed in the late 1980s in the former Parcel A area of the Stericycle property (see Section 3). VOCs were detected in some of the soil samples collected as part of that closure, including PCE and TCE (highest at soil sample location SEA-14), but no recent sampling has been conducted to confirm if VOC-contaminated soils remain in this area.

  Proposed Tasks

  - *Completion of 1 direct push or hand auger sample in the area of the former sample SEA-14 (approximately 4.7 feet bgs) logged to the top of the silt layer to investigate presence and type of fill materials in this area and current residual VOC soil concentrations (Figure 50).*

- **Monitoring Well Network** – Additional or replacement wells will support developing a current assessment of groundwater concentrations and flow patterns across the full TWAAFA site. Specifically additional wells and monitoring are warranted as follows.

  The RI work conducted on the 1514 Taylor Way property allows for evaluation of water levels and groundwater chemistry across the TWAAFA site; however based on the site-wide assessment completed, replacement of a subset of monitoring wells on the western side of the 1514 Taylor Way property is warranted. The primary constituents of concern are thought to be present in groundwater underlying the CleanCare property situated immediately upgradient of the 1514 Taylor Way property based on site-wide groundwater elevation mapping. Groundwater monitoring on the 1514 Taylor Way property showed relatively low groundwater concentrations of constituents of concern, as compared to samples collected in other parts of the TWAAFA site, but no current monitoring wells are available to collect newer data downgradient of the CleanCare property on the 1514 Taylor Way part of the TWAAFA site.

  Existing wells at the TWAAFA site are only screened as deep as the shallowest portion of the deep aquifer; additional characterization of the deep aquifer at greater depths will allow for a more robust understanding of both the lateral and vertical extent of groundwater contamination at the site with particular regard to DNAPL-related compounds and their distribution within more and less transmissive zones of the aquifer.

For the CleanCare property, given the age of data available from CleanCare monitoring wells, a step-wise approach that involves first resampling the existing wells before installing new wells downgradient is proposed. If concentrations have reduced to levels below screening levels, additional wells downgradient may not be warranted.

Proposed Tasks

- *Installation of 3 new shallow wells along the northern edge of the 1514 Taylor Way property (Figure 50).*
- *Completion of 5 deep aquifer borings on 1514 Taylor Way, Stericycle and CleanCare properties for groundwater collection at multiple depths with possible deep wells to be installed at each location pending receipt of results and discussion with Ecology (Figure 51). See methodology described in Section 6.*
- *Replacement of several wells on the western Port of Tacoma property as described in the Hylebos Marsh section above.*
- *Additional wells may be necessary if requested by Ecology to fill remaining data gaps.*

- **Recent Groundwater Data –** No recent data exist for the CleanCare area of the site, where previous investigations documented some of the highest concentrations of constituents of concern in groundwater. Additional groundwater monitoring will provide data to confirm groundwater flow patterns in this area, review seasonal trends in groundwater chemistry under current site conditions, and verify current levels of contamination present in an area of the site where concentrations of contaminants were historically higher than other areas of the TWAAFA site.

  There are constituents of interest that have been historically sampled but often reporting limits were higher in some of the older data. New data will allow for lower reporting limits that were not achievable in the past.

  New TWAAFA site groundwater data will also aid in assessing contributing factors such as turbidity, geochemistry effects on natural conditions (particularly metals), and distinguishing petroleum from non-petroleum compounds (silica gel influence on results).

  Proposed Tasks

  - *Quarterly groundwater monitoring of the TWAAFA groundwater monitoring well network described in the attached TWAAFA Site Groundwater Monitoring Plan (Appendix L), for an initial period of one year. Sampling would be coordinated with Stericycle's ongoing semi-annual water level measurements and annual groundwater monitoring program. The TWAAFA Site Groundwater Monitoring Plan is modelled after the methods currently being used for the Steircycle property monitoring program.*
  - *Split sampling to further assess organic material bias that may be occurring at the site will be performed as part of the data gaps investigation. Reporting of samples analyzed without silica gel cleanup procedures is required by Ecology, though additional analysis of samples with silica gel cleanup procedures and/or total and dissolved organic carbon may be performed. Review of chromatograms, calculations and numerical estimations of*

variability or laboratory measurements based on laboratory QA/QC, and supporting evidence and criteria for use of the method, will be conducted.

- **Indoor Air Assessment** – Based on the vapor studies conducted to date, there is a risk for migration of soil vapor to be a concern at the site. Since the vapor pathway is heavily influenced by above ground structures, as well as the rate of degradation, vapor intrusion is a topic that will require ongoing management at the TWAAFA site and consideration as interim actions when development occurs and as part of final cleanup and institutional controls. This is essentially how the site is already being managed on the 1514 Taylor Way property and Stericycle property where the soil vapor pathway was evaluated for buildings planned for construction in the last two years. Mapping of lime waste and wood fill will aid in identifying areas that may warrant evaluation. In addition, the PLP group worked with Ecology in 2020 to develop a vapor intrusion evaluation process to be followed for the CleanCare property.

  Under Ecology's Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action five steps are outlined to address the potential for vapor intrusion, acknowledging that not all steps are warranted at all sites.

  Preliminary Assessment
  Tier I Assessment
  Tier II Assessment
  Mitigation
  Cleanup

  As stated in the guidance "*the goal of the preliminary assessment is to quickly identify whether the potential for vapor intrusion exists at a specific site, and if it does, which buildings may be affected*." Based on the information gathered in preparation of this Data Gaps Investigation Work Plan, the preliminary assessment at the CleanCare property indicates that concentrations, at least historically, were at levels that indicate the potential exists for vapor intrusion at the CleanCare property. Following the guidance "*If the preliminary assessment concludes that there are toxic, volatile hazardous substances at the site and the contamination is either a) close to one or more currently occupied buildings, or b) close to an area where a building could be constructed in the future, investigators will need to continue to assess the pathway*." The next step is typically a Tier I Assessment.

  Ecology and PLP group members conducted a February 2020 CleanCare property site walk that allowed the technical team to begin evaluating the second part of this preliminary assessment with regards to existing buildings. While the future use of the existing buildings is uncertain, the potential for future buildings to be constructed certainly exists. The RI must therefore consider the vapor intrusion pathway.

  The Tier I assessment generally involves measuring contaminant concentrations in groundwater and/or soil gas areas where buildings exist (or could exist in the future) and considers the nature and extent of contaminants that pose or may pose a risk for localized vapor intrusion. This objective is consistent with shallow groundwater data collection to be performed under the Data Gaps Work Plan. This data will be screened against levels protective of indoor air.

The Tier 2 assessment stage is intended to answer the question "i*s volatile contamination in the subsurface unacceptably contaminating this particular building's indoor air*". Ecology's guidance for this work states: "*When Tier I screening fails to lead to a VI assessment off-ramp, the next steps are dictated by whether the building of concern currently exists. If no buildings currently exist, the assessment phase ends with completion of Tier I. A Tier II assessment cannot be performed unless (or until) there is a building present."*

None of the buildings that currently exist at the CleanCare property are in use, and are unlikely to be used in their current condition. The February 2020 site walk confirmed that several of the buildings appear structurally sound and therefore the property owner is not planning immediately demolish of the structures. However, utilities have been severed and stripped, windows and doors are broken or missing, interior walls and finished surfaces are in poor and/or damaged condition, and abundant debris is present inside some areas. Thus, future use of the existing structures is anticipated to require at least some level of building modification. During the February 2020 site walk the County engineer explained that the cost of improvements drives requirements to comply with the current building code. The costs to re-wire and provide electrical service alone are likely to exceed that threshold. Among other things, current code requirements would require insulation, fire protection systems and more. Ultimately a future property user is likely to deem it most economical to demolish existing structures and rebuild.

Given that the most likely future uses will require building demolition or heavy modification and preliminary data review indicate a Tier I assessment would confirm a need for a Tier 2 evaluation of building use, future structure use will require consideration of the vapor intrusion pathway. Based on the Data Gaps work completed to date, the current conceptual model of the site assumes that the vapor intrusion pathway is complete at the CleanCare property for any buildings that may be used or constructed. Therefore vapor intrusion should be considered in the Feasibility Study as part of cleanup planning, or sooner, if development is imminent by the County or another party. Risk could be assessed in cooperation with the entity planning development to more appropriately design assessment of exposure for the planned use.

Proposed Tasks

- *Screen newly collected groundwater data to vapor intrusion-based screening levels.*
- *Perform a soil vapor investigation in accordance with the Soil Vapor Sampling and Analysis Plan provided as Appendix M.*
- *Perform a vapor intrusion assessment for the full site, consistent with Ecology's 2018 updated Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, that incorporates results of the Above Ground Site Conditions Documentation data gap described in the previous section.*
- *It is anticipated that sampling as part of a Tier 2 assessment will be necessary in select portions of the site (as has been conducted on portions of the site already) and would include collection of sub-slab, indoor air, ambient air, and/or methane samples from selected Site buildings not previously evaluated for vapor intrusion risk. Differential pressure measurements would be collected as part of methane investigation. Sampling*

will also include the assessment of short-term TCE exposure concentrations per recent revisions to Ecology guidance regarding this exposure concern.

- *A TWAAFA Site Indoor Air Assessment Protocol will be prepared to be used at the site going forward as new site development is planned and completed. Updating the fill map for the full TWAAFA site, as was completed in this Work Plan, and performing the Above Ground Site Conditions Documentation task will aid in developing this Protocol. The Indoor Air Assessment Protocol will provide predictability in approach for site owners and enable remedial designers to consistently investigate and address the vapor pathway issue as development changes at the site.*

  The Indoor Air Assessment Protocol would be a standalone document that would be incorporated into an Institutional Control Plan if the final remedy for the site leaves contamination in place that could cause a possible vapor mitigation issue. It will follow the current version of ASTM E2993-16, Standard Guide for Evaluating Potential Hazard as a Result of Methane in the Vadose Zone.

6.0 METHODS AND SCHEDULE

The methods for performing the tasks described in Section 5 are described in the attached Groundwater Monitoring Plan (Appendix L) and RI Sampling and Analysis Plan (Appendix K &M). Tasks described in this plan will be conducted upon approval of this plan except where phasing is necessary in order to complete, as is the case with further deep aquifer investigation. Deep aquifer investigation will be performed prior to selecting well screen depths for new deep aquifer wells in coordination with Ecology. The general approach to deep aquifer sampling locations will be:

- Use conductor cased drilling methods to sample below the silt layer at each planned deep aquifer boring to a depth of approximately 60 feet bgs.
- Collect depth-discrete groundwater samples in higher transmissive water-bearing units at approximately 10-foot intervals and/or at major lithology changes. It is estimated that a minimum of three-to-four depth-discrete groundwater samples will be collected at each location.
- Collect soil samples from fine-grained units for possible VOCs analysis. The purpose of this would be to verify if these units are storing and releasing contaminants via diffusion unto adjacent higher transmissive portions of the aquifer.
- Consult with Ecology regarding final proposed well completion location, depths, and screen intervals.

Groundwater monitoring will also be part of a second stage of implementation and will commence after well inspections, shallow direct push sampling, and new groundwater well construction is complete.

The schedule for implementing this Data Gaps Work Plan will be based on the approval of this Work Plan and timing of finalization of the Agreed Order. Work will commence within 30 days of signing the Agreed Order, to allow for the parties represented to collectively determine the approach to implementation and project management for the next stage of work. The Port of Tacoma must have the

appropriate time to schedule review of the final work plans by the Port Commission in order to obtain approval of funding to perform required work for the TWAAFA site. The PLP Group will notify Ecology if these approvals will interfere with the schedule as outlined in this Plan.

The anticipated schedule for implementation and reporting is listed below. Any revisions to this schedule will be approved by Ecology in writing. Due to the variety of tasks to be performed this schedule should be considered approximate.

- Initial Field Tasks – to be completed upon approval of this work plan and signing of the Agreed Order, estimated 2020. The field inspection will be performed within 30 days of the effective date of the Agreed Order.
    - Mapping of above ground structures, paving, stormwater flow and control, and general topography.
    - Existing well inspection.
    - Soil and shallow groundwater sampling from temporary borings (TWA-SB1 through TWA-SB5 – as field conditions allow; drilling may require drier conditions to access locations).
    - Deep groundwater multi-depth sampling (TWA-5 through TWA-10 – as field conditions allow; drilling may require drier conditions to access locations.
    - Soil vapor investigation per Appendix M– as field conditions allow; may require drier conditions to access locations.
- Initial Reporting Tasks
    - Aboveground Site Conditions memorandum – to be completed within 30 days of completing the field inspection.
    - Existing Groundwater Monitoring Network Evaluation and Recommendations memo – to be completed within 30 days of completing the field inspection.
    - Soil Vapor Intrusion Status and Recommendations memorandum – to be submitted within 60 days of completing the field inspection
    - Soil and Groundwater Data Report summarizing results of soil and groundwater sampling performed as part of initial field tasks – to be completed within 60 days of receipt of validated data.
- Stage 2 Field Tasks – The task schedule for the tasks described in the sub-bullets below will be provided in the Existing Groundwater Monitoring Network Evaluation and Recommendations memo and/or Soil and Groundwater Data Report.
    - Abandoning of wells SB-1, SB-3, SB-4, and others identified for abandonment in the Existing Groundwater Monitoring Network Evaluation and Recommendations memo.
    - Repair or redevelopment of wells identified for such rehabilitation in the Existing Groundwater Monitoring Network Evaluation and Recommendations memo.

  - Installation of new wells TWA-1 through TWA-3 and new and replacement wells identified in the Existing Groundwater Monitoring Network Evaluation and Recommendations memo and Soil and Groundwater Data Report.
  - Survey of new wells (and rehabilitated wells as necessary).

- Stage 2 Reporting Tasks
  - Groundwater Monitoring Network Revision Summary memo to document well construction, rehabilitation, and abandonment activities conducted as part of Stage 2 Field Tasks – to be completed 30 days after Stage 2 field tasks are completed.
  - Revised Groundwater Monitoring Plan (to include details of revised monitoring network) – to be completed 60 days after Stage 2 field tasks are completed.

- Quarterly Groundwater Monitoring
  - Minimum four quarterly sampling and groundwater elevation measurement events to be conducted – commencing after Stage 2 Field tasks are complete, estimated late 2019.
  - Quarterly Groundwater Data Analysis Reports – to be completed within 30 days of receiving the final round of data from the laboratory. The reports shall summarize the data collected and activities performed with respect to the groundwater monitoring program.

- EIM Update
  - Available sampling data collected after August 1, 2005 from the TWAAFA site will be uploaded into Ecology's EIM database.

  Indoor Air Assessment Protocol – to be completed within 60 days after the Groundwater Monitoring Network Revision Summary memo is completed.

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8.0 CLOSING

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Tables

TABLE 1
HISTORICAL INVESTIGATIONS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Investigation	Parcels Evaluated	Author	Date
Memo Re: Lilyblad Pond and Related Fill, Tacoma	CleanCare	Department of Ecology	3/5/1982
Occidental Chemical Corporation, Tacoma Off-Plant Disposal Sites, Groundwater Investigation, Alexander Avenue, Daupin, Marine View Drive, Petarcik	Alexander Ave	Conestoga-Rovers & Associates	2/1/1984
Letter to Rick Pierce, Department of Ecology Re: sampling of lime waste and auto fluff prior to plant construction	Stericycle	Chemical Processors, Inc.	8/1/1985
Preliminary Nitric Acid Spill Residual Impact Evaluation	Poligen (Parcel A Stericycle)	Hart Crowser	3/19/1986
Preliminary Assessment Past Practives in the Vicinity of the Poligen Facility	Poligen (Parcel A Stericycle)	Hart Crowser	5/1/1986
Northwest Processing Well Monitoring	CleanCare (Accurate Packaging, Parcel A/Lindal)	Applied Geotechnology Inc	1987
Solidus-Chempro Site, Boring/Well Logs C-1, C-2, and C-3	Stericycle	Applied Geotechnology Inc	1/26/1987
Phase 1 Hydrogeological Investigation Parcel A	Stericycle	Sweet, Edwards & Associates, Inc.	11/1/1987
Phase I Hydrogeological Investigation Parcel B and C	Stericycle	Sweet, Edwards & Associates, Inc.	February 1988
Phase II Hydrogeolocial Investigation Parcel A	Stericycle	Sweet, Edwards & Associates, Inc.	April 1988
Parcel A Final Closure Activities	Stericycle	Sweet, Edwards & Associates, Inc.	5/18/1988
Chemical Processors, Inc. Tacoma Facility Proposal for Monitoring, Analyses, and Testing	Stericycle	Sweet, Edwards & Associates, Inc.	12/29/1988
Parcel A Closure Auto Fluff Testing and Analysis	Stericycle	Sweet, Edwards & Associates, Inc.	January 1989
Statistical Evaluation Parcel A Closure	Stericycle	Sweet, Edwards & Associates, Inc.	May 1989
RCRA Facility Assessment PR/VSI Report, Chemical Processors, Northwest Processing, Parcel A	Stericycle & CleanCare	SAIC	February 1990
Preliminary Site Assessment Proposed Congeneration Plant Site	Hylebos Marsh	Dames and Moore	8/20/1990
Geotechnical Engineering Study, Proposed Storage Facility	Parcel A	Applied Geotechnology Inc	9/11/1990
Tacoma Cogeneration Project Phase 2 Site Assessment	Hylebos Marsh	Woodward-Clyde	May 1991

TABLE 1
HISTORICAL INVESTIGATIONS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Investigation	Parcels Evaluated	Author	Date
Letter to Mr. David Bartus, U.S. EPA, Region 10. CleanCare response to EPA letters dated March 26, 1992. Mentions plan to abandon wells A-1, L-2, and L-4.	CleanCare	CleanCare Corporation	April 1992
Letter to Mr. David Bartus, U.S. EPA, Region 10. Submittal of results of water level measurements conducted at Northwest Processing.	CleanCare	CleanCare Corporation	6/23/92
RCRA Facility Investigation Work Plan, CleanCare Corporation	CleanCare	ERC	7/9/1993
Technical Memorandum Preliminary Soil Analysis from CleanCare RFI Sampling	CleanCare	Pacific Groundwater Group	3/18/1994
CleanCare Corporation Quarterly Report	CleanCare	Pacific Groundwater Group	4/15/1994
Technical Memorandum, Preliminary Groundwater Analysis Results from CleanCare RFI Sampling	CleanCare	Pacific Groundwater Group	6/1/1994
CleanCare Corporation Quarterly Report	CleanCare	ERC	7/15/1994
Technical Memorandum, Groundwater Level Monitoring for Tidal Influence	CleanCare	ERC	9/23/1994
CleanCare Corporation Quarterly Report, 3rd Quarter, 1994	CleanCare	ERC	10/12/1994
CleanCare Corporation Quarterly Report, 4th Quarter, 1994	CleanCare	ERC	1/14/1995
CleanCare Corporation Quarterly Report, 1st Quarter, 1995	CleanCare	ERC	4/14/1995
Technical Memorandum, Groundwater Level Monitoring	CleanCare	Pacific Groundwater Group	7/10/1995
Technical Memorandum Soil Sampling Below New Building Formation Pad	CleanCare	Pacific Groundwater Group	7/13/1995
CleanCare Corporation Quarterly Report, 2nd Quarter, 1995	CleanCare	Pacific Groundwater Group	7/14/1995
Groundwater Monitoring Plan CleanCare Corporation Tacoma, WA	CleanCare	Pacific Groundwater Group	10/14/1995
CleanCare Corporation Quarterly Report, 3rd Quarter, 1995	CleanCare	Pacific Groundwater Group	10/16/1995
CleanCare Corporation Quarterly Report, 4th Quarter, 1995	CleanCare	Pacific Groundwater Group	1/15/1996
CleanCare Corporation Quarterly Report, 1st Quarter, 1996	CleanCare	CleanCare Corporation	4/15/1996

TABLE 1
HISTORICAL INVESTIGATIONS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Investigation	Parcels Evaluated	Author	Date
CleanCare Corporation Quarterly Report, 2nd Quarter, 1996	CleanCare	CleanCare Corporation	7/15/1996
CleanCare Corporation Quarterly Report, 3rd Quarter, 1996	CleanCare	CleanCare Corporation	10/15/1996
CleanCare Corporation Quarterly Report, 4th Quarter, 1996	CleanCare	CleanCare Corporation	1/15/1997
CleanCare Corporation Quarterly Report, 1st Quarter, 1997	CleanCare	CleanCare Corporation	4/15/1997
CleanCare Corporation Quarterly Report, 2nd Quarter, 1997	CleanCare	CleanCare Corporation	7/15/1997
CleanCare Corporation Quarterly Report, 3rd Quarter, 1997	CleanCare	CleanCare Corporation	10/13/1997
CleanCare Corporation Quarterly Report, 1st Quarter, 1998	CleanCare	CleanCare Corporation	1/13/1998
CleanCare Corporation Quarterly Report, 2nd Quarter, 1998	CleanCare	CleanCare Corporation	4/15/1998
CleanCare Corporation Quarterly Report, 2nd Quarter, 1998	CleanCare	CleanCare Corporation	7/15/1998
CleanCare Corporation Quarterly Report, 3rd Quarter, 1998	CleanCare	CleanCare Corporation	10/15/1998
CleanCare Quarterly Report (October - December 1998)	CleanCare	Pacific Groundwater Group	1/11/1999
CleanCare Corporation Quarterly Report, 1st Quarter, 1999	CleanCare	CleanCare Corporation	4/15/1999
CleanCare Corporation Quarterly Report, 2nd Quarter, 1999	CleanCare	CleanCare Corporation	7/14/1999
Tacoma RFI Status Report	Stericycle	Philip Services Corporation	July 1999
Reccomendation for Enforcement, CleanCare TSDR Facility	CleanCare	Department of Ecology	7/22/1999
Action Memorandum- Request for a Removal Action	CleanCare	EPA	1/5/2000
Historical Water Levels sent to Carolyn Mayer, Philip Services Corporation	CleanCare	Department of Ecology	5/19/2000
Superfund Fact Sheet - CleanCare	CleanCare	EPA	July 2000

TABLE 1
HISTORICAL INVESTIGATIONS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Investigation	Parcels Evaluated	Author	Date
Letter to Department of Ecology Re: Completion of EPA's Removal Action at the CleanCare Time-Critical Removal Site	CleanCare	EPA	9/20/2000
Transmittal to Emerald Petroleum, Clean Care Corporation Figures 1-3, Soil and Groundwater Sampling Locations	CleanCare	CH2M HILL Engineers, Inc.	9/28/2000
Fax to Kerry Graber, Ecology, Re: Field Notes from Clean Care Project	CleanCare	CH2M HILL Engineers, Inc.	10/1/2000
CleanCare Facility, Subsurface Soil Data Contract 68-W6-0008	CleanCare	Ecology and Environment, Inc.	10/2/2000
Due Dilegence Investigation for Emerald, tables and maps only	CleanCare	CH2M HILL Engineers, Inc.	10/23/2000
Letter to Emerald Services Re: Review of Due Diligence Data from the CleanCare Facility	CleanCare	Department of Ecology	11/16/2000
Laboratory Report, Clean Care Stormwater Results	CleanCare	Manchester Environmental Laboratory, Department of Ecology	January 2001
CleanCare Summary Results, Geoprobe Investigation, Preliminary Lab Data, Table	CleanCare	unknown	May 2001
Final Work Plan Initial Site Investigation Cleancare Corporation Facility, 1510 Taylor Way Tacoma, Washington	CleanCare	Tacoma-Pierce County Health Department	5/11/2001
Email RE: Sampling Results from CleanCare, from Sharon Bell (TPCHD) to Kaia Petersen (Ecology)	CleanCare	Tacoma-Pierce County Health Department	7/24/2001
Email RE: GW Monitoring Results, CleanCare, from Sharon Bell (TPCHD) to Kaia Petersen et. All (Ecology)	CleanCare	Tacoma-Pierce County Health Department	8/1/2001
Source Protection Programs/Site Hazard Assessment, CleanCare Corporation	CleanCare	Tacoma-Pierce County Health Department	2/26/2002
Email RE: CleanCare monitoring well info, from Sharon Bell (TPCHD) to Joe Depner (PSC)	CleanCare	Tacoma-Pierce County Health Department	5/13/2002
Technical Memorandum Clean Care Site Hazard Assessment	CleanCare	Tacoma-Pierce County Health Department	6/30/2003
Final Comprehensive RI Report, Philip Services Corporation Tacoma Facility	Stericycle with data from surrounding parcels also discussed	Philip Services Corporation	1/21/2005
Annual Groundwater Data Analysis	Emerald Facility	CH2M HILL Engineers, Inc.	4/1/2005
Profiles of Damage Cases from Hazardous Waste Recycling	CleanCare	Earth Justice	5/31/2005
Draft Feasibility Study Work Plan, Philip Services Corporation Tacoma Facility	Stericycle with data from surrounding parcels also discussed	Geomatrix Consultants	August 2005

TABLE 1
HISTORICAL INVESTIGATIONS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Investigation	Parcels Evaluated	Author	Date
Remedial Investigation Prologis Taylor Way Property	1514 Taylor Way	Floyd-Snider	10/3/2006
Prologis Taylor Way Property Feasibility Study	1514 Taylor Way	Floyd Snider	December 2006
Phase I Environmental Site Assessment for Port of Tacoma	Hylobos Marsh	Floyd Snider	May-08
Data Summary and Conceptual Site Model, Taylor Way and Alexander Avenue Fill Site, prepared for the Port of Tacoma	TWAAFA Site except for "Hylebos Marsh" western Port of Tacoma property	GeoEngineers	7/1/2008
Annual Groundwater Data Analysis -2012	Emerald Facility	CH2M HILL Engineers, Inc.	April 2013
Annual Groundwater Data Analysis -2013	Emerald Facility	CH2M HILL Engineers, Inc.	April 2014
Annual Groundwater Data Analysis -2014	Emerald Facility	CH2M HILL Engineers, Inc.	April 2015
Phase II Investigation Summary Report Tacoma LNG, Puget Sound Energy, Liquid Natural Gas Pipeline, Tacoma/Fife, Washington	North of TWAAFA Site	Golder Associates Inc	11/12/2015
Annual Groundwater Data Analysis -2015	Emerald Facility	CH2M HILL Engineers, Inc.	April 2016
Annual Groundwater Data Analysis -2016	Emerald Facility	CH2M HILL Engineers, Inc.	4/11/2017
Geotechnical Report, Taylor Way and Lincoln Avenue Industrial Sites, Taylor Way and Lincoln Avenue, Tacoma, Washington. Prepared for Avenue 55, LLC	1514 Taylor Way	Terra Associates, Inc	4/10/2017
1514 Taylor Way Development Interim Action Work Plan	1514 Taylor Way	Floyd-Snider	June 2017

TABLE 2
HISTORICAL SITE SAMPLING NOMENCLATURE TERMINOLOGY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Historical Sample Nomenclature	Generally Associated with which Property	Generally Associated with which Depth Interval	Notes/Acronym Definition
CTMW-#	Stericycle	Shallow Fill unless name includes a "D", which indicates sample collected beneath the shallow silt layer	Chempro Tacoma Monitoring Well
CCW-#	CleanCare	A, B, C indicate depths - A being shallowest	CleanCare Well
TP	Various	Shallow Fill	Test Pit
GP	Various	Shallow Fill	Geoprobe boring
MW	Various	Shallow Fill	Monitoring Well
PZ	Stericycle	Shallow Fill	Piezometer
B	CleanCare & 1514 Taylor Way	Shallow Fill	Boring
PP-#	1514 Taylor Way	Shallow Fill	Pushprobe boring
PMW-#	1514 Taylor Way	A and B indicate depths, A being shallower	Port Monitoring Well
SRI	Various	Shallow Fill unless name includes a "D", which indicates sample collected beneath the shallow silt layer	Supplemental Remedial Investigation (PSC)
EMW	Emerald	Shallow Fill	Emerald Monitoring Well
SEA	Stericycle & CleanCare	Shallow Fill	Boring
TB	Stericycle	Shallow Fill	Test Boring
SB	Hylebos Marsh	varied	Monitoring Well

TABLE 3
MEASURED SILT LAYER THICKNESS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

TWAAFA Area	Boring Location ID	Approximate Silt Thickness (feet)
Western Port of Tacoma Property	SB-2	10
Western Port of Tacoma Property	SRI-34	>8
Western Port of Tacoma Property	SRI-33	>4
Western Port of Tacoma Property	SRI-17	9
Western Port of Tacoma Property	SRI-18	6
Western Port of Tacoma Property	SB-3	>10
Western Port of Tacoma Property	SRI-19	21
Western Port of Tacoma Property	SB-4	15
Western Port of Tacoma Property	SRI-16	6
Stericycle	SRI-23	8
Stericycle	SRI-25	8
Stericycle	SRI-20	12
Stericycle	SRI-22	>4
Stericycle	SRI-2	8
Stericycle	SRI-14	9.5
Stericycle	SRI-1	2.5
Stericycle	SRI-12	9.5
Stericycle	CTMW-11	6
Stericycle	CTMW-17	4
Stericycle	SRI-3	9
Stericycle	SRI-10	6.5
Stericycle	CTMW-24	4
Stericycle	SRI-4	4.5
Stericycle	CTMW-6/7	1
Stericycle	CTMW-8/9	4.5
Stericycle	SRI-7	>5
Stericycle	SRI-9	7.5
Stericycle	SRI-8	4
Stericycle	CTMW-25	5
CleanCare	CCW-3	5.5
CleanCare	CCW-5	7
CleanCare	CCW-6	6
CleanCare	CCW-7	10
CleanCare	CCW-2	1
CleanCare	CCW-1	6.5
CleanCare	CCW-4	6
CleanCare	SRI-6	5
1514 Taylor Way	PMW-1	1.5
1514 Taylor Way	CPT-1	4
1514 Taylor Way	PMW-5	5.5
1514 Taylor Way	PMW-3	1
1514 Taylor Way	CPT-3	6
1514 Taylor Way	PMW-4	9
1514 Taylor Way	CPT-4	10
1514 Taylor Way	PP-2	<4
1514 Taylor Way	BH-16	2.5
1514 Taylor Way	CPT-2	2
1514 Taylor Way	PP-1	2
1514 Taylor Way	BH-17	6

TABLE 4
FILL MATERIALS HISTORICALLY OBSERVED
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Fill Material	Possible Sources	Common Constituents of Concern in Fill Materials
Lime Sludge	Lime sludge from Hooker Chemical Company spent catalyst from the production of chlorinated solvents	metals, chlorinated VOCs, SVOCs (HCBD)
Gypsum Lime	Domtar Industries powdered hydrated limestone	none over screening levels
Auto Fluff	Pulverized or fragmented wire, glass shards, upholstrey, tire shreds, paint chips, metal, string, plastic, and rubber from General Metals	metals, SVOCs (phthalates, naphthalene), VOCs (BTEX), PCBs
Wood	former Sawmill operations, possible fill from offsite	not specifically tested
Slag	Unknown	lead, arsenic, and TPH
LNAPL/waste oil	Tank cleaning scales and sludges, waste oil,	gas and diesel range TPH, VOCs, PCBs, metals
Railroad ballast, drums, and paint cans	Various	BTEX, TPH, VOCs, SVOCs, metals, and PCBs
Constuction Debris	Building demolition, possible fill from offsite	variable

Notes:

Fill materials were noted in multiple lithologic logs reviewed as part of this Data Gaps Work Plan.

Information on sources and constituents of concern based primarily on data and historical summaries presented in the 2005 Stericycle RI Report.

TABLE 5
LIME WASTE HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

"Solvent Lime Samples"[1]	SRI-1 (Stericycle Property)	B-6 (CleanCare Property)	CCW-4B (Clean Care Property)	B13	B14
Sample Depth (feet bgs)	**16 to 20**	**4.5 to 6**	**6-7.5**	**7**	**7**
Sample Date	**1/12/2001**	**Feb-94**	**2/1/1994**	**5/24/2001**	**5/24/2001**
Metals (mg/kg)					
Arsenic	24.8	NA	NA	NA	NA
Barium	12.3	NA	NA	NA	NA
Chromium	4.68	NA	NA	NA	NA
Copper	4.92	NA	NA	NA	NA
Lead	95.2	NA	NA	NA	NA
Manganese	30.1	NA	NA	NA	NA
Mercury	0.255	NA	NA	NA	NA
Nickel	36.9	NA	NA	NA	NA
Selenium	0.565	NA	NA	NA	NA
Zinc	11.7	NA	NA	NA	NA
Volatile Organics (ug/kg)					
Tetrachloroethene	11,800	13,000	160	670	1200
Trichloroethene	289	<250	8.4	460	110
cis-1,2-dichloroethene	590	<250	<1.5	NA	NA
Methylene chloride	ND	960 B	22 B	NA	NA
Benzene	NA	<250	4.3	0.68	0.47 J
Toluene	NA	<250	45	1.9	1.4
Ethylbenzene	NA	<250	100	NA	NA
Total Xylenes	NA	<500	170	NA	NA
Petroleum Hydrocarbons (mg/kg)					
Gasoline	54.7	NA	NA	810	2000
Diesel	4,810	NA	NA	NA	NA
Lube Oil	6,960	NA	NA	NA	NA
"Gypsum Lime Samples"[2]	**CTMW-11**	**CTMW-16**	**CTP-4B-1 ('lime cement')**	**CTP-4B-2 ('lime cement')**	**CTP-11B-1 ('lime/ sand')**
Sample Depth (feet bgs)	**4.5 to 14**	**5 to 6.5**	**3**	**4**	**1.5**
Sample Date	**11/27/1987**	**4/9/1991**	**9/29/1987**	**9/29/1987**	**9/29/1987**
Metals (mg/kg)					
Arsenic	6.4	3.5	6.1	1.7	4.2
Barium	NA	8.8	12	13	57
Beryllium	0.3	NA	NA	NA	NA
Cadmium	NA	0.64	ND	ND	6.6
Chromium	16	4.1	13	9	275
Copper	17	6.1	10	11	31
Iron	NA	1,300	NA	NA	NA
Lead	4.4	7.9	ND	ND	22
Nickel	20	5.7	8	9.2	46
Zinc	40	37	26	19	74
Volatile Organics (ug/kg)					
2-Hexanone	NA	64	NA	NA	NA
4-Methyl-2-pentanone	NA	72	NA	NA	NA
Acetone	NA	370	ND	ND	NA
Methylene chloride	NA	19	8.4	ND	ND
Toluene	NA	15	ND	ND	ND
Semivolatile Organics (ug/kg)					
3-3'-Dichlorobenzidine	NA	450	NA	NA	NA
4-Methylphenol	NA	130	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	1,300	ND	ND	140
Butylbenzylphthalate	NA	480	ND	ND	ND
Di-n-Butylphthalate	NA	50	ND	ND	ND
Di-n-octylPhthalate	NA	170	ND	ND	ND
Phenanthrene	NA	70	ND	ND	ND
PCBs (ug/kg)	NA	NA	ND	ND	ND

Notes:

1. Material is generally described in historical reports as lime sludge from Hooker Chemical Company spent catalyst from the production of chlorinated solvents.

2. Material is generally described in historical reports as gypsum lime or Domtar Industries powdered hydrated limestone.

3. NA = not analyzed; ND = not detected

TABLE 6
AUTO-FLUFF HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

	TB-1 and TB-1A	TB-1B	TB-2 and TB-2A	TB-2B	TB-3 and TB-3A	TB-3B	TB-4 and TB-4A	TB-4B	CTMW-6	CTP-3B #1	CTP-7B #2
Sample Depth (feet bgs)	**0-5**	**0-5**	**0-5**	**0-5**	**0-5**	**0-5**	**0-5**	**0-5**	**0-5**	**1.5**	**3**
Sample Date	**9/28/1988**	**9/28/1988**	**9/28/1988**	**9/28/1988**	**9/28/1988**	**9/28/1988**	**9/28/1988**	**9/28/1988**	**6/1/1987**	**9/29/1987**	**9/29/1987**
Metals (mg/kg)											
Arsenic	151	72	22	22	50	58	7.7	10	10	4.4	14
Barium	2,050	4,880	1,360	1,720	5,800	3,490	604	407	407	66	1,090
Cadmium	86	146	19	34	53	67	12	9	9	4.2	22
Chromium	110	287	99	121	230	229	83	38	38	386	71
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	179
Lead	2970	6,460	1,140	2,190	3,150	8,230	1,080	558	558	120	2250
Mercury	2	4.3	1.2	1.7	3.2	2.5	0.67	0.79	0.79	0.2	1.4
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	111
Selenium	ND	45	ND	ND	2.1	ND	ND	ND	ND	NA	NA
Silver	10	6.1	ND	ND	5.3	4.9	ND	ND	ND	1	1
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	2120
Total cyanide	3.5	4.2	ND	ND	ND	ND	ND	ND	ND	1.8	NA
Volatile Organics (ug/kg)											
2-Butanone	180	NA	82	NA	ND	NA	30	NA	ND	NA	<36
4-Methyl-2-pentanone	ND	NA	17	NA	ND	NA	ND	NA	ND	NA	<21
Acetone	1200	NA	430	NA	26	NA	200	NA	ND	NA	<67
Benzene	5.2	NA	17	NA	ND	NA	1.1	NA	ND	NA	<9.8
Carbon dislfide	ND	NA	13	NA	ND	NA	ND	NA	ND	NA	<12
Chlorobenzene	ND	NA	25	NA	ND	NA	Nd	NA	ND	NA	<7.5
Ethylbenzene	22	NA	220	NA	ND	NA	44	NA	250	880	<12
Methylene chloride	16	NA	15	NA	16	NA	10	NA	ND	ND	<6
Styrene	ND	NA	110	NA	ND	NA	ND	NA	ND	NA	<16
Tetrachloroethene	ND	NA	ND	NA	16	NA	ND	NA	ND	NA	<6.9
Toluene	31	NA	320	NA	3	NA	13	NA	210	490	9.2
Total xylenes	80	NA	560	NA	ND	NA	62	NA	840	ND	57
Trichloroethene	ND	NA	5.2	NA	ND	NA	ND	NA	ND	NA	<8.1
Semivolatiles Organics (ug/kg)											
2-methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	2,000	ND	20000
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	190	ND	<2400
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	770	ND	<5300
Bis (2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	66,000	10000	<8100
Butylbenzylphthalate	NA	NA	NA	NA	NA	NA	NA	NA	17,000	ND	120000
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	2,000	NA	<1300
Di-n-butylphthalate	NA	NA	NA	NA	NA	NA	NA	NA	2,800	ND	<3200
Di-n-octylphthalate	NA	NA	NA	NA	NA	NA	NA	NA	21,000	NA	140000
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	4,100	NA	<7400
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	1,700	NA	11000
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	3,000	NA	8500
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	2,600	NA	<6800
Pesticides/PCBs (ug/kg)											
Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	21	940	14400

Notes:
Data from sampling performed on the former Parcel A (Stericycle Property) as part of closure activities
Material is generally described in historical reports as pulverized or fragmented wire, glass shards, upholstrey, tire shreds, paint chips, metal, string, plastic, and rubber from General Metals.
NA = Not available; ND = not detected; < = not detected above value shown

TABLE 6
AUTO-FLUFF HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

	CTP-10B #2	CTP-11B #3	CTP-11B #4	12B #1	22-24	32-19	70-19	84-19	90-19	137-19	141-19	160-30
Sample Depth (feet bgs)	**2.5**	**3.5**	**4.5**	**3**	**2**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**2.5**
Sample Date	**9/28/1987**	**9/30/1987**	**9/30/1987**	**9/25/1987**	**1987**	**1987**	**1987**	**1987**	**1987**	**1987**	**1987**	**1987**
Metals (mg/kg)												
Arsenic	16	226	2.6	3.9	34	12	25	23	2	23	3	NA
Barium	1,440	1,260	16	95	659	714	1,925	825	18	1,173	29	NA
Cadmium	43	37	<0.5	ND	12	18	43	28	0.5	63	<0.5	<0.5
Chromium	144	262	11	26	94	74	139	417	13	394	12	6
Copper	2550	1010	8.4	20	180	490	361	205	11	306	12	9
Lead	3300	9750	21	23	5061	4389	3252	6722	85	3696	65	150
Mercury	2.8	6.4	0.1	ND	2	0.7	1.6	0.9	<0.05	1.1	<0.05	NA
Nickel	237	409	6.1	38	134	101	746	97	15	120	5 L	8
Selenium	NA	NA	NA	NA	NA	NA	1.3	1.4	NA	NA	NA	NA
Silver	5	22.6	1	NA	4	3	5	4	1	4	1	NA
Zinc	3750	6500	25	86	2020	2619	3406	2961	89	2860	1.2	30
Total cyanide	11.6	0.5	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organics (ug/kg)												
2-Butanone	<8.7	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	<5	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	74	56000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	150	16000	820	ND	NA	NA	NA	NA	NA	NA	NA	NA
Carbon dislfide	<2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	<1.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100	32000	1700	ND	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	16	ND	ND	6.2	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	52	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	<1.7	580	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	500	94000	1000	ND	NA	NA	NA	NA	NA	NA	NA	NA
Total xylenes	330	200000	12000	ND	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	<1.9	1300	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatiles Organics (ug/kg)												
2-methylnaphthalene	ND	620000	3400	190	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ND	35000	360	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Bis (2-ethylhexyl)phthalate	340000	110000	ND	510	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	94000	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	16000	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	26000	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ND	310000	1600	ND	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	5600	220000	2100	120	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ND	53000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCBs (ug/kg)												
Total PCBs	5000	5600	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Data from sampling performed on the former
Material is generally described in historical re
NA = Not available; ND = not detected; < = n

TABLE 6
AUTO-FLUFF HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

	173-30	186-30
Sample Depth (feet bgs)	**2.5**	**2.5**
Sample Date	**1987**	**1987**
Metals (mg/kg)		
Arsenic	4	8
Barium	33	40
Cadmium	<0.5	4
Chromium	19	1686
Copper	32	136
Lead	269	95
Mercury	0.1	0.2
Nickel	11	29
Selenium	NA	NA
Silver	1	9
Zinc	181	178
Total cyanide	NA	NA
Volatile Organics (ug/kg)		
2-Butanone	NA	NA
4-Methyl-2-pentanone	NA	NA
Acetone	NA	NA
Benzene	NA	NA
Carbon dislfide	NA	NA
Chlorobenzene	NA	NA
Ethylbenzene	NA	NA
Methylene chloride	NA	NA
Styrene	NA	NA
Tetrachloroethene	NA	NA
Toluene	NA	NA
Total xylenes	NA	NA
Trichloroethene	NA	NA
Semivolatiles Organics (ug/kg)		
2-methylnaphthalene	NA	NA
Acenaphthene	NA	NA
Benzo(a)anthracene	NA	NA
Bis (2-ethylhexyl)phthalate	NA	NA
Butylbenzylphthalate	NA	NA
Chrysene	NA	NA
Di-n-butylphthalate	NA	NA
Di-n-octylphthalate	NA	NA
Fluoranthene	NA	NA
Naphthalene	NA	NA
Phenanthrene	NA	NA
Pyrene	NA	NA
Pesticides/PCBs (ug/kg)		
Total PCBs	NA	NA

Notes:
Data from sampling performed on the former
Material is generally described in historical re
NA = Not available; ND = not detected; < = n

TABLE 7
SLAGEY SAND HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Sample Information			WTPH-HCID			WTPH-G	WTPH-D	WTPH-418.1	Total Arsenic	Total Lead
			Gas	Diesel	Oil					
Sample	Date	Depth (ft)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
TPcomp1	1995	0-1	>20	>50	>100	1100	280	810	NA	NA
TPcomp2	1995	1-2	<20	>50	>100	NA	NA	NA	NA	NA
TPcomp3	1995	2-3	<60	>150	>300	NA	1200	2800	NA	NA
TPcomp4	1995	3-4	<60	>150	>300	NA	NA	NA	NA	NA
TPcomp5	1995	4-5	<60	>150	>300	NA	3400	7800	NA	NA
TPcomp6	1995	5-6	<20	>50	>100	NA	NA	NA	NA	NA
TPcomp7	1995	6-7	<20	>50	>100	NA	<32	<100	NA	NA
TP1-1	1995	0-1	NA	NA	NA	NA	NA	NA	79	150
TP3-1	1995	0-1	NA	NA	NA	NA	NA	NA	11	53
TP4-1	1995	0-1	NA	NA	NA	NA	NA	NA	<9.4	19
TP2-1	1995	0-1	NA	NA	NA	NA	NA	NA	9.6	44
TP1-4	1995	3-4	NA	NA	NA	NA	NA	NA	5400	4800
TP1-5	1995	4-5	NA	NA	NA	NA	NA	NA	1200	2100

Notes: Data from sampling performed on the CleanCare Property

TABLE 8
LNAPL PRODUCT HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Sample ID/ Detail	CTMW-10-0198	CTMW-6-0198	MW-1-1201	MW-4	MW-4	P-4-CTMW10	P-4-CTMW6	PZ-1 FP	PZ-10198	PZ-3 FP	PZ-3-0198	PZ-9-3-0198	wood waste" CCW-2B	"oily" CCW-3B	"oily" CCW-4B	MW-4
Date	**1/28/1998**	**1/28/1998**	**12/21/2001**	**6/9/1994**	**9/29/1998**	**4/23/1992**	**4/23/1992**	**6/9/1994**	**1/28/1998**	**6/9/1994**	**1/28/1998**	**1/28/1998**	**2/1/1994**	**2/1/1994**	**2/1/1994**	**9/29/1998**
Metals (mg/kg)																
Arsenic	1.38	ND	NA	NA	NA	ND	ND	NA	NA	NA	0.28	ND	16	NA	<20	NA
Barium	21.4	13	NA	31	NA	54	120	160	NA	54	26	32.2	NA	NA	NA	NA
Chromium	0.674	0.88	NA	ND	NA	3.9	6.8	ND	NA	ND	1.1	1.57	34.6	NA	69	NA
Copper	0.609	0.83	NA	NA	NA	NA	NA	NA	NA	NA	1.7	1.95	NA	NA	NA	NA
Lead	23.8	21	NA	100	NA	40	170	340	NA	600	18	221	606	NA	3250	NA
Nickel	5.29	1.5	NA	NA	NA	NA	NA	NA	NA	NA	4	5.1	NA	NA	NA	NA
Zinc	0.968	20	NA	NA	NA	NA	NA	NA	NA		16	17	NA	NA	NA	NA
Volatile Organics (ug/kg)																
1,2-Dichlorobenzene	ND	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND
1,2,4-Trimethylbenzene	68	NA	ND	31	630	54	NA	NA	NA	NA	99	140	NA	NA	NA	630
1,3,5-Trimethylbenzene	ND	NA	ND	ND	470	3.9	NA	NA	NA	NA	25	38	NA	NA	NA	470
1,4-Dichlorobenzene	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND
1-Methylethylbenzene	2.8	NA	ND	100	NA	40	NA	NA	NA	NA	ND	5.8	NA	NA	NA	ND
2-Methylpentante	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	17	NA	NA	NA	ND
3-Methylpentane	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	10	NA	NA	NA	ND
Acetone	13	NA	ND	ND	NA	ND	ND	NA	NA	NA	ND	3.4	<1100	NA	NA	ND
Benzene	ND	NA	ND	NA	NA	ND	1.1	NA	NA	NA	5.5	5.9	990	NA	NA	ND
Ethylbenzene	4.2	NA	ND	NA	500	6.4	8.8	NA	NA	NA	33	40	24000	NA	NA	500
m,p-Xylene	NA	NA	ND	ND	460	NA	NA	NA	NA	NA	110	120	NA	NA	NA	460
m-Xylene	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	290
p-Xylene	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
methylcyclopentane	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	19	NA	NA	NA	ND
n-Butylbenzene	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	24	NA	NA	NA	ND
n-Propylbenzene	6.7	NA	ND	NA	NA	NA	NA	NA	NA	NA	12	19	NA	NA	NA	ND
o-Xylene	ND	NA	ND	NA	290	NA	NA	NA	NA	NA	31	37	NA	NA	NA	ND
p-Isopropyltoluene	11	NA	ND	NA	NA	NA	NA	NA	NA	NA	6.3	8.4	NA	NA	NA	ND
sec-Butylbenzene	5.9	NA	ND	NA	NA	NA	NA	NA	NA	NA	4.7	7.2	NA	NA	NA	ND
Toluene	ND	NA	NA	NA	410	NA	1.2	NA	NA	NA	27	22	4000	NA	NA	410
Total xylenes	NA	NA	NA	NA	NA	NA	44	NA	NA	NA	NA	NA	48000	NA	NA	NA
Semivolatile Organics (ug/kg)																
2-Methylnaphthalene	12000	NA	1400	ND	5900	880	250	220	830	4800	11000	10000	50000	NA	NA	5900
Acenaphthene	ND	NA	120	ND	5800	ND	ND	ND	ND	ND	ND	ND	11000	NA	NA	5800
Acenaphthylene	ND	NA	ND	ND	NA	160	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Anthracene	5800	NA	270	ND	2800	1000	ND	ND	750	ND	1700	2200	8700	NA	NA	2800
Benzo(a)anthracene	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	150	ND	4000	NA	NA	NA
Bis(2-ethylhexyl)phthalate	ND	NA	ND	NA	320000	NA	NA	NA	NA	NA	ND	ND	2100	NA	NA	320000
Butylbenzylphthlate	NA	NA	NA	NA	6800	NA	NA	NA	NA	NA	NA	NA	<370	NA	NA	6800
Chrysene	ND	NA	ND	ND	3100	86	ND	ND	ND	ND	ND	ND	4900	NA	NA	3100
Dibenzofuran	NA	NA	NA	NA	2500	NA	NA	NA	NA	NA	NA	NA	11000	NA	NA	2500

TABLE 8
LNAPL PRODUCT HISTORICAL ANALYTICAL DATA
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Sample ID/ Detail	CTMW-10-0198	CTMW-6-0198	MW-1-1201	MW-4	MW-4	P-4-CTMW10	P-4-CTMW6	PZ-1 FP	PZ-10198	PZ-3 FP	PZ-3-0198	PZ-9-3-0198	wood waste" CCW-2B	"oily" CCW-3B	"oily" CCW-4B	MW-4
Di-n-butylphthalate	NA	NA	NA	NA	3800	NA	NA	NA	NA	NA	NA	NA	<370	NA	NA	3800
Di-n-octylphthalate	NA	NA	NA	NA	31000	NA	NA	NA	NA	NA	NA	NA	<370	NA	NA	31000
Fluoranthene	22	NA	ND	ND	1900	ND	ND	ND	64	ND	970	1300	20000	NA	NA	1900
Fluorene	ND	NA	310	ND	6200	330	ND	ND	2900	ND	820	780	15000	NA	NA	6200
N-Nitrosodiphenylamine	NA	NA	NA	NA	19000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19000
Naphthalene	67	NA	ND	ND	9600	270	ND	ND	230	ND	4100	3300	66000	NA	NA	9600
Phenanthrene	8500	NA	690	ND	11000	730	99	ND	380	ND	3800	3600	48000	NA	NA	11000
Pyrene	ND	NA	120	ND	4400	150	ND	ND	160	ND	ND	ND	13000	NA	NA	4400
Pesticides (ug/kg)																
4,4'-DDD	0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.178	NA	NA	NA	NA	NA
alpha-BHC	0.137	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Dieldrin	0.355	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Endosulfan I	0.0755	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Endosulfan sulfate	0.841	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.12	NA	NA	NA	NA	NA
Heptachlor epoxide	0.0998	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.277	NA	NA	NA	NA	NA
PCBs (ug/kg)																
Aroclor 1242	4.6	NA	ND	NA	ND	NA	NA	NA	NA	NA	5.6	4.87	NA	NA	NA	NA
Aroclor 1248	ND	NA	ND	NA	ND	2.2	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA
Aroclor 1254	1.7	NA	ND	NA	ND	NA	3	NA	NA	NA	2.4	2.34	NA	NA	NA	NA
Aroclor 1260	0.56	NA	ND	NA	ND	NA	NA	NA	NA	NA	2.3	2.48	NA	NA	NA	NA
Total PCBs	6.86	NA	NA	ND	ND	2.2	3	43	NA	ND	10.3	9.69	NA	NA	NA	NA
TPH (mg/kg)																
gas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4200	24	160	NA
diesel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11000	540	5100	95000
oil	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	960	2300	36000	330000

Notes:

NA = Not available; ND = not detected; < = not detected above value shown

Source = Data from 2005 PSC Comprehensive Remedial Investigation Report, results for all compounds not available as indicated by NA

TABLE 9
LNAPL PRODUCT SAMPLE COMPARISON
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Location	Sample Collection Date	TPH Results Gas	TPH Results Diesel	TPH Description (Friendman and Bruya, Inc.)	TPH Description (Manchester Environmental Laboratory)
CCW-2A (CleanCare)	6/21/2000	NA	NA	Not detected.	Large amount of weathered gasoline, small amount of #2 diesel oil and large amount of unknowns (PCE or DCE?)
MW-4 (Parcel A - NW corner at CleanCare boundary)	9/20/2000	<500	1600	Mixture of a middle distillate (e.g., diesel #2, heating oil, C12 to C24) and highter boiling product (e.g. lube oil, C20 to >C36).	Primarily lube oil with a heavily weathered #2 diesel oil (or #fuel oil)
CTMW-10	6/22/2000	<500	6,900	Mixture of a middle distillate (e.g., diesel #2, heating oil, C12 to C24) and highter boiling product (e.g. lube oil, C20 to >C36).	Heavily weathered #2 diesel oil (or #2 fuel oil) and a lube oil.
CTMW-10	9/26/2000	<500	3,500	Mixture of a highly degraded middle distillate (e.g., diesel fuel, fuel oil, C10 to C24) and a higher boiling product (e.g., lube oil biogenic material, C20 to C32)	NA
CTMW-1 (Parcel A at Potter boundary)	9/27/2000	870	25,000	Same as CTMW-10 (6/22/2000)	NA
MW-1 (Potter N)	6/22/2000	620	8,000	Same as CTMW-10 (6/22/2000)	Same as CTMW-10 (6/22/2000)
MW-1 (Potter N)	9/26/2000	700	23,000	Same as CTMW-10 (6/22/2000)	NA
CTMW-6 (Parcels A and B boundary)	6/22/2000	<500	4,200	Mixture of degraded and non-degraded middle distillate (e.g., diesel fuel, fuel oil, C10 to C24) and a higher boiling product (e.g., lube oil or biogenic material, C20 to C32).	Heavily weathered #2 diesel oil (or #2 fuel oil) and a lube oil. Diesel weathering characterized by only the partial loss of the straight chain alkanes
CTMW-6 (Parcels A and B boundary)	9/25/2000	610	18,000	Same as CTMW-6 (6/22/2000)	NA
SRI-21 (North)	1/15/2002	--	3,100	Unidentifiable medium distillate (C8 to C32).	NA
SRI-22 (North)	1/7/2002	--	4,100	Unidentifiable medium distillate (C8 to C25)	NA

Notes: Information source is 2005 PSC Remedial Investigation Report

TABLE 10
LIME CHARACTERIZATION
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Locations where TCE detected in groundwater > 5 ug/L

CCW-1A (1994)*	TF3-05 (2000)
CCW-2A (1994-2002)	B13 (2001)
CCW-2B (1994-2001)	B14 (2001)
CCW-3B (1994)	SRI-1 (2001)
CTMW-1 (1987)	
CTMW-13 (1989)	
CTMW-17 (1991)	
CTMW-5 (2003)	
CTMW-6 (1987)	

Locations where PCE detected in groundwater > 5 ug/L

CCW-2A (1994-2002)	TF3-05 (2000)
CCW-2B (1994-2001)	TF3-08 (2000)
CCW-3B (1994)	B13 (2001)
CTMW-13 (1989)	B14 (2001)
CTMW-17 (1991, 1999)	SRI-1 (2001)
CTMW-5 (2001-2002)	
CTMW-6 (1987)	

Locations where TCE detected in soil

CTMW-13 (1989)	B8 (2001)	SRI-1 (2001)
SEA-14 (1987)	B12 (2001)	CCW-4B (1994)
B3 (2001)	B13 (2001)	SC0205 (2000)
B5 (2001)	B14 (2001)	

Locations where PCE detected in soil

CTMW-13 (1989)	SEA-3 (1987)	B5 (2001)	CCW-1B (1994)
CTMW-7 (1987)	SEA-8 (1987)	B8 (2001)	CCW-2B (1994)
SEA-1 (1987)	SEA-9 (1987)	B11 (2001)	CCW-4B (1994)
SEA-2 (1987)	B-6 (1994)	B13 (2001)	SRI-1 (2001)
SEA-14 (1987)	B3 (2001)	B14 (2001)	
SEA-21 (1987)	B4 (2001)	SC0205 (2000)	

Locations where log indicated "solvent lime" or "lime sludge" with PID/FID readings >100 ppm

SC101 (2000)	SC114 (2000)	L-2 (1987)
SC103 (2000)	SC115 (2000)	L-3 (1987)
SC104 (2000)	SC116 (2000)	L-4 (1987)
SC105 (2000)	SC117 (2000)	CCW-5B (2001)
SC106 (2000)	SC119 (2000)	CCW-6B (2001)
SC110 (2000)	SC122 (2000)	CCW-7B (2001)
SC111 (2000)	SC123 (2000)	B11 (2001)
SC112 (2000)	SC309 (2000)	
SC113 (2000)	SC313 (2000)	

Notes:

* This data point was superceded by more recent and comprehensive nearby data and was not included in mapping.The boring log for CCW-1 and several surrounding borings, including new 2018 data collected immediately east on Port property, do not indicate the presence of lime in this area, nor does groundwater data from subsequent sampling rounds and nearby data points. This one historical groundwater detection appears anomolous or influenced by nearby contamination.

TABLE 11
SUMMARY SOIL DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs							SVOCs						Metals		PCBs
Location	**Date**	**Depth (ft)**	**Gas**	**Diesel**	**Oil**	**Benzene**	**Ethyl-benzene**	**TCE**	**Toluene**	**PCE**	**Vinyl Chloride**	**Total Xylenes**	**B(a)P**	**bis(2-Ethylhexyl) phthalate**	**Butyl Benzyl Phthalate**	**Diethyl Phthalate**	**1,4-Dioxane (no gw protection)**	**Hexachloro-butadiene**	**Arsenic**	**Lead**	**Total PCBs**
		Units	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
		Screening Level	**30**	**2000**	**2000**	**0.0274**	**6.05**	**0.0254**	**4.52**	**0.0499**	**0.00167**	**13.1**	**5.14**	**13.4**	**12.8**	**72.2**	**10**	**0.605**	**7.3**	**24**	**1**
TP1 through TP4	3/17/1995	1	**1100**	280	810	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/17/1995	3	<60	1200	**2800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/17/1995	5	<60	**3400**	**7800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/17/1995	7	<20	<32	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TP1	3/17/1995	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**79**	**150 J**	--
	3/17/1995	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5400**	**4800 J**	--
	3/17/1995	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1200**	**2100 J**	--
TP3	3/17/1995	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11**	**53 J**	--
TP4	3/17/1995	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<9.4	19 J	--
TP2	3/17/1995	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.6**	**44 J**	--
B1	5/22/2001	3	**71**	600	210	--	--	--	--	--	--	--	0.06	0.52	0.71	--	--	--	**10**	**50**	0.127
B2	5/22/2001	6	**71**	550	1000	--	--	--	--	--	--	0.3	0.098	0.5	0.24	--	--	--	**13**	**820**	0.046
B3	5/22/2001	6	13	680	**4100**	--	--	.0027 J	0.0068	0.0077	--	--	0.15	8.6	--	--	--	--	**16**	**250**	0.0086
B4	5/22/2001	9	6.8	49	170	0.014	0.0023 J	--	0.0095	0.0073 J	--	0.0037	ND	0.12 J	--	--	--	--	**26**	**120**	ND
B5	5/22/2001	6	8.7	260	**2800**	0.0059 J	.0024 J	.0081 J	0.029	0.0078 J	--	--	ND	0.24 J	--	--	--	--	**19**	**390**	0.048
B-6	2/1/1994	6	--	--	--	<0.25	<0.25	<0.25	<0.25	13	<0.5	<0.5	--	--	--	--	--	--	--	--	--
B7	5/22/2001	6	**94**	1300	890	--	.200 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B8	5/22/2001	6	3.9	<35	<69	--	--	--	--	--	--	--	0.09	--	--	--	--	--	**13**	**310**	ND
B8	5/22/2001	9	2.8	35 J	81	--	--	0.0011 J	0.0029 J	0.0016 J	--	--	0.016	0.014 J	0.065 J	--	--	--	2.8	**160**	ND
B9	5/22/2001	3	<4.1	15 J	69 J	--	--	--	--	--	--	--	0.012	0.066	0.037	--	--	--	**15**	**78**	ND
B11	5/23/2001	3	**3300**	1700	480	--	1.2	--	0.21 J	0.14 J	--	4.5	--	--	--	--	--	.280 J	--	--	--
B12	5/22/2001	3	**560**	**2900**	**4000**	--	.200 J	--	0.17 J	--	--	1.1	--	--	--	--	--	--	**15**	**110**	0.027
	5/22/2001	9	2.6	200	78	--	--	.001 J	--	--	--	--	0.0041	.010 J	--	--	--	--	**150**	6.3	ND
B13	5/24/2001	7	**810**	--	--	0.68	0.78	**460**	1.9	**670**	--	3.4	--	--	--	--	--	--	--	--	--
	5/24/2001	9	--	120	57	--	--	--	--	--	--	--	0.007	0.12	0.013	--	--	0.2	**110**	3	ND
B14	5/24/2001	7	**2000**	--	--	0.47 J	.270 J	**110**	1.4	**1200**	**0.580 J**	.840 J	--	--	--	--	--	**200**	--	--	--
	5/24/2001	9	--	<29	<58	--	--	--	--	--	--	--	--	0.0094 J	--	0.0026	--	0.027	**220**	2.6	ND
B15	5/24/2001	7	--	1300	**8300**	--	--	--	--	--	--	--	1.9	--	--	--	--	--	**37**	**530**	0.014
CCW-1C	7/3/2001	5	5.1	230	200	--	--	--	--	--	--	--	0.023	--	--	--	--	--	**8.5**	**38**	--
	7/3/2001	7	<4.8	<28	<55	--	2.4	--	--	--	--	7.9	--	--	--	--	--	--	<2.3	<2.3	--
CCW-4C	7/5/2001	?	7.2	1200	**4700**	--	--	--	--	--	--	--	1.9	**370**	**23**	--	--	--	**14**	**1600**	--
CCW-5B	6/27/2001	7	--	**7200**	**2500**	--	--	--	--	--	--	--	0.19	3.1	2.1	--	--	--	**44**	**290**	--
CCW-6B	6/27/2001	7	--	86	240	--	--	--	--	--	--	--	--	--	--	--	--	--	**49**	**150**	--
CCW-7B	6/28/2001	5	--	--	--	--	--	--	--	--	--	--	3.5	--	--	--	--	--	--	--	--
CCW-8B	7/9/2001	3	--	--	--	--	1.9	--	--	--	--	1.5	--	--	--	--	--	**2.1**	--	--	--
CCW-1B	2/1/1994	12	<20	<25	<50	<0.0017	<0.0017	<0.0017	0.0068	0.002	<0.0033	<0.0033	--	--	--	--	--	--	--	--	--
CCW-2B	2/1/1994	6	**4200**	**11000**	960	0.99	**24**	<0.23	**4**	<0.23	<0.460	**48**	--	2.1	<0.37	--	--	--	**16**	**606**	--
	2/1/1994	15	<20	<25	<50	0.0026	0.0023	<0.0016	0.0026	0.016	**170**	0.0078	--	<0.11	<0.11	--	--	--	**26**	**35**	--
CCW-3B	2/1/1994	7.5	24	540	2300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1994	12	<20	<25	<50	<0.0016	0.0024	<0.0016	0.003	<0.0016	<0.0031	0.0038	--	4.6	2	--	--	--	--	--	--
CCW-4B	2/1/1994	6	**160**	**5100**	**36000**	--	--	--	--	--	--	--	--	--	--	--	--	--	<20	**3250**	--
	2/1/1994	7.5	--	--	--	0.0043	**0.1**	0.0084	0.045	0.16	<0.0029	0.17	--	--	--	--	--	--	--	--	--
	2/1/1994	13.5	<20	<25	<50	0.0016	<0.0015	<0.0015	0.0017	<0.0015	<0.003	<0.003	--	1.2	0.4	--	--	--	<8	20	--
SC0102	7/18/2000	0	--	120	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0104	7/18/2000	2	--	**2300**	**5000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0105	7/18/2000	2	--	**45000**	**6300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 11
SUMMARY SOIL DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs							SVOCs						Metals		PCBs
Location	**Date**	**Depth (ft)**	**Gas**	**Diesel**	**Oil**	**Benzene**	**Ethyl-benzene**	**TCE**	**Toluene**	**PCE**	**Vinyl Chloride**	**Total Xylenes**	**B(a)P**	**bis(2-Ethylhexyl) phthalate**	**Butyl Benzyl Phthalate**	**Diethyl Phthalate**	**1,4-Dioxane (no gw protection)**	**Hexachloro-butadiene**	**Arsenic**	**Lead**	**Total PCBs**
Units			**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Screening Level			**30**	**2000**	**2000**	**0.0274**	**6.05**	**0.0254**	**4.52**	**0.0499**	**0.00167**	**13.1**	**5.14**	**13.4**	**12.8**	**72.2**	**10**	**0.605**	**7.3**	**24**	**1**
SC0108	7/18/2000	0	--	**8400**	1900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0111	7/18/2000	4	--	**7700**	1900	<0.41	0.7	<0.41	0.36 J	<0.41	--	4.5	0.58 J	0.97 J	--		--	--	**75 J**	**300 J**	0.44
SC0117	7/18/2000	4	--	**4000**	**2600**	0.53	3.5	<0.44	**5.7**	<0.44	--	**25.9**	0.43 J	3.2 J	--		--	--	**69 J**	**500 J**	0.62
SC0119	7/19/2000	0	--	740	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0123	7/19/2000	2	--	**1300**	750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0126	7/19/2000	4	--	**2000**	**3200**	<0.47	<0.47	<0.47	<0.47	<0.47	--	<0.95	1.8 J	<0.28	<0.098		--	<0.098	**160 J**	**720 J**	0.63 J
SC0205	7/20/2000	2	--	310	880	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0205	7/20/2000	4	--	**11000**	**2600**	<0.6	0.5 J	**370**	**5.9**	**4900**	--	3.03	0.26 J	<0.15	<0.13		--	**250**	<19 J	**760 J**	<0.015
SC0303	7/19/2000	3	--	310	610	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0305	7/19/2000	3	--	**2400**	**7800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SC0310	7/19/2000	4	--	**2100**	**7200**	<0.45	<0.45	<0.45	<0.45	<0.45	--	<0.89	0.21 J	7.5 J	8.3 J		--	0.13	<10 J	**860 J**	**7.3**
SCO313	7/19/2000	1	--	**4300**	**10000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CC-SO-PA-11	8/23/2000	2	--	**2100**	1500	--	--	--	--	--	--	--	<0.15	12	2.2	<0.15	--	<0.15	**26**	**190**	0.53
CC-SO-PA-11	8/21/2000	3	--	<140	**6000**	--	--	--	--	--	--	--	0.79	**38**	**14**	<0.77	--	<0.77	**65**	**780**	--
CC-SO-PA-12	8/23/2000	2	--	**2400**	**5000**	--	--	--	--	--	--	--	<3.8	**110**	8.2	<3.8	--	<3.8	**110**	**510**	**1.55**
CC-SO-PA-12	8/21/2000	3	--	**5000**	**9200**	--	--	--	--	--	--	--	0.6	**40**	12	<0.81	--	<0.81	**32**	**710**	--
CC-SO-TF2-13	8/23/2000	2	--	100	910	--	--	--	--	--	--	--	<0.37	5.4	1.8	<0.37	--	<0.37	<11	**83**	0.88
CC-SO-TF2-13	8/21/2000	3	--	100	630	--	--	--	--	--	--	--	--	--	--	--	--	--	**20**	**130**	--
CC-SO-TF2-14	8/23/2000	3	--	<27	81	--	--	--	--	--	--	--	<0.035	<0.18	0.028	<0.035	--	<0.035	<11	**75**	<0.053
CC-SO-TF2-14	8/21/2000	4	--	<26	130	--	--	--	--	--	--	--	--	--	--	--	--	--	<10	20	--
CC-SO-TF2-15	8/23/2000	0.5	--	<26	480	--	--	--	--	--	--	--	<0.14	<0.69	0.3	<0.14	--	<0.14	<10	**79**	0.087
CC-SO-TF2-15	8/21/2000	1.5	--	<26	97	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	**41**	--
CC-SO-TF3-05	8/23/2000	2	--	<27	220	--	--	--	--	--	--	--	<0.035	0.23	<0.035	<0.035	--	0.026 J	<11	20	<0.053
CC-SO-TF3-05	8/21/2000	3	--	78	89	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	14	--
CC-SO-TF3-06	8/23/2000	2	--	<27	520	--	--	--	--	--	--	--	<0.14	<0.71	<0.14	<0.14	--	<0.14	<11	**30**	0.29
CC-SO-TF3-06	8/21/2000	3	--	370	1300	--	--	--	--	--	--	--	--	--	--	--	--	--	<12	**290**	--
CC-SO-TF3-07	8/23/2000	1.5	--	<28	700	--	--	--	--	--	--	--	<0.11	<0.55	0.69	<0.11	--	<0.11	**39**	**220**	0.3
CC-SO-TF3-07	8/21/2000	3	--	65	360	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	**240**	--
CC-SO-TF3-08	8/23/2000	1.5	--	<28	900	--	--	--	--	--	--	--	0.087 J	1.4	1.9	<0.11	--	0.23	<11	**1600**	0.93
CC-SO-TF3-08	8/21/2000	3	--	**3000**	1600	--	--	--	--	--	--	--	--	--	--	--	--	--	**180**	**2000**	--
CC-SO-TF4-01	8/23/2000	0.5	--	<26	570	--	--	--	--	--	--	--	<0.14	<0.70	<0.14	<0.14	--	<0.14	<11	**120**	0.33
CC-SO-TF4-01	8/21/2000	1.5	--	250	1500	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	**240**	--
CC-SO-TF4-02	8/23/2000	0.5	--	<27	1300	--	--	--	--	--	--	--	<0.14	1.9	0.37	<0.14	--	0.54	<11	**230**	0.73
CC-SO-TF4-02	8/21/2000	1.5	--	<140	1500	--	--	--	--	--	--	--	--	--	--	--	--	--	**50**	**590**	--
CC-SO-TF4-03	8/23/2000	0.5	--	<27	430	--	--	--	--	--	--	--	0.08 J	<0.72	<0.14	<0.14	--	0.092 J	<11	**100**	0.31
CC-SO-TF4-03	8/21/2000	1.5	--	190	1400	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	**610**	--
CC-SO-TF4-04	8/23/2000	0.5	--	<27	460	--	--	--	--	--	--	--	<0.14	<0.71	<0.14	<0.14	--	0.081 J	<11	**140**	0.31
CC-SO-TF4-04	8/21/2000	1.5	--	<27	660	--	--	--	--	--	--	--	--	--	--	--	--	--	<11	**180**	--
CC-SO-WT-09	8/23/2000	0.5	--	<26	550	--	--	--	--	--	--	--	<0.14	<0.70	<0.14	<0.14	--	<0.14	<11	**44**	<0.053
CC-SO-WT-09	8/21/2000	1.5	--	<37	760	--	--	--	--	--	--	--	--	--	--	--	--	--	<15	**56**	--
CC-SO-WT-10	8/23/2000	0.5	--	<28	**3800**	--	--	--	--	--	--	--	<0.38	3.5	<0.38	<0.38	--	<0.38	<11	**200**	<0.057
CC-SO-WT-10	8/21/2000	1.5	--	<51	210	--	--	--	--	--	--	--	--	--	--	--	--	--	<20	**31**	--

Notes:
-- = No data available
ND = Not detected, reporting limit not available
<# = Not detected above the reporting limit shown to the right of "<"

Acronyms:
PCBs = Polychlorinated Biphenyls
B(a)P = Benzo(a)pyrene
TCE = Trichloroethene
PCE = Tetrachloroethene

TABLE 12
SUMMARY SOIL DATA - 1514 TAYLOR WAY PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs							SVOCs						Metals		PCBs
Location	**Date**	**Depth (ft)**	**Gas**	**Diesel**	**Oil**	**Benzene**	**Ethyl-benzene**	**TCE**	**Toluene**	**PCE**	**Vinyl Chloride**	**Total Xylenes**	**B(a)P**	**bis(2-Ethylhexyl) phthalate**	**Butyl Benzyl Phthalate**	**Diethyl Phthalate**	**1,4-Dioxane**	**Hexachloro-butadiene**	**Arsenic**	**Lead**	**Total PCBs**
		Units	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
		Screening Level	**30**	**2000**	**2000**	**0.0274**	**6.05**	**0.0254**	**4.52**	**0.0499**	**0.00167**	**13.1**	**5.14**	**13.4**	**12.8**	**72.2**	**10**	**0.605**	**7.3**	**24**	**1**
TP-1	2005	3.5	<3	650	**2300**	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	4.6	<1.00	<0.80	<.800	--	<0.010	--	--	--
TP-2	1/24/2005	2.8	<3	<25	73	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.010	6.6	**41**	--
TP-3	1/24/2005	1.0	<3	<25	280	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	0.16	<0.10	<0.100	--	<0.010	--	--	--
TP-4	1/24/2005	1.1	<3	<25	1700	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.4	<.910	<0.70	<0.700	--	<0.700	**21**	**520**	--
	1/25/2005	3.6	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.7	<.520	<0.40	<0.400	--	<0.400	**130**	**62**	--
TP-5	1/24/2005	3.0	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<4.3	**31**	--
TP-6	1/24/2005	1.0	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.700	**12**	3.1	--
SB-7	1/28/2005	15.3	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	**9.7**	<3.2	--
SB-8	1/28/2005	15.4	<3	93	100	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	0.02	0.75	<0.260	<0.20	<0.200	--	<0.200	**13**	**70**	--
TP-9	1/26/2005	3.6	<3	89	260	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	2.7	<.390	<0.30	<0.300	--	<0.300	**25**	**77**	--
TP-10	1/25/2005	1.8	<3	44	100	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	0.13	<.130	<0.10	<0.100	--	<0.100	<4.0	**78**	--
TP-11	1/25/2005	2.5	<3	81	230	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	1.1	0.41	<0.30	<0.300	--	<0.300	**25**	**120**	--
	1/25/2005	3.5	<3	1400	1900	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.3	<0.390	<0.30	<0.300	--	<0.300	3.9	8.7	ND
TP-12	1/26/2005	2.2	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<2.2	<2.2	--
TP-13	1/25/2005	2.5	<3	54	220	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	4.3	22	--
TP-14	1/26/2005	1.8	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<3.4	<3.4	--
TP-15	1/25/2005	1.4	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<4.0	<4.0	--
TP-16	1/25/2005	3.9	19	36	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	**12**	**220**	--
TP-17	1/24/2005	2.3	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<4.6	<4.6	--
	1/24/2005	1.8	<3	<25	<50	<0.01	<0.100	<0.01	<0.01	<0.01	<.010	<0.010	<0.1	<.130	<0.10	<0.100	--	<0.010	5.3	<5	ND
TP-18	1/25/2005	4.3	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<4.9	<4.9	--
TP-19	1/25/2005	5.3	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	--	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<4.2	<4.2	--
TP-20	1/26/2005	2.0	<3	40	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<2.5	<2.5	--
TP-21	1/25/2005	2.2	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	<3.2	<3.2	--
TP-22	1/25/2005	3.8	<3	<25	<50	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	<0.1	<.130	<0.10	<0.100	--	<0.100	**7.6**	<4.5	--
TP-23	1/26/2005	10.0	<3	380	780	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	--	--	--	--	--	<0.010	**25**	**190**	--
TP-24	1/26/2005	10.0	<3	190	460	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	--	--	--	--	--	<0.010	**17**	**150**	--
TP-41	1/26/2005	1.6	--	--	--	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	--	--	--	--	--	<0.010	**23**	**58**	--
TP-42	1/26/2005	1.3	--	--	--	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	--	--	--	--	--	<0.010	**11**	**35**	--
TP-46	1/26/2005	1.8	--	--	--	<0.01	<0.010	<0.01	<0.01	<0.01	<.010	<0.020	--	--	--	--	--	<0.010	--	--	--
TP-49	1/26/2005	2.3	--	--	--	<0.01	<0.010	<0.01	<0.01	<0.01	<0.010	<0.020	--	--	--	--	--	<0.010	--	--	ND
FS-TP-1	7/12/2006	4-10	--	310	800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-2	7/12/2006	4-8	--	340	1200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-3	7/12/2006	<9.5	--	310	1300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-4	7/12/2006	3-10	--	410	1100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-5	7/12/2006	<7	--	230	960	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-6	7/12/2006	<10	--	270	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-7	7/12/2006	<9.5	--	400	1300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FS-TP-8	7/12/2006	<9	--	440	1600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
-- = No data available
ND = Not detected, reporting limit not available
<# = Not detected above the reporting limit shown to the right of "<"

Abbreviations:
PCBs = Polychlorinated Biphenyls
B(a)P = Benzo(a)pyrene
TCE = Trichloroethene
PCE = Tetrachloroethene

TABLE 13
SUMMARY SOIL DATA - STERICYCLE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Location	Date	Depth (ft)	Gas	Diesel	Oil	B(a)P	bis(2-Ethylhexyl) phthalate	TCE	Toluene	PCE	Benzene	Butyl Benzyl Phthalate	Diethyl Phthalate	Ethyl-benzene	Hexachloro-butadiene	Vinyl Chloride	Total Xylenes	1,4-Dioxane	Arsenic	Lead	Total PCBs
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Screening Levels	**30**	**2000**	**2000**	**5.14**	**13.4**	**0.0254**	**4.52**	**0.0499**	**0.0274**	**12.8**	**72.2**	**6.05**	**0.605**	**0.00167**	**13.1**	**10**	**7.3**	**24**	**1**
AA-1	1/17/2001	9	**136 J**	**6450**	**4760**	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.41 J**	--	--
CTMW-1	6/2/1987	3.5	--	--	--	<0.19	0.0048	<3.0	<3.3	<2.6	<3.7	<.0018	<0.00035	4.6	<8.8	<8.0	--	--	1.8	**78**	--
	6/2/1987	8.5	--	--	--	<0.15	.00075 J	--	--	--	--	<.0014	<.00027	--	<.00062	--	--	--	--	--	--
CTMW-10	9/26/2000	0	<0.30	<0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/28/1987	6.5	--	--	--	<0.44	<0.00044	<0.060	<0.060	<0.060	<0.060	<0.00044	<0.00044	<0.060	<0.44	<0.15	--	--	1.2	1.4	ND
CTMW-11	11/27/1987	6.5	--	--	--	<0.43	<0.00043	<0.060	<0.060	<0.060	<0.060	<0.00043	<0.00043	<0.060	<0.43	<0.15			6.4	4.4	ND
	11/27/1987	11	--	--	--	--	<0.010	--	--	--	--	<0.010	<0.010	--	<0.010	--	--	--	3.6	5.8	--
CTMW-12	9/26/2000	0	<0.30	<0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/1987	25.5	--	--	--	<0.38	<0.00038	<0.060	<0.060	<0.060	<0.060	<0.00038	<0.00038	<0.60	<0.38	<0.15	--	--	2.0	1.2	ND
	11/27/1987	35.5	--	--	--	<0.44	<0.00044	<0.060	<0.060	<0.060	<0.060	<0.00044	<0.00044	<0.60	<0.44	<0.15	--	--	1.6	1.0	ND
CTMW-13	5/9/1989	0	--	--	--	<0.034	<0.000034	ND	ND	ND	ND	<0.000034	<0.000034	ND	<0.067	ND	--	--	--	--	--
	5/9/1989	0.5	--	--	--	<0.046	<0.000046	<0.00060	<0.00080	<0.00050	<0.0011	<0.000046	<0.00046	<0.00080	<0.092	<0.0021	--	--	1.8	6.2	--
	5/9/1989	2.5	--	--	--	<0.055	<0.000055	<0.00070	<0.00090	<0.00060	<0.0011	<0.000055	<0.000055	<0.00090	<0.11	<0.0022	--	--	1.8	7.2	--
	5/9/1989	4.5	--	--	--	--	--	<0.00090	<0.00090	<0.00090	<0.00090	--	--	<0.00090	--	<0.0028	--	--	2.1	**175**	--
	5/9/1989	7.5	--	--	--	--	--	**0.036**	0.12	**2.0**	0.020	--	--	0.033	--	<0.0064	--	--	**11.8**	**1020**	--
CTMW-14	5/10/1989	0.5	--	--	--	<0.054	<0.000054	<0.0011	<0.0011	<0.0011	<0.0011	<0.000054	<0.000054	<0.0011	<0.11	<0.0032	--	--	--	--	--
	5/10/1989	2.5	--	--	--	<0.046	<0.000046	<0.0010	0.0012	<0.0010	<0.0010	<0.000046	<0.000046	0.0003	<0.091	<0.0031	--	--	4.8	8.7	--
	5/10/1989	4.5	--	--	--	--	--	<0.00090	0.00040	<0.00090	<0.00090	--	--	<0.00090	--	<0.0027	--	--	3.5	8.0	--
	5/12/1989	9	--	--	--	--	--	<0.00070	<0.0010	<0.00060	<0.0012	--	--	<0.0010	--	<0.0024	--	--	3.9	**44.8**	--
CTMW-15	5/16/1989	0.5	--	--	--	<0.058	<0.000058	<0.00070	0.00060	<0.00050	<0.0011	<0.000058	<0.000058	<0.00090	<0.12	<0.0022	--	--	4.0	10.8	--
	5/16/1989	2.5	--	--	--	<0.063	<0.000063	<0.00070	<0.00090	<0.00060	<0.0012	<0.000063	<0.000063	<0.00090	<0.12	<0.0023	--	--	2.5	<6	--
	5/16/1989	3	--	--	--	--	--	<0.00070	<0.0010	<0.00060	<0.0012	--	--	<0.0010	--	<0.0025	--	--	4.2	14.8	--
	5/16/1989	7.5	--	--	--	--	--	<0.00060	<0.00080	<0.00050	<0.0011	--	--	<0.00090	--	<0.0021	--	--	2.8	7.7	--
CTMW-17D	1/10/2001	5.5	<5.00	67.5	313	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	--	--	4.76	14.9	--
	1/10/2001	15	<16.8	108	131	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100 J	--	<0.100 J	--	--	5.65	**94.9**	--
	1/11/2001	27.5	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	--	--	0.637	1.5	--
CTMW-19	6/20/2000	2.5	<5.00	<10.0	--	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	<0.100	<0.100	<0.100	--	2.50 J	4.56	--
CTMW-2	5/27/1987	3.5	--	--	--	--	--	<0.33	<0.36	<0.29	<0.40	--	--	0.11 J	--	<0.88	--	--	1.6	14	--
CTMW-2	5/22/1987	8.5	--	--	46	<0.072	<0.00055	--	--	--	--	<0.00067	<0.00013	--	<0.30	--	--	--	--	--	--
CTMW-20	6/20/2000	2.5	<5.00	<10	--	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	<0.100	<0.100	<0.100	--	2.49 J	8.57	--
CTMW-21	6/20/2000	5	--	--	--	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	<0.100	<0.100	<0.100	--	--	--	--
CTMW-3	5/29/1987	3.5	--	--	**4582**	<0.087	0.00022 J	<0.35	<0.38	<0.30	<0.43	<0.00082	0.00063	<0.53	<0.37	<0.93	--	--	1.5	19	--
CTMW-4	5/28/1987	3.5	--	--	--	<0.11	<0.00098	<0.29	<0.31	<0.25	<0.35	<0.0010	<0.00020	<0.44	<0.46	<0.77	--	--	3.3	**82**	--
CTMW-5	5/29/1987	3.5	--	--	615	<0.095	0.0018	<0.33	<0.36	<0.29	<0.40	<0.00089	<0.00017	<0.50	<0.40	<0.88	--	--	12	**178**	--
CTMW-6	9/25/2000	0	<0.30	<0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/1/1987	3.5	--	--	--	<0.090	0.066	<0.29	0.21	<0.25	<0.35	0.017	<0.00017	0.25 J	<0.38	<0.77	--	--	16	**6720**	--
CTMW-7	9/25/2000	0	<0.30	<0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/1987	11.5	--	--	--	<0.025	0.13	<0.060	0.14	0.089	<0.060	<0.000025	<0.000025	0.81	<0.025	<0.15	--	--	3.6	**380**	**4.1**
	11/24/1987	21.5	--	--	--	<0.50	<0.00050	<0.060	<0.060	<0.060	<0.060	<0.00050	<0.00050	<0.060	<0.50	<0.15	--	--	2.2	2.0	ND
	11/24/1987	32.5	--	--	--	<0.53	<0.00053	<0.060	<0.060	<0.060	<0.060	<0.00053	<0.00053	<0.060	<0.53	<0.15	--	--	3.8	1.6	ND
CTMW-9	11/28/1987	21.5	--	--	--	<0.43	<0.00043	<0.060	<0.060	<0.060	<0.060	<0.00043	<0.00043	<0.060	<0.43	<0.015	--	--	1.2	1.0	ND
	11/28/1987	31.5	--	--	--	<0.50	<0.00050	<0.060	<0.060	<0.060	<0.060	<0.00050	<0.00050	<0.060	<0.50	<0.15	--	--	4.0	1.6	ND
EMW-3R	6/19/2012	4-5.5		10.7	48.1						ND								3.2	2.28	
GP-1	10/12/1999	3	<0.30	38	--	<0.63	<0.0031	<0.25	<0.25	<0.25	<0.25	<0.00063	<0.00063	<0.25	<0.63	<0.50	--	--	--	8.1	--
GP-10	10/14/1999	6	<0.30	21	--	<0.036	<0.00018	<0.25	<0.25	<0.25	<0.25	<0.000036	<0.00036	<0.25	<0.25	<0.50	--	--	--	--	--
GP-12	10/13/1999	6	<1.5	0.94	--	<0.040	0.00025 J	<0.25	<0.25	<0.25	<0.25	<0.000040 J	<0.000040	<0.25	<0.25	<0.50	--	--	--	--	ND

TABLE 13
SUMMARY SOIL DATA - STERICYCLE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Location	Date	Depth (ft)	Gas	Diesel	Oil	B(a)P	bis(2-Ethylhexyl) phthalate	TCE	Toluene	PCE	Benzene	Butyl Benzyl Phthalate	Diethyl Phthalate	Ethyl-benzene	Hexachloro-butadiene	Vinyl Chloride	Total Xylenes	1,4-Dioxane	Arsenic	Lead	Total PCBs
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Screening Levels	**30**	**2000**	**2000**	**5.14**	**13.4**	**0.0254**	**4.52**	**0.0499**	**0.0274**	**12.8**	**72.2**	**6.05**	**0.605**	**0.00167**	**13.1**	**10**	**7.3**	**24**	**1**
GP-16	10/14/1999	6	<0.30	0.98	--	<0.037	<0.00018	<0.25	<0.25	<0.25	<0.25	<0.000037	<0.000037	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-17	10/13/1999	6	**1200**	**2000**	--	<0.041	0.00027	<0.25	<0.25	<0.25	<0.25	<0.000041	<0.000041	<0.00025	<0.25	<0.50	--	--	--	--	--
GP-18	10/13/1999	3	<1.5	43	--	<0.038	0.00048	<0.25	<0.25	<0.25	<0.25	<0.000038	<0.000038	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-2	10/12/1999	6	<1.5	71	--	<0.038	<0.00019	<0.25	<0.25	<0.25	<0.25	<0.000038	<0.000038	<0.25	<0.25	<0.50	--	--	--	**27.3**	ND
GP-23	10/14/1999	6	<0.30	11	--	<0.037	<0.00018	<0.25	<0.25	<0.25	<0.25	<0.000037	<0.000037	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-24	10/13/1999	6	<1.5	31	--	<0.045	<0.00023	<0.25	<0.25	<0.25	<0.25	<0.00045	<0.00045	<0.25	<0.25	<0.50	--	--	--	--	--
GP-25	10/13/1999	6	<1.5	3.2	--	<0.043	<0.00022	<0.25	<0.25	<0.25	<0.25	<0.000043	<0.000043	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-30	10/14/1999	6	0.50 J	15	--	<0.046	0.00033	<0.25	<0.25	<0.25	<0.25	0.00039	<0.00046	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-31	10/13/1999	6	<38	470	--	<0.045	0.00085	<0.25	0.29	<0.25	<0.25	0.00088	<0.000045	<0.25	<0.25	<0.50	--	--	--	--	--
GP-32	10/13/1999	6	**150**	**4000**	--	<0.044	0.0038	<0.25	<0.25	<0.25	<0.25	0.0011	<0.000044	<0.25	<0.25	<0.50	--	--	--	--	0.567
GP-33	10/14/1999	6	<0.30	5.1	--	<0.046	<0.00023	<0.25	<0.25	<0.25	<0.25	<0.000046	<0.000046	<0.25	<0.25	<0.50	--	--	--	--	--
GP-37	10/15/1999	6	<1.5	15	--	<0.038	<0.00019	<0.25	<0.25	<0.25	<0.25	<0.000038	<0.000038	<0.25	<0.25	<0.50	--	--	--	--	--
GP-38	10/15/1999	6	<1.5	38	--	<0.039	<0.00020	<0.25	<0.25	<0.25	<0.25	<0.000039	<0.000039	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-39	10/15/1999	6	<1.5	120	--	0.061	<0.00018	<0.25	<0.25	<0.25	<0.25	<0.000036	<0.000036	<0.25	<0.25	<0.50	--	--	--	--	--
GP-4	10/12/1999	8	**1400**	**13000**	--	<0.64	<0.0032	<0.25	0.21	<0.25	0.34	<0.00064	<0.00064	2.6	<0.25	<0.50	--	--	--	**114**	ND
GP-40	10/14/1999	6	<0.30	9.0	--	<0.049	<0.00025	<0.25	<0.25	<0.25	<0.25	<0.000049	<0.000049	<0.25	<0.25	<0.50	--	--	--	--	ND
GP-6	10/12/1999	3	3.1	15	--	<0.64	<0.0032	<0.25	<0.25	<0.25	<0.25	<0.00064	<0.00064	<0.25	<0.25	<0.50	--	--	--	5.0	ND
GP-7	10/12/1999	6	<1.5	1.6	--	<0.039	<0.00019	<0.25	<0.25	<0.25	<0.25	<0.000039	<0.000039	<0.25	<0.25	<0.50	--	--	--	1.5	--
MW-1	12/21/2001	0	**18900**	**401000**	**206000**	**9.6**	<0.10	<100	<0.0200	<100	<0.0200	<0.10	<0.10	<0.10	<100	<100	--	--	--	--	ND
MW-1	3/27/2002		**18900 DJ**	**401000 D**	**206000 D**	**9.6 D**	--		<0.0200		<0.0200	--	--	**45.2 D**	--	--	--	--			
PZ-6	6/15/1999	4	--	--	--	<0.33	0.21	<0.010	0.65	<0.0050	0.11	0.025	<0.00033	0.41	<0.33	<0.0050	--	--	--	--	**14.69**
	6/15/1999	13.5	0.70	190	--	<0.033	0.002	<9.4	**20**	<4.7	<4.7	0.00041	<0.000033	11	<4.7	<4.7	--	--	3.3	16.8	--
PZ-7	1/10/2001	3	<5.00	11.1 J	33.3	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	--	--	2.42	12.6	--
	1/10/2001	10.5	6.13	767	**2530**	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.101	--	<0.100	--	--	3.56	**47.1**	--
PZ-8	1/9/2001	2.5	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.102	--	<0.100	--	--	3.32	9.17	--
	1/9/2001	6	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.103	--	<0.100	--	--	1.45	1.47	--
PZ-9	1/9/2001	4	<5.00	113	577	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.104	--	<0.100	--	--	**11.9**	**25.1**	--
	1/9/2001	8	<5.00	90.8	287	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.105	--	<0.100	--	--	**10.3**	**53.9**	--
SEA-1	5/13/1987	0	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	4.4	**587**	--
	5/13/1987		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	**31**	--
	5/14/1987	2.5	--	--	**34000**	<0.080	0.0018	<0.38	**9.9**	1.2	<0.46	<0.00076	<0.00015	1.5	<0.34	<0.99	--	--	1.1	**54**	--
SEA-10	5/19/1987	2.5	--	--	--	<0.060	<0.00059	<0.29	<0.31	<0.25	<0.35	<0.00061	<0.00061	<0.43	<0.27	<0.76	--	--	1.4	ND	--
SEA-11	5/18/1987	2.5	--	--	--	<0.070	0.002	<0.31	**7.9**	<0.26	<0.37	<0.00066	<0.00013	2.6	<0.00030	<0.00081	--	--	1.7	17	--
SEA-12	5/18/1987	2.5	--	--	--	<0.080	0.00028 J	<0.37	0.098	<0.32	<0.45	<0.00072	<0.00014	0.45 J	<0.32	<0.98	--	--	0.95	ND	--
SEA-13	5/19/1987	2.5	--	--	--	<0.070	0.0011	<0.30	0.53	<0.25	<0.36	<0.00063	<0.00012	1.7	<0.28	<0.98	--	--	2	ND	--
SEA-14	5/19/1987	4.7	--	--	--	3.5	0.033	**19**	**78**	**80**	6.6	<0.00060	<0.00012	2.3	<0.27	<0.85	--	--	**32.2**	**909**	--
SEA-15	5/19/1987	2.5	--	--	13	<0.070	--	<0.29	<0.31	<0.25	<0.36	--	--	--	--	--	--	--	1.7	ND	--
SEA-16	5/19/1987	2.5	--	--	--	<0.070	--	<0.27	0.091	<0.23	<0.33	--	--	--	--	--	--	--	1.4	ND	--
SEA-17	5/19/1987	2.5	--	--	--	<0.070	--	<0.32	<0.34	<0.27	<0.38	--	--	--	--	--	--	--	1.6	ND	--
SEA-18	5/21/1987	2.8	--	--	--	<0.090	1.6	<0.38	<0.41	<0.33	<0.46	--	--	--	--	--	--	--	5.3	**233**	--
	5/21/1987	4.5	--	--	--		--	<0.32	<0.34	<0.27	<0.39	--	--	--	--	--	--	--	--	--	--
SEA-19	5/21/1987	2.5	--	--	51	<0.065	--	<0.29	<0.31	<0.25	<0.35	--	--	--	--	--	--	--	2.9	**29**	--

DOF DALTON OLMSTED FUGLEVAND

TABLE 13
SUMMARY SOIL DATA - STERICYCLE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Location	Date	Depth (ft)	Gas	Diesel	Oil	B(a)P	bis(2-Ethylhexyl) phthalate	TCE	Toluene	PCE	Benzene	Butyl Benzyl Phthalate	Diethyl Phthalate	Ethyl-benzene	Hexachloro-butadiene	Vinyl Chloride	Total Xylenes	1,4-Dioxane	Arsenic	Lead	Total PCBs
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Screening Levels	**30**	**2000**	**2000**	**5.14**	**13.4**	**0.0254**	**4.52**	**0.0499**	**0.0274**	**12.8**	**72.2**	**6.05**	**0.605**	**0.00167**	**13.1**	**10**	**7.3**	**24**	**1**
SEA-2	5/14/1987	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	**32**	--
SEA-2	5/14/1987	2.5	--	--	**25500**	<0.070	--	<0.30	<0.32	1.8	<0.37	--	--	--	--	--	--	--	1.7	**72**	--
SEA-20	5/21/1987	2.5	--	--	--	<0.069	--	<0.27	1.1	<0.23	<0.32	--	--	--	--	--	--	--	2.2	ND	--
SEA-21	5/21/1987	2.5	--	--	--	<0.11	--	<0.44	1.8	0.75	<0.53	--	--	--	--	--	--	--	15	**3570**	--
	5/21/1987	3.8	--	--	--		--	<0.47	3.5	<0.40	<0.57	--	--	--	--	--	--	--	--	--	--
SEA-22	5/21/1987	2.6	--	--	--	<0.069	--	<0.29	1.1	<0.24	<0.35	--	--	--	--	--	--	--	2	ND	--
SEA-23	5/21/1987	2.5	--	--	--	<0.070	--	<0.29	1.0	<0.26	<0.35	--	--	--	--	--	--	--	1.8	**110**	--
SEA-24	5/22/1987	2.5	--	--	--	<0.081	--	<0.90	<0.90	<0.80	<1.1	--	--	--	--	--	--	--	3.1	**1040**	--
SEA-25	5/22/1987	2.5	--	--	--	<0.072	--	<1.5	<1.6	<1.3	<1.8	--	--	--	--	--	--	--	1.2	**67**	--
SEA-26	5/22/1987	2.5	--	--	--	<0.080	--	<0.32	<0.34	<0.27	<0.39	--	--	--	--	--	--	--	1.4	ND	--
SEA-27	5/22/1987	2	--	--	--	<0.073	--	<0.29	<0.31	<0.25	<0.35	--	--	--	--	--	--	--	3.5	ND	--
SEA-28	5/22/1987	2	--	--	--	<0.072	--	<0.27	<0.29	<0.23	<0.33	--	--	--	--	--	--	--	1	**25**	--
SEA-29	5/22/1987	2.5	--	--	**5742**	1.3	--	<0.34	0.34	<0.29	<0.41	--	--	--	--	--	--	--	4.2	**347**	--
SEA-3	5/14/1987	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.4	**250**	--
SEA-3	5/14/1987	2.5	--	--	**33600**	<0.070	--	<0.31	7.1	0.68	<0.38	--	--	--	--	--	--	--	1.2	23	--
SEA-30	5/22/1987	3	--	--	481	<0.069	--	<0.29	0.18	<0.25	<0.36	--	--	--	--	--	--	--	**32**	**189**	--
SEA-31	5/22/1987	2.8	--	--	35.5	<0.072	--	<0.29	<0.31	<0.24	<0.35	--	--	--	--	--	--	--	2.8	14	--
SEA-32	5/22/1987	2.5	--	--	15.8	<0.072	--	<0.28	<0.30	<0.24	<0.34	--	--	--	--	--	--	--	1.4	ND	--
SEA-4	5/14/1987	0	--	--	--		--					--	--	--	--	--	--	--	1.8	ND	--
	5/14/1987	3.5	--	--	14.8	<0.070	--	<0.30	<0.32	<0.26	<0.36	--	--	--	--	--	--	--	3.5	ND	--
SEA-5	5/15/1987	0	--	--	--		--					--	--	--	--	--	--	--	3.4	**101**	--
	5/15/1987	4	--	--	**20200**	<0.080	--	<0.74	2.1	<0.63	1.0	--	--	--	--	--	--	--	1.7	**50**	--
SEA-6	5/15/1987	0	--	--	--		--					--	--	--	--	--	--	--	2.2	**32**	--
	5/15/1987	4.5	--	--	**13900**	<0.080	--	<0.28	0.66	<0.24	0.25 J	--	--	--	--	--	--	--	1.9	16	--
SEA-7	5/18/1987	2.5	--	--	**24100**	<0.070	--	<0.31	0.55	<0.26	<0.37	--	--	--	--	--	--	--	1.5	12	--
SEA-8	5/18/1987	2.5	--	--	**51700**	<0.070	--	<0.64	**33**	**2.3**	0.45 J	--	--	--	--	--	--	--	2.2	**310**	--
SEA-9	5/18/1987	2.5	--	--	**26100**	<0.070	--	<0.34	2.5	0.63	<0.41	--	--	--	--	--	--	--	1	20	--
SRI-1	1/12/2001	20	**54.7**	**4810**	**6960**	--	--	**0.289**	<0.100	**11.8**	<0.100	--	--	<0.100	--	<0.100	<0.200	--	**24.8**	**95.2**	--
SRI-10	1/9/2001	3	<5.00	<84.3	81.9	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	2.45	4.51	--
SRI-11	1/11/2001	8	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	3.4	**198**	--
SRI-12	1/10/2001	8	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	2.96	4.22	--
SRI-13	1/11/2001	12	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	0.887	0.841	--
SRI-14	1/11/2001	8	<5.00	868	**2120**	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	4.78	22.5	--
SRI-15	1/16/2001	20	9.24	1940	**4460**	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	**8.36**	**409**	--
SRI-16	1/18/2002	4	<5.00	19.6	66	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	6.27	8.6	--
SRI-17	1/16/2002	4	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	1.64	1.2	--
SRI-18	1/16/2002	3	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	1.49	1.14	--
SRI-19	1/17/2002	4	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	0.974	1.41	--
SRI-2	1/16/2001	20	16.8	70	76.6	--	--	<0.100	<0.100	<0.100	<0.100	--	--	0.519	--	<0.100	0.607	--	3.49	**38.7**	--
SRI-20	1/8/2002	6	**76**	**8500**	**14400**	--	--	--	--	--	--	--	--	--	--	--	--	--	**34.4**	**44800**	--
SRI-21	1/14/2002	4	<5.00	702	1790	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	**17**	**2170**	--
SRI-22	1/7/2002	4	<5.00	250	502	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	0.316	ND	**19.3**	**1440**	--
SRI-23	1/8/2002	4	<5.00	15	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	2.82	8.44	--
SRI-24	1/9/2002	4	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	3.64	16	--
SRI-25	1/9/2002	4	<5.00	119	450	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	3.53	9.31	--

TABLE 13
SUMMARY SOIL DATA - STERICYCLE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Location	Date	Depth (ft)	Gas	Diesel	Oil	B(a)P	bis(2-Ethylhexyl) phthalate	TCE	Toluene	PCE	Benzene	Butyl Benzyl Phthalate	Diethyl Phthalate	Ethyl-benzene	Hexachloro-butadiene	Vinyl Chloride	Total Xylenes	1,4-Dioxane	Arsenic	Lead	Total PCBs
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Screening Levels	**30**	**2000**	**2000**	**5.14**	**13.4**	**0.0254**	**4.52**	**0.0499**	**0.0274**	**12.8**	**72.2**	**6.05**	**0.605**	**0.00167**	**13.1**	**10**	**7.3**	**24**	**1**
SRI-3	1/15/2001	11	<5.00	10.6	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	4.35	**29.5**	--
SRI-32	2/3/2002	4	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	1.67	1.24	--
SRI-33	2/2/2002	2	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	1.22	0.983	--
SRI-34	2/2/2002	4	<5.00	<10.0	<25.0	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	ND	1.3	1.03	--
SRI-4	1/15/2001	8	<5.00	28.6	45.3	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	5.65	**43**	--
SRI-5	1/19/2001	8	**39.8**	**33000**	**51600**	--	--	<0.100	0.523	<0.100	<0.100	--	--	0.45	--	<0.100	0.549	--	6.17	**91.6**	--
SRI-7	1/8/2001	8	5.69	2460	**5000**	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	**14.2**	**1780**	--
	1/8/2001	15	<5.00	467	**2220**	--	--	<0.100	<0.100	<0.100	<0.100	--	--	<0.100	--	<0.100	<0.200	--	2.04	**93.7**	--

Notes:
-- = No data available
ND = Not detected, reporting limit not available
<# = Not detected above the reporting limit shown to the right of "<"

Abbreviations:
PCBs = Polychlorinated Biphenyls
B(a)P = Benzo(a)pyrene
TCE = Trichloroethene
PCE = Tetrachloroethene

TABLE 14
SUMMARY SOIL DATA - 1205 ALEXANDER AVENUE AND 1300 TAYLOR WAY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs							SVOCs						Metals		PCBs
Location	**Date**	**Depth (ft)**	**Gas**	**Diesel**	**Oil**	**Benzene**	**Ethyl-benzene**	**TCE**	**Toluene**	**PCE**	**Vinyl Chloride**	**Total Xylenes**	**B(a)P**	**bis(2-Ethylhexyl) phthalate**	**Butyl Benzyl Phthalate**	**Diethyl Phthalate**	**1,4-Dioxane**	**Hexachloro-butadiene**	**Arsenic**	**Lead**	**Total PCBs**
		Units	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
		Screening Levels	**30**	**2000**	**2000**	**0.0274**	**6.05**	**0.0254**	**4.52**	**0.0499**	**0.00167**	**13.1**	**5.14**	**13.4**	**12.8**	**72.2**	**10**	**0.605**	**7.3**	**24**	**1**
SRI-16	1/18/2002	4	<5.00	19.6	66 J	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	6.27	8.6	--
SRI-17	1/16/2002	4	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	1.64	1.2	--
SRI-18	1/16/2002	3	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	1.49	1.14	--
SRI-19	1/17/2002	4	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	0.974	1.41	--
SRI-32	2/3/2002	4	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	1.67 J	1.24	--
SRI-33	2/2/2002	2	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	1.22 J	0.983	--
SRI-34	2/2/2002	4	<5.00	<10.0	<25.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	--	--	--	--	ND	--	1.3 J	1.03	--
TP010203	4/1/1991	Composite	--	--	--	--	--	--	--	--	--	--	--	0.047	--	--	--	--	1.6	<1.3	ND
TP040507	4/1/1991	Composite	--	--	--	--	--	--	--	--	--	--	--	0.12	--	--	--	--	1.3	1.3	ND
TP08091011	4/1/1991	Composite	--	--	--	--	--	--	--	--	--	--	--	<0.17	--	--	--	--	1.8	6.5	ND
TP121314	4/1/1991	Composite	--	--	--	--	--	--	--	--	--	--	--	<0.17	--	--	--	--	1.7	3.6	ND

Notes:
-- = No data available
<# = Not detected above the reporting limit shown to the right of "<"
ND = not detected, reporting limit not available
Abbreviations:
PCBs = Polychlorinated Biphenyls
B(a)P = Benzo(a)pyrene
TCE = Trichloroethene
PCE = Tetrachloroethene

TABLE 15
SUMMARY SOIL DATA - PSE GAS ALIGNMENT
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs							SVOCs						Metals		PCBs
Location	**Date**	**Depth (ft)**	**Gas**	**Diesel**	**Oil**	**Benzene**	**Ethyl-benzene**	**TCE**	**Toluene**	**PCE**	**Vinyl Chloride**	**Total Xylenes**	**B(a)P**	**bis(2-Ethylhexyl) phthalate**	**Butyl Benzyl Phthalate**	**Diethyl Phthalate**	**1,4-Dioxane**	**Hexachloro-butadiene**	**Arsenic**	**Lead**	**Total PCBs**
Units			**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Screening Level			**30**	**2000**	**2000**	**0.0274**	**0.00167**	**0.0254**	**4.52**	**0.0499**	**13.4**	**13.1**	5.14	**12.8**	**0.605**	**72.2**	**10**	**6.05**	**7.3**	**24**	**1**
BH-16 E-1	9/14/2015	31-31.5	<9.3	<39	<78	<0.00097	--	<0.00097	<0.0049	<0.00097	--	--	<0.052	--	--	--	--	--	<16	<7.8	--
EH-A-S	9/21/2015	7.5-9	<8	<35	<69	<0.02	--	--	<0.08	--	--	--	<0.0092	--	--	--	--	--	<14	<6.9	--
EH-A-S-DUP	9/21/2015	7.5-9	--	--	--	--	--	--	--	--	--	--	<0.0092	--	--	--	--	--	<14	<6.9	--
EH-A-V	9/21/2015	2.5-4	<6.5	<27	<53	<0.02	--	--	<0.065	--	--	--	<0.0071	--	--	--	--	--	<11	<5.3	--
EH-B-S	9/21/2015	7.5-9	<8.8	<35	<69	<0.02	--	--	<0.088	--	--	--	--	--	--	--	--	--	<14	<6.9	--
EH-B-S-DUP	9/21/2015	7.5-9	--	<35	<69	--	--	--	--	--	--	--	--	--	--	--	--	--	<14	<6.9	--
EH-B-V	9/21/2015	2.5-4	<6.8	<28	<56	<0.02	--	--	<0.068	--	--	--	--	--	--	--	--	--	<11	<5.6	--
EH-C-S	9/21/2015	7.5-9	<8	<33	<66	<0.0014	--	<0.0014	<0.0068	<0.0014	--	--	--	--	--	--	--	--	<13	<6.6	--
EH-C-V	9/21/2015	2.5-4	<6.4	110	200	<0.0012	--	<0.0012	<0.0061	<0.0012	--	--	--	--	--	--	--	--	<11	<5.6	--
EH-D-S	9/18/2015	7.5-9	<9.4	<35	95	<0.02	--	--	<0.094	--	--	--	<0.0094	--	--	--	--	--	<14	<7	--
EH-D-V	9/18/2015	2.5-4	<6.6	<26	<53	<0.02	--	--	<0.066	--	--	--	<0.007	--	--	--	--	--	<11	<5.3	--

Notes:
-- = No data available
ND = Not detected, reporting limit not available
<# = Not detected above the reporting limit shown to the right of "<"

Abbreviations:
PCBs = Polychlorinated Biphenyls
B(a)P = Benzo(a)pyrene
TCE = Trichloroethene
PCE = Tetrachloroethene

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow / Deep**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**1,4-Dioxane**	**bis-2-Ethylhexyl Phthalate (DEHP)**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**160[per Ecology]**	**0.046**
CCW-1A	3/4/1994	Shallow	**2000**	--	--	--	<1.0	**120**	1.2	**4.8**	7.6	**51**	**50**	--	--	--
	3/25/1999		**--**	**--**	--	2.2	<0.4	<0.4	<0.4	<0.4	2.6	<0.4	<0.4	--	--	--
	7/6/2001		**2290**	120	**1200**	**2.6**	ND	<1.0	0.32	ND	3.2	0.17	**0.4**	ND	--	ND
	December 2001		**1650**	112	**1500**	**2.17**	ND	640	ND	ND	3.47	ND	ND	ND	--	**0.6**
	March 2002		**1200**	76.5	**1460**	**2.48**	ND	ND	ND	ND	2.69	ND	ND	ND	--	ND
CCW-1B	3/4/1994	Shallow	**1400**	--	--	--	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--
	9/29/1998		**1700**		<1000	**4.4**	<0.4	0.51	<0.4	<0.4	1	<0.4	<0.4	**0.13**	--	**1.3**
	12/29/1998		**1250**	--	**660**	**4.2**	ND	ND	ND	ND	ND	ND	ND	<0.19	--	**0.94**
	3/25/1999		**1000**	**--**	**830**	**3.6**	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.095	--	<0.95
	7/16/2001		**1220**	<100	**940**	**3.3**	ND	0.07	ND	ND	0.18	ND	ND	ND	--	**2.5**
	September 2001		**1400**	ND	**696**	**3.37**	ND	ND	ND	ND	0.163	ND	ND	ND	--	**3.8**
	December 2001		**2100**	ND	**876**	**3.14**	ND	ND	ND	ND	ND	ND	ND	ND	--	**0.86**
	March 2002		**2570**	ND	**970**	**2.25**	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.99**
CCW-1C	July 2001	Deep	**2340**	<100	**1300**	ND	ND	0.27	ND	1.1	0.19	0.072	0.065	ND	--	**3**
	September 2001		**2340**	ND	**2620**	ND	ND	0.19	ND	ND	ND	ND	0.058	ND	--	**2.46**
	December 2001		**5040**	ND	**1480**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.44**
	March 2002		**17300**	ND	**1340**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.68**
CCW-2A	3/28/1994	Shallow	**6300**	--	--	--	1	**750**	500	**270**	**510**	**660**	92	--	--	**0.51**
	6/21/2000		**19400**	**6620**	**743**	**224**	6.38	**287**	**304**	**3070**	**228**	**1310**	**167**	--	--	--
	9/20/2000		**5000**	--	--	**190**	24	**4150**	**98.7**	**7660**	**157**	**4480**	**493**	--	--	--
	12/14/2000		**6830**	189	**1920**	**264**	30.6	**5420**	<200	**12000**	**227**	**5740**	**1360**	--	--	--
	7/12/2001		**4400**	**17000**	**2400**	**320**	4.9	**1500**	**340**	**12000**	**320**	**6100**	**170**	ND	--	**0.9**
	September 2001		**2420**	**13000**	**5070**	**271**	21.8	**4920**	**116**	**11200**	**226**	**5100**	**640**	ND	--	ND
	December 2001		**3060**	**6760**	**1800**	**245**	1.76	**302**	**297**	**932**	**235**	**451**	**106**	ND	--	**0.734**
	March 2002		**2600**	**7070**	**2390**	**313**	ND	**276**	**412**	**792**	**313**	**655**	**60.4**	ND	--	**66.3**
CCW-2B	3/28/1994	Shallow	**2200**	--	--	--	22	8.6	10	**10**	**370**	**6**	<10	--	--	--
	9/29/1998		**4000**	**3200**	**1700**	**420**	<10	<10	**32**	<10	**570**	<10	<10	--	--	1
	12/29/1998		**4400**	--	**2400**	**480**	ND	<10	**41**	ND	**560**	<10	<10	<0.19	--	**0.51**
	3/25/1999		**--**	--	**--**	**440**	<50	--	<50	<50	**570**	--	<50	<9.5	--	**<9.5**
	6/21/2000		**2830**	**3480**	<500	**382**	<1.00	<1	**56.7**	**6.95**	**588**	**1.91**	<1	--	--	--
	9/20/2000		**790**	--	--	**266**	<1.00	<1	**45.5**	<1.00	**410**	<1	<1	--	--	--
	12/14/2000		**828**	**3480**	**782**	**330**	<1.00	<1	**40.5**	<1.00	**496**	<1	<1	--	--	--
	Jul-01		**763**	**6200**	**1600**	**240**	ND	ND	**49**	ND	**520**	ND	ND	ND	--	**1.4**
	September 2001		**737**	**4500**	**1170**	**228**	ND	4.57	**31.8**	**26.3**	**476**	**7.21**	ND	ND	--	**1.31**
	December 2001		**10800**	**4150**	**1790**	**132**	ND	1.09	8.93	ND	**180**	ND	**1.46**	ND	--	**1.21**
	March 2002		**11800**	**4370**	**1640**	**193**	ND	1.17	**58**	ND	**545**	ND	**1.2**	ND	--	**1.47**
	12/7/2004		**12000**	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/28/2005		**13400**	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/2005		**13500**	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/2005		**15300**	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow / Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.000007**
CCW-1A	3/4/1994	Shallow	--	<50	<2	--	1	--	--	<4	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/6/2001		--	<5	**38**	--	<0.5	**1400**	<0.2	11	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**8.52**	ND	--	ND	**1560**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**9.68**	ND	--	ND	**1710**	ND	ND	--	--	--	--	--	--	--	--	--	--
CCW-1B	3/4/1994	Shallow	--	<50	<2	--	2	--	--	<4	--	--	--	--	--	--	--	--	--	--
	9/29/1998		--	<400	<20	--	--	--	<0.2	<20	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	--	--	ND
	12/29/1998		--	<400	<20	--	<150	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	<200	<20	--	<50	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	7/16/2001		--	<5	**35**	--	<0.5	**730**	<0.2	11	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	ND	**850**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	2.53	ND	--	ND	**776**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	ND	ND	--	ND	**771**	ND	**154**	--	--	--	--	--	--	--	--	--	--
CCW-1C	July 2001	Deep	--	<5	**34**	--	<0.5	**430**	ND	15	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**5.7**	ND	--	ND	**440**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**9.13**	ND	--	ND	**342**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**6.8**	ND	--	ND	**279**	ND	ND	--	--	--	--	--	--	--	--	--	--
CCW-2A	3/28/1994	Shallow	--	<10	<4	--	2	--	--	<8	--	--	--	--	--	--	--	--	--	--
	6/21/2000		--	**34.7**	1.09	--	1.81	**2920**	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
	9/20/2000		--	**18.3**	**6.57**	--	**35.8**	**168**	<1.00	11.6	--	--	--	--	--	--	--	--	--	--
	12/14/2000		--	**14.8**	**6.48**	--	**67.9**	**187**	<1.00	28	--	--	--	--	--	--	--	--	--	--
	7/12/2001		--	**12**	<10	--	2.5	**1900**	<0.2	ND	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	**170**	**520**	ND	66	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**6.5**	ND	--	5.49	**1870**	ND	11.5	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**9.89**	ND	--	5.63	**1910**	ND	11.3	--	--	--	--	--	--	--	--	--	--
CCW-2B	3/28/1994	Shallow	--	**1110**	<2	--	2	--	--	7	--	--	--	--	--	--	--	--	--	--
	9/29/1998		--	**3700**	**25**	--	**260**	--	<0.2	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	ND
	12/29/1998		--	**3100**	<20	--	<150	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	**4000**	<20	--	<50	**270**	<0.2	<20	<0.13	<0.25	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	ND
	6/21/2000		--	**4750**	<1.00	--	<1	**154**	<1.00	<10.00	--	--	--	--	--	--	--	--	--	--
	9/20/2000		--	**468**	<1.00	--	<1	**170**	<1.00	**129**	--	--	--	--	--	--	--	--	--	--
	12/14/2000		--	**5680**	1.28	--	<1	**150**	<1.00	**115**	--	--	--	--	--	--	--	--	--	--
	Jul-01		--	**5500**	<10	--	<5	**170**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**4800**	ND	--	0.96	**140**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**4590**	ND	--	ND	**150**	ND	11	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**4580**	ND	--	ND	**155**	ND	ND	--	--	--	--	--	--	--	--	--	--
	12/7/2004		--	**2100**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/28/2005		--	**1861**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/2005		--	**2100**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/2005		--	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow / Deep**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**1,4-Dioxane**	**bis-2-Ethylhexyl Phthalate (DEHP)**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**160[per Ecology]**	**0.046**
CCW-2C	Jul-01	Deep	**7000**	<100	**830**	0.093	ND	0.06	0.39	0.66	0.27	0.25	**0.21**	ND	--	**0.84**
	September 2001		**3650**	ND	**618**	ND	ND	ND	ND	ND	ND	ND	**0.883**	ND	--	**0.895**
	December 2001		**5030**	ND	**796**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**0.983**
	March 2002		**3600**	ND	**650**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.59**
CCW-3A	3/4/1994	Shallow	**4030**	--	--	--	<1.0	<2.0	24	<1.0	35	<1.0	<2.0	--	--	--
	3/25/1999		**--**	--	--	13	<0.4	0.56	450	<0.4	36	<0.4	<0.4	--	--	--
	6/21/2000		**3420**	235	**1900**	**13.2**	<1.00	<1	22.6	<1.00	28.2	<1	<1	--	--	--
	9/20/2000		**3870**	--	--	**13.7**	<1.00	<1	20.8	<1.00	30	<1	<1	--	--	--
	12/14/2000		**1300**	282	**1990**	**14.3**	<1.00	<1	17.7	<1.00	28.7	<1	<1	--	--	--
	7/13/2001		**1200**	350	**11000**	**3.6**	ND	0.51	0.36	0.11	9.8	0.086	**1.1**	ND	--	**1.6**
	September 2001		**1290**	330	**7870**	**13**	ND	0.545	15.7	0.417	25.1	0.106	ND	ND	--	**1.54**
	December 2001		**1570**	635	**8940**	**12.9**	ND	0.579	18	ND	27.8	ND	ND	ND	--	**3.68**
	March 2002		**20000**	337	**24700**	**14.1**	ND	ND	25	ND	28.1	ND	ND	**1.12**	--	ND
CCW-3B	3/4/1994	Shallow	**2850**	--	--	--	8.3	**330**	7.1	**41**	55	**75**	**100**	--	--	--
	9/29/1998		**6800**	--	**4800**	**5.1**	<0.4	**--**	0.52	<0.4	12	<0.4	<0.4	<0.1	--	--
	12/29/1998		**7000**	--	**3800**	**6.5**	<10	**120**	<10	<10	17	<10	**42**	<0.19	--	**0.69**
	3/25/1999		**7200**	**--**	**4100**	**4.5**	<0.4	18	0.54	0.44	15	**1.4**	<0.4	<0.095	--	<0.95
	6/21/2000		**1920**	376	**544**	**5.85**	<1.00	<1	<1.00	<1.00	11.2	<1	<1	--	--	--
	9/20/2000		**4400**	--	--	**4.6**	<1.00	<1	<1.00	<1.00	9.36	<1	<1	--	--	--
	12/14/2000		**4920**	497	**972**	**4.8**	<1.00	<1	<1.00	<1.00	10.4	<1	<1	--	--	--
	7/13/2001		**4800**	560	**2500**	ND	ND	ND	19	ND	29	ND	ND	ND	--	**0.795**
	September 2001		**4910**	540	**2730**	**3.39**	ND	0.422	0.311	0.341	8.38	0.132	ND	ND	--	**7.93**
	December 2001		330	531	**2070**	**4.61**	ND	1.13	ND	ND	11.6	ND	**2.88**	ND	--	**1.11**
	March 2002		**1800**	549	**2330**	**4.43**	ND	0.608	ND	ND	10.8	ND	ND	ND	--	**0.8**
CCW-3C	Jul-01	Deep	**1980**	<100	**1200**	ND	ND	ND	ND	ND	0.2	ND	ND	ND	--	**5**
	September 2001		**2220**	ND	**795**	ND	ND	ND	ND	ND	0.252	ND	ND	ND	--	**3.08**
	December 2001		**1920**	ND	**883**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.61**
	March 2002		**2600**	ND	**1220**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**7.52**
CCW-4A	3/28/1994	Shallow	**2680**	--	--	--	<1.0	<1.0	21	<1.0	14	<1.0	<2.0	<0.1	--	**0.68**
CCW-4B	3/28/1994	Shallow	**2200**	--	--	--	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<2.0	--	--	--
CCW-4C	Jul-01	Deep	**2500**	**2500**	**5500**	**99**	ND	ND	31	ND	2.8	ND	ND	ND	--	ND
	September 2001		260	ND	**3180**	ND	ND	ND	ND	ND	0.245	ND	ND	ND	--	**1900**
	December 2001		342	97.8	**1300**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.82**
	March 2002		462	ND	**1200**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.94**

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow / Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.000007**
CCW-2C	Jul-01	Deep	--	**6.1**	<10	--	<0.5	**460**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**12**	ND	--	ND	**330**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	ND	ND	--	ND	**355**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**13.8**	ND	--	ND	**303**	ND	ND	--	--	--	--	--	--	--	--	--	--
CCW-3A	3/4/1994	Shallow	--	<5	**20**	--	**140**	--	--	**1480**	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--
	6/21/2000		--	**67.9**	**5.4**	--	**25.8**	**128**	<1.00	**1040**	--	--	--	--	--	--	--	--	--	--
	9/20/2000		--	**81.2**	**42.4**	--	**353**	**217**	<1.00	**307**	--	--	--	--	--	--	--	--	--	--
	12/14/2000		--	**41.2**	**7.09**	--	**25.5**	**662**	<1.00	**488**	--	--	--	--	--	--	--	--	--	--
	7/13/2001		--	**71**	<10	--	**51**	**160**	<0.2	**880**	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**63**	**15**	--	**120**	**160**	ND	**1100**	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**84.3**	**16.7**	--	**150**	**176**	ND	**1040**	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**102**	**105**	--	**752**	**276**	**621**	**2680**	--	--	--	--	--	--	--	--	--	--
CCW-3B	3/4/1994	Shallow	--	<50	<2	--	3	--	--	5	--	--	--	--	--	--	--	--	--	--
	9/29/1998		--	<400	<20	--	**250**	--	<0.2	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	ND
	12/29/1998		--	<400	<20	--	<150	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	<20	<20	--	<50	--	<0.02	<20	--	--	--	--	--	--	--	--	--	--
	6/21/2000		--	4.55	<1.00	--	<1	**874**	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
	9/20/2000		--	**5.2**	1.14	--	1.05	**946**	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
	12/14/2000		--	4.24	1.56	--	1.15	**1860**	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
	7/13/2001		--	<5	<10	--	0.64	**1200**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	1.9	**1300**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**9.45**	ND	--	0.878	**1070**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	ND	**18.7**	--	**49**	**1030**	ND	13.2	--	--	--	--	--	--	--	--	--	--
CCW-3C	Jul-01	Deep	--	<5	<10	--	<0.5	**960**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	0.87	**710**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**5.06**	ND	--	1.97	**995**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	ND	**10.7**	--	**8.99**	**905**	ND	10.8	--	--	--	--	--	--	--	--	--	--
CCW-4A	3/28/1994	Shallow	--	<50	**10**	--	**109**	--	--	**84**	--	--	--	--	--	--	--	--	--	--
CCW-4B	3/28/1994	Shallow	--	<50	<2	--	1	--	--	4	--	--	--	--	--	--	--	--	--	--
CCW-4C	Jul-01	Deep	--	<5	**24**	--	<0.5	**1700**	ND	10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**5.7**	ND	--	ND	**200**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	3.03	ND	--	ND	**210**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**6.66**	ND	--	ND	**184**	ND	ND	--	--	--	--	--	--	--	--	--	--

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow / Deep**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**1,4-Dioxane**	**bis-2-Ethylhexyl Phthalate (DEHP)**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**160**[per Ecology]	**0.046**
CCW-5B	Jul-01	Shallow	444	**3200**	**2400**	**110**	ND	ND	100	ND	47	ND	ND	ND	--	**1.6**
	September 2001		**4500**	**2900**	**1980**	**143**	ND	3.08	**79.3**	ND	79.4	ND	ND	ND	--	**1.8**
	December 2001		**4210**	**2810**	**2170**	**118**	ND	1.95	**73.5**	ND	83	ND	**0.884**	ND	--	**2.01**
	March 2002		**3580**	**2570**	**3210**	**44.6**	ND	ND	**86.3**	ND	15.6	ND	ND	ND	--	**6.88**
	September 2005		**4740**	**1100**	<250	**110**	--	--	**55**	--	26	--	--	--	--	--
	March 2006		**680**	**1000**	<250	**75**	--	--	**94**	--	19	--	--	--	--	--
CCW-5C	July 2001	Deep	**560**	<100	**1500**	ND	ND	ND	0.077	0.15	0.17	ND	ND	--	--	**0.99**
	September 2001		**1000**	ND	**1050**	ND	ND	ND	ND	ND	ND	ND	ND	--	--	**0.807**
	December 2001		**864**	ND	**1050**	ND	ND	ND	ND	ND	ND	ND	ND	--	--	**0.802**
	March 2002		**884**	ND	**1220**	ND	ND	ND	ND	ND	ND	ND	ND	--	--	**1.74**
	September 2005		**700**	<50	<250	<2	--	--	<2.00	--	<2	--	--	--	--	--
	March 2006		**1500**	<50	<250	<2	--	--	<2.00	--	<2	--	--	--	--	--
CCW-6B	Jul-01	Shallow	**2600**	520	**1500**	**79**	ND	ND	**33**	ND	10	ND	ND	ND	--	**23**
	September 2001		**2680**	517	**1180**	**88.4**	ND	0.45	**31.1**	ND	10.4	ND	ND	ND	--	ND
	December 2001		**2200**	139	**1400**	**46**	ND	0.575	6.7	ND	2.3	ND	ND	ND	--	**1.16**
	March 2002		**2500**	188	**1320**	**15.9**	ND	0.628	2.19	ND	1.26	ND	ND	ND	--	**86.7**
	September 2005		260	250	<250	**74**	--	--	27	--	6	--	--	--	--	--
	March 2006		342	100	<250	**65**	--	--	12	--	2	--	--	--	--	--
CCW-6C	Jul-01	Deep	462	<100	310	0.066	ND	ND	ND	ND	0.099	ND	ND	ND	--	**1.5**
	September 2001		444	ND	324	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.27**
	December 2001		**4500**	ND	**572**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.66**
	March 2002		**4210**	ND	434	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.73**
	September 2005		**3580**	<50	<250	<2	--	--	2 U	--	3	--	--		--	--
	March 2006		**4740**	<50	<250	<2	--	--	2 U	--	<2	--	--		--	--
CCW-7B	July 2001	Shallow	**680**	**3100**	**1700**	**130**	ND	ND	**94**	ND	72	ND	ND	ND	--	**3.21**
	September 2001		**560**	**2400**	**1520**	**148**	ND	ND	**89.1**	ND	68.8	ND	ND	ND	--	ND
	December 2001		**1000**	**1520**	**1290**	**116**	ND	ND	**85.7**	ND	40.2	ND	ND	ND	--	**1.03**
	March 2002		**864**	**2440**	**1870**	**182**	ND	ND	**170**	ND	112	ND	ND	ND	--	**2.1**
	September 2005		**884**	**1700**	<250	**130**	--	--	**110**	--	34	--	--	--	--	--
	March 2006		**700**	**1600**	<250	**120**	--	--	**160**	--	61	--	--	--	--	--
CCW-7C	July 2001	Deep	**1500**	<100	**910**	1.2	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.5**
	September 2001		**864**	79	**581**	0.99	ND	0.248	ND	ND	ND	ND	ND	ND	--	**1.86**
	December 2001		**884**	ND	**823**	0.579	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.4**
	March 2002		**700**	60.8	**563**	0.676	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.21**
	September 2005		<130	<50	<250	<2	--	--	<2	--	<2	--	--	--	--	--
	March 2006		<130	<50	<250	<2	--	--	<2	--	<2	--	--	--	--	--
CCW-8B	7/16/2001	Shallow	**1500**	<100	**1200**	ND	ND	ND	ND	ND	0.45	ND	ND	ND	--	**3.6**
CCW-8B	7/16/2001	Shallow	**19000**	**2400**	**5400**	--	--	--	--	--	--	--	--	--	--	--
CCW-8B	September 2001	Shallow	**12900**	**1000**	**4980**	**66.5**	ND	0.247	11.7	ND	1.5	ND	ND	ND	--	**0.617**

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow / Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.000007**
CCW-5B	Jul-01	Shallow	--	**3300**	ND	--	4.1	**1400**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**8200**	ND	--	3.6	**1300**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**8110**	ND	--	6.2	**1050**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**132**	ND	--	**12**	**1600**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2005		--	**630**	<5	--	<3	--	**0.4**	10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	**37**	<5	--	**15**	--	<0.2	10	--	--	--	--	--	--	--	--	--	--
CCW-5C	July 2001	Deep	--	**5.9**	ND	--	<0.5	**2500**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	ND	**2900**	ND	4.3	--	--	--	--	--	--	--	--	--	--
	December 2001		--	4.9	ND	--	ND	**3000**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	ND	ND	--	ND	**2480**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2005		--	<5	<5	--	<3	--	**0.5**	<10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	**7**	<5	--	<3	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
CCW-6B	Jul-01	Shallow	--	**5.2**	<10	--	7.9	**2600**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**11**	ND	--	**14**	**2500**	ND	12	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**20.3**	ND	--	**22**	**2220**	ND	**164**	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**8.51**	**10.1**	--	1.17	**1490**	ND	37.8	--	--	--	--	--	--	--	--	--	--
	September 2005		--	<5	<5	--	5	--	**0.5**	<10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	**19**	<5	--	**16**	--	<0.2	30	--	--	--	--	--	--	--	--	--	--
CCW-6C	Jul-01	Deep	--	<5	<10	--	0.52	**560**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	September 2001		--	**6.9**	ND	--	ND	**390**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**10.3**	ND	--	ND	**322**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**6.79**	ND	--	ND	**284**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2005		--	<5	<5	--	7	--	**0.2**	<10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	**8**	<5	--	<3	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
CCW-7B	July 2001	Shallow	--	<5	ND	--	6.1	**2000**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	1.6	**2000**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**9.62**	ND	--	**12.2**	**1700**	ND	18.1	--	--	--	--	--	--	--	--	--	--
	March 2002		--	**8.06**	ND	--	ND	**1520**	ND	14	--	--	--	--	--	--	--	--	--	--
	September 2005		--	<5	<5	--	<3	--	**0.6**	<10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	**9**	<5	--	<3	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
CCW-7C	July 2001	Deep	--	<5	ND	--	<0.5	**470**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2001		--	ND	ND	--	ND	**380**	ND	ND	--	--	--	--	--	--	--	--	--	--
	December 2001		--	**6.86**	ND	--	ND	**239**	ND	ND	--	--	--	--	--	--	--	--	--	--
	March 2002		--	ND	ND	--	ND	**197**	ND	ND	--	--	--	--	--	--	--	--	--	--
	September 2005		--	<5	<5	--	<3	--	**0.8**	<10	--	--	--	--	--	--	--	--	--	--
	March 2006		--	<5	<5	--	<3	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
CCW-8B	7/16/2001	Shallow	--	**7**	**34**	--	1.3	**410**	<0.2	19	--	--	--	--	--	--	--	--	--	--
CCW-8B	7/16/2001	Shallow	--	<5	**26**	--	<0.5	**1700**	<0.2	10	--	--	--	--	--	--	--	--	--	--
CCW-8B	September 2001	Shallow	--	ND	ND	--	ND	**1300**	ND	ND	--	--	--	--	--	--	--	--	--	--

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow / Deep**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**1,4-Dioxane**	**bis-2-Ethylhexyl Phthalate (DEHP)**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**160[per Ecology]**	**0.046**
MW-1	2/20/1986	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/24/2000		**10000**	511	**1900**	**1320**	<1.00	0.368	12.3	<1.00	1.45	<1.00	<1.00	--	--	--
	6/22/2000		--	--	--	**74.2**	<1.00	<1.00	38.8	<1.00	1.03	<1.00	<1.00	--	--	--
	9/26/2000		**23000**	700	--	**84.8**	<1.00	<1.00	30.1	<1.00	0.814	<1.00	<1.00	--	--	--
MW-2	2/19/1986	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/19/1986	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/25/1999		**1600**	--	**1100**	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	--	<0.95
	12/30/1998		**2600**	--	**1300**	<10	<10	<10	--	<10	<10	<10	<10	<0.19	--	<0.48
MW-4	2/20/1986	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/29/1998		**6400**	--	**7200**	**6.8**	<0.4	<0.4	8.9	<0.4	10	<0.4	<0.4	<0.1	--	**1.1**
	6/22/2000		--	--	--	**3.99**	<1.00	<1.00	11.9	<1.00	6.92	<1.00	<1.00	--	--	--
	9/20/2000		**16000**	<500	--	**6.56**	<1.00	<1.00	9.19	<1.00	10	<1.00	<1.00	--	--	--
A-3	4/26/1989	unknown	--	--	<5000	--	--	--	--	<50	<50	<.05	--	--	--	--
L-2	4/26/1989	unknown	--	--	<5000	--	--	--	--	<50	<50	<.05	--	--	--	--
L-4	5/11/1989	unknown	--	--	12100	--	--	--	--	<50	<50	<0.05	--	--	--	--
PA-12	8/23/2000	Shallow	**3900**	**25000**	<500	**180**	<2	**25**	**82**	<2	**320**	<2	**14**	<5	--	<25
PA-11	8/23/2000	Shallow	**6500**	**26000**	<500	**370**	<2	**63**	**99**	<2	**380**	<2	**17**	<5	--	<25
TF2-13	8/23/2000	Shallow	**600**	<100	**850**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	--	<2.5
TF2-14	8/23/2000	Shallow	**740**	<100	**1000**	<0.2	<0.2	<0.2	<0.2	0.73	<0.2	<0.2	<0.2	<1	--	<5
TF2-15	8/23/2000	Shallow	**500**	<100	<500	<0.2	<0.2	<0.2	<0.2	<0.2	0.25	<0.2	<0.2	<0.5	--	<2.5
TF3-05	8/23/2000	Shallow	**720**	640	<500	0.36	0.72	**680**	<0.2	**100**	0.26	**16**	**450**	<0.5	--	<2.5
TF3-06	8/23/2000	Shallow	<250	120	<500	<0.2	<0.2	0.31	<0.2	0.79	<0.2	<0.2	**0.24**	<0.5	--	<2.5
TF3-07	8/23/2000	Shallow	**1300**	<100	**1400**	**2.7**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	--	<2.5
TF3-08	8/23/2000	Shallow	**2100**	**2100**	<500	**34**	<0.2	**28**	1.6	**170**	17	**2.1**	**5.3**	<0.5	--	<2.5
TF4-01	8/23/2000	Shallow	**610**	<100	**670**	**2.4**	<0.2	<0.20	<0.2	<0.2	6.1	<0.2	<0.20	<0.5	--	<2.5
TF4-02	8/23/2000	Shallow	**850**	<100	**1200**	**11**	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.5	--	<2.5
TF4-03	8/23/2000	Shallow	**830**	<100	**740**	0.5	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	**0.47**	<0.5	--	<2.5
TF4-04	8/23/2000	Shallow	<250	<100	<500	0.81	<0.2	<0.20	<0.2	<0.2	5	<0.2	<0.20	<0.5	--	<2.5
WT-09	8/23/2000	Shallow	**3400**	**2400**	**2700**	**160**	<2	<2	**98**	<2	25	<0.2	<2	<0.5	--	<2.5
WT-10	8/23/2000	Shallow	**1100**	200	**2200**	**4.1**	<0.2	0.23	0.29	<0.2	0.55	<0.2	<0.20	<0.5	--	<2.5
Direct Push Borings																
B1	5/22/2001	Deep	**2400**	--	480	**7.1**	--	0.42	1.1	--	4.6	--	--	--	--	--
B2	5/22/2001	Shallow	**3000**	**3100**	**780**	**170**	--	1.8	**85**	--	11	0.13	**0.71**	--	--	**1.5**
B3	5/22/2001	Shallow	**2300**	75	**1100**	**2**	--	0.14	0.22	--	0.27	--	0.039	**0.32**	--	**1.7**
B4	5/22/2001	Shallow	**4000**	140	**1700**	**28**	--	0.25	3.7	--	4.5	--	0.14	--	--	--
B5	5/22/2001	Shallow	**1500**	270	**570**	**73**	--	0.36	15	--	3.7	0.14	0.18	**0.14**	--	**1.7**
B6	5/22/2001	Shallow	**2100**	**970**	**910**	**120**	--	--	**72**	--	22	--	--	**1.6**	--	**2**
B7	5/22/2001	Shallow	**5700**	**2600**	**2200**	**91**	--	--	**97**	--	98	--	--	**0.56**	--	**2.5**

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow / Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.000007**
MW-1	2/20/1986	Shallow	--	--	--	--	**20**	--	--	71	--	--	--	--	--	--	--	--	--	--
	3/24/2000		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/22/2000		--	1.82	1.28	--	1.43	**692**	<1.00	<10	--	--	--	--	--	--	--	--	--	--
	9/26/2000		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/19/1986	Shallow	--	--	--	--	<10	--	--	16	--	--	--	--	--	--	--	--	--	--
MW-3	2/19/1986	Shallow	--	--	--	--	**10**	--	--	19	--	--	--	--	--	--	--	--	--	--
	3/25/1999		--	<200	<20	--	<50	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	12/30/1998		--	<400	<20	--	<150	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
MW-4	2/20/1986	Shallow	--	--	--	--	20	--	--	**240**	--	--	--	--	--	--	--	--	--	--
	9/29/1998		--	<0.4	<20	--	<0.15	--	<0.2	<20	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	--	--	ND
	6/22/2000		--	**5.77**	**11.5**	--	**21.3**	**263**	<1.00	**93.2**	--	--	--	--	--	--	--	--	--	--
	9/20/2000		--	**6.17**	**8.42**	--	**17.5**	**101**	<1.00	**152**	--	--	--	--	--	--	--	--	--	--
A-3	4/26/1989	unknown	--	<100	--	--	<100	--	--	<100	--	--	--	--	--	--	--	--	--	--
L-2	4/26/1989	unknown	--	<100	--	--	<100	--	--	<100	--	--	--	--	--	--	--	--	--	--
L-4	5/11/1989	unknown	--	**400**	--	--	<100	--	--	<100	--	--	--	--	--	--	--	--	--	--
PA-12	8/23/2000	Shallow	**1000**	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
PA-11	8/23/2000	Shallow	**15000**	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF2-13	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF2-14	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF2-15	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF3-05	8/23/2000	Shallow	4.3	--	13	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF3-06	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF3-07	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF3-08	8/23/2000	Shallow	4.7	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF4-01	8/23/2000	Shallow	**7.8**	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF4-02	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF4-03	8/23/2000	Shallow	**6**	--	10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
TF4-04	8/23/2000	Shallow	<3	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
WT-09	8/23/2000	Shallow	**15**	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
WT-10	8/23/2000	Shallow	**8.7**	--	<10	<1	--	--	<0.5	<50	--	--	--	--	--	--	--	--	--	--
Direct Push Borings																				
B1	5/22/2001	Deep	--	**920**	**94**	--	**120**	**4200**	**1.9**	39	--	--	--	--	--	--	--	--	--	--
B2	5/22/2001	Shallow	--	**12000**	**150**	--	**2500**	**1900**	**2.8**	**1200**	--	--	--	--	--	--	--	--	--	--
B3	5/22/2001	Shallow	--	**170**	**30**	--	**970**	**3400**	**3**	**1600**	--	--	--	--	--	--	--	--	--	--
B4	5/22/2001	Shallow	--	**220**	**21**	--	**700**	**2200**	**1.6**	**1200**	--	--	--	--	--	--	--	--	--	--
B5	5/22/2001	Shallow	--	**460**	**180**	--	**570**	**2400**	**1.9**	**1700**	--	--	--	--	--	--	--	--	--	--
B6	5/22/2001	Shallow	--	**440**	**350**	--	**2400**	**2800**	**3.9**	**280**	--	--	--	--	--	--	--	--	--	--
B7	5/22/2001	Shallow	--	**200**	**99**	--	**660**	**1700**	**2**	**880**	--	--	--	--	--	--	--	--	--	--

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow / Deep**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**1,4-Dioxane**	**bis-2-Ethylhexyl Phthalate (DEHP)**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**160**[per Ecology]	**0.046**
Direct Push Borings (cont.)																
B8	5/22/2001	Shallow	**2500**	600	**1100**	**28**	--	0.7	4.9	--	73	--	--	--	--	<0.83
B9	5/22/2001	Shallow	**1200**	**2400**	440	**32**	--	1.9	--	--	50	--	--	--	--	<0.83
B10	Unknown	Shallow	**3700**	--	--	--		--		--	--	--	--		--	--
B11	5/23/2001	Shallow	**4400**	**1300**	**1100**	**3.9**	--	--	1.8	--	1.8	--	--	--	--	**1.7**
B12	5/23/2001	Shallow	**13000**	290	**800**	**39**	--	1.6	13	--	50	0.2	**0.31**	--	--	**2.3**
B13	5/23/2001	Shallow	**5000**	**7600**	**1300**	**170**	<40.0	**1200**	**80**	**1300**	**360**	**7400**	**110**	--	--	<0.88
B14	5/24/2001	Shallow	**4100**	**5100**	**1100**	**180**	--	**67**	**63**	**2200**	**290**	**900**	**32**	--	--	--
B15	5/24/2001	Shallow	**4100**	190	**2100**	**34**	--	--	9.1	--	2.5	--	--	--	--	--

Notes:
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
ND = not detected, reporting limit not available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report
* TPH run as total TPH by EPA 1664

TABLE 16
SUMMARY GROUNDWATER DATA - CLEANCARE PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow / Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**0.000007**
Direct Push Borings (cont.)																				
B8	5/22/2001	Shallow	--	**1200**	**25**	--	**15**	**1300**	**1.7**	54	--	--	--	--	--	--	--	--	--	--
B9	5/22/2001	Shallow	--	**21**	**21**	--	7.8	**730**	**0.86**	40	--	--	--	--	--	--	--	--	--	--
B10	Unknown	Shallow	--	--		--	**600**	--	--	--	--	--	--	--	--	--	--	--	--	--
B11	5/23/2001	Shallow	--	**50000**	**400**	--	**600**	**9800**	**14**	**1100**	--	--	--	--	--	--	--	--	--	--
B12	5/23/2001	Shallow	--	**110000**	**310**	--	**430**	**4100**	**6.7**	**2000**	--	--	--	--	--	--	--	--	--	--
B13	5/23/2001	Shallow	--	**29000**	<10.0	--	5.3	**5100**	**6**	39	--	--	--	--	--	--	--	--	--	--
B14	5/24/2001	Shallow	--	**36000**	**11**	--	**17**	**3100**	**3.5**	45	--	--	--	--	--	--	--	--	--	--
B15	5/24/2001	Shallow	--	**330**	**120**	--	**620**	**2700**	**2.7**	**440**	--	--	--	--	--	--	--	--	--	--

Notes:
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
ND = not detected, reporting limit not available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report
* TPH run as total TPH by EPA 1664

DOF DALTON OLMSTED FUGLEVAND

TABLE 17
SUMMARY GROUNDWATER DATA - 1514 TAYLOR WAY PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs			Metals							
Location	Date	Shallow/ Deep	Diesel	Gas	Motor Oil	Benzene	1,1-DCE	cis-1,2-DCE	Ethyl-benzene	PCE	Toluene	TCE	VC	Benzo(a) pyrene	DEHP	1,4-dioxane	Arsenic D	Arsenic T	Copper	Lead D	Lead T	Manganese	Mercury	Zinc
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**
Monitoring Wells																								
PMW-1A	September 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	12	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.4**	<10.0
	December 2005	Shallow	<130	66	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	3	--	**0.3**	<10.0
	March 2006	Shallow	<130	55	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<3.0	--	--	**9**	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Shallow	483	55.1	**943**	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	1.83	--	--	<0.5	--	--	--
PMW-1B	September 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	**21**	<5.0	--	<3	--	**0.4**	<10.0
	December 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	**18**	<5.0	--	<3	--	**0.3**	<10.0
	March 2006	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<3.0	--	--	**10**	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Deep	416	<50	**1170**	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	**6.02**	--	--	<0.5	--	--	--
PMW-2A	September 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	**96**	--	**0.4**	**110**
	December 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	6	--	**0.3**	<10.0
	March 2006	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<3.0	--	--	**7**	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Shallow	82.1	<50	109	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	1.65	--	--	<0.5	--	--	--
PMW-2B	September 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	**6**	--	**14**	--	**0.3**	30
	December 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.2**	<10.0
	March 2006	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<3.0	--	--	<5	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Deep	136	<50	254	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	<1	--	--	<0.5	--	--	--
PMW-3A	September 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	**27**	<5.0	--	<3	--	**0.2**	<10
	December 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	**6**	<5.0	--	<3	--	**0.3**	<10.0
	March 2006	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**3** ***	--	--	**11**	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Shallow	78.9	<50	<100	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	2.02	--	--	<0.5	--	--	--
PMW-3B	September 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	**17**	<5.0	--	<3	--	**0.3**	<10
	December 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.2**	<10.0
	March 2006	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**3** ***	--	--	**21**	<5.0	--	<3	--	**0.2**	<10.0
	December 2016	Deep	<49.7	<50	491	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	**25.1**	--	--	<0.5	--	--	--
PMW-4A	September 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.3**	<10.0
	December 2005	Shallow	<130	110	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.3**	<10.0
	March 2006	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**3** ***	--	--	**13**	<5.0	--	5	--	<0.2	<10.0
	December 2016	Shallow	<50.3	189	375	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	3.78	--	--	<0.5	--	--	--
PMW-4B	September 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	3	<2	<2	NT	NT	--	--	--	NT	--	--	--	NT	NT
	December 2005	Deep	<130	100	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	11	--	--	<5	< 5.0	--	4	--	**0.5**	<10.0
	March 2006	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**7** ***	--	--	<5	7	--	3	--	<0.2	10
	December 2016	Deep	--	<50	--	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	--	--	--	--	--	--	--
PMW-5A	September 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	6	--	**0.3**	<10
	December 2005	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.3**	<10.0
	March 2006	Shallow	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**3** ***	--	--	**9**	<5.0	--	<3	--	<0.2	<10.0
	December 2016	Shallow	128	<50	**668**	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	<0.001	--	--	<0.5	--	--	--
PMW-5B	September 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	<3	--	**0.2**	<10.0
	December 2005	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	<2.0	--	--	<5	<5.0	--	4	--	**0.4**	<10.0
	March 2006	Deep	<130	<50	<250	<2	<2.0	<2	<2.0	--	<2	<2	<2	<2.0	**3** ***	--	--	<5	<5.0	--	<3	--	<0.2	<10.0
	December 2016	Deep	125	<50	1210	<1	--	<1	--	--	<1	<0.5	<0.2	--	--	--	--	2.41	--	--	<0.5	--	--	--

TABLE 17
SUMMARY GROUNDWATER DATA - 1514 TAYLOR WAY PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			PCBs									
Location	**Date**	**Shallow/ Deep**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
Monitoring Wells												
PMW-1A	September 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	March 2006	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2016	Shallow	--	--	--	--	--	--	--	--	--	--
PMW-1B	September 2005	Deep	--	--	--	--	--	--	--	--	--	--
	December 2005	Deep	--	--	--	--	--	--	--	--	--	--
	March 2006	Deep	--	--	--	--	--	--	--	--	--	--
	December 2016	Deep	--	--	--	--	--	--	--	--	--	--
PMW-2A	September 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	March 2006	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2016	Shallow	--	--	--	--	--	--	--	--	--	--
PMW-2B	September 2005	Deep	--	--	--	--	--	--	--	--	--	--
	December 2005	Deep	--	--	--	--	--	--	--	--	--	--
	March 2006	Deep	--	--	--	--	--	--	--	--	--	--
	December 2016	Deep	--	--	--	--	--	--	--	--	--	--
PMW-3A	September 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	March 2006	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2016	Shallow	--	--	--	--	--	--	--	--	--	--
PMW-3B	September 2005	Deep	--	--	--	--	--	--	--	--	--	--
	December 2005	Deep	--	--	--	--	--	--	--	--	--	--
	March 2006	Deep	--	--	--	--	--	--	--	--	--	--
	December 2016	Deep	--	--	--	--	--	--	--	--	--	--
PMW-4A	September 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	March 2006	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2016	Shallow	--	--	--	--	--	--	--	--	--	--
PMW-4B	September 2005	Deep	--	--	--	--	--	--	--	--	--	--
	December 2005	Deep	--	--	--	--	--	--	--	--	--	--
	March 2006	Deep	--	--	--	--	--	--	--	--	--	--
	December 2016	Deep	--	--	--	--	--	--	--	--	--	--
PMW-5A	September 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2005	Shallow	--	--	--	--	--	--	--	--	--	--
	March 2006	Shallow	--	--	--	--	--	--	--	--	--	--
	December 2016	Shallow	--	--	--	--	--	--	--	--	--	--
PMW-5B	September 2005	Deep	--	--	--	--	--	--	--	--	--	--
	December 2005	Deep	--	--	--	--	--	--	--	--	--	--
	March 2006	Deep	--	--	--	--	--	--	--	--	--	--
	December 2016	Deep	--	--	--	--	--	--	--	--	--	--

TABLE 17
SUMMARY GROUNDWATER DATA - 1514 TAYLOR WAY PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs			Metals							
Location	Date	Shallow/ Deep	Diesel	Gas	Motor Oil	Benzene	1,1-DCE	cis-1,2-DCE	Ethyl-benzene	PCE	Toluene	TCE	VC	Benzo(a) pyrene	DEHP	1,4-dioxane	Arsenic D	Arsenic T	Copper	Lead D	Lead T	Manganese	Mercury	Zinc
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Screening Level	500	800	500	1.6	4000	16	31	2.9	130	0.7	0.18	0.05	0.046	160	5	5	2.4	8.1	8.1	100	0.025	81
Direct Push Borings																								
GP-1A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-1B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-2A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-2B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-3A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-3B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-4A	May 2005	Shallow	--	520	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-4B	May 2005	Deep	--	95	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-5A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-5B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-6A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-6B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-7A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-7B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-8A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-8B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-9A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-9B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-10A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-10B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-11B	May 2005	Deep	--	270	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-12A	May 2005	Shallow	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-12B	May 2005	Deep	--	<50	--	<2	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-13A	May 2005	Shallow	--	**1400**	--	**58**	--	<2	--	--	20	<2	<2	--	--	--	--	--	--	--	--	--	--	--
GP-13B	May 2005	Deep	--	<50	--	**7**	--	<2	--	--	<2	<2	<2	--	--	--	--	--	--	--	--	--	--	--

Notes:
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report
*** Results may be due to laboratory contamination

TABLE 17
SUMMARY GROUNDWATER DATA - 1514 TAYLOR WAY PROPERTY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			PCBs									
Location	**Date**	**Shallow/ Deep**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**Total PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
Direct Push Borings												
GP-1A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-1B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-2A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-2B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-3A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-3B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-4A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-4B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-5A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-5B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-6A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-6B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-7A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-7B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-8A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-8B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-9A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-9B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-10A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-10B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-11B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-12A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-12B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--
GP-13A	May 2005	Shallow	--	--	--	--	--	--	--	--	--	--
GP-13B	May 2005	Deep	--	--	--	--	--	--	--	--	--	--

Notes:
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shov
Screening levels shown are from 2005 Steri
*** Results may be due to laboratory contam

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-1	6/4/1987	Shallow	--	--	**8400**	**210**	30	--	--	--	3.3	**8.0**	**19**	--	**5.4**	--
	4/24/1991	Shallow	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--
	3/25/1998	Shallow	<1250	--	--	**120**	<1	3.1	6.7	<1	5.9	<2	**1.3**	<1	**5.2**	--
	6/23/1998	Shallow	<1200	--	--	**130**	<1	4.1	7.0	<1	9.3	<2	**1.5**	<1	<2	--
	9/23/1998	Shallow	**7300**	650	--	**180**	<1	2.2	11	<1	12	<2	**1.7**	<1	<2	--
	12/16/1998	Shallow	<0.25	**870**	--	**100**	<1	1.9	3.8	<1	7.8	<2	**1.3**	<1	<2	--
	3/21/2000	Shallow	**11300**	**860**	**1320**	**691**	<1.00	1.55	2.19	<1.00	6.47	<1.00	1.01	--	--	--
	9/27/2000	Shallow	--	--	--	**170**	<1.00	<1.00	<1.00	<1.00	5.69	<1.00	<1.00	--	--	--
CTMW-2	6/4/1987	Shallow		--	**5450**	**14**	--	--	--	--	2.1	--	--	--	--	--
CTMW-3	6/4/1987	Shallow	--	--	**6000**	**2.1**	--	--	--	--	--	--	--	--	--	--
CTMW-4	6/4/1987	Shallow	--	--	**9600**	**38**	12	--	--	--	21	--	--	--	**4.8**	--
	9/29/1998	Shallow	**9000**	--	**5000**	**47**	<0.4	<0.4	**32**	<0.4	0.96	<0.4	<0.4	--	**--**	--
	12/30/1998	Shallow	**3700**	--	**1800**	**25**	<10	<10	<10	<10	<10	<10	<10	<0.19	**0.47**	--
	3/25/1999	Shallow	**6200**	**--**	**2300**	**38**	<0.4	<0.4	1.7	<0.4	<0.4	<0.4	<0.4	--	**--**	--
CTMW-5	6/4/1987	Shallow	--	--	**18400**	--	8.1	--	--	--	6.3	--	--	--	--	--
	3/25/1998	Shallow	<1250	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	**4.6**	--
	6/25/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/23/1998	Shallow	<250	<60	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/16/1998	Shallow	<0.25	<300	--	**1.9**	<1	<1	<1	<1	14	<2	<1	<1	2.5	--
	3/24/1999	Shallow	430	<50	--	<0.0500	<0.0100	<0.0500	<1	<0.0500	<1	<1	<0.05	<5	<20	--
	6/23/1999	Shallow	<210	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1	<2	--
	9/21/1999	Shallow	690	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<0.95	<4.8	--
	12/8/1999	Shallow	210	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	1.3	<0.40	<0.20	<1	<2	--
	3/22/2000	Shallow	<250	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.22	<26.1	--
	6/13/2000	Shallow	<250	<50	<500	1.27	1.87	<1.00	<1.00	<1.00	1.14	**1.27**	<1.00	--	--	--
	9/27/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2000	Shallow	**1980**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**1.66**	<1.00	--	--	--
	3/23/2001	Shallow	446	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2001	Shallow	451	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/12/2001	Shallow	632	<50	**512**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/20/2001	Shallow	352	<50	<500	<0.500	<1.00	<1.00	<1.00	**11.5**	<1.00	**3.15**	<1.00	--	--	--
	3/25/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	**23.5**	<1.00	**4.8**	<1.00	--	--	1.57
	6/20/2002	Shallow	<250	<50	<500	<0.500	<1.00	1.03	<1.00	**4.43**	<1.00	**3.47**	<1.00	--	--	<1.00
	9/17/2002	Shallow	<250	<50	<500	<0.500	<1.00	2.08	<1.00	<1.00	<1.00	**2.28**	<1.00	--	--	--
	12/18/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	**2.95**	<1.00	**1**	<1.00	--	--	--
	3/20/2003	Shallow	<250	<50	<500	<0.500	<1.00	1.43	<1.00	2.73	<1.00	**5.27**	<1.00	--	--	--
	6/26/2003	Shallow	309	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.39	<1.00	<1.00	--	--	--
	9/16/2003	Shallow	**1170**	<50	<500	0.92	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/12/2003	Shallow	<250	<50	<500	0.93	<1.00	<1.00	<1.00	1.14	<1.00	<1.00	<1.00	--	--	--
	3/16/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/8/2004	Shallow	719	<50	<500	0.68	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/8/2004	Shallow	**1340**	<50	<500	**5.35**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/9/2004	Shallow	<250	<50	<500	**4.64**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/31/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	**3.13**	<1.00	**2.44**	<1.00	--	--	--
	6/22/2005	Shallow	<19	<13	<28	0.93	0.010	0.31	<0.13	<0.13	0.31	0.24	0.076	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-1	6/4/1987	Shallow	--	--	--	--	--	--	--	39	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Shallow	<10	<10	<5	<20	<20	--	**0.4**	<2	--	--	--	--	--	--	--	--	--	--
	3/25/1998	Shallow	--	**34.6**	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/23/1998	Shallow	--	**38**	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1998	Shallow	--	**39**	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/16/1998	Shallow	--	**32**	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/21/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/27/2000	Shallow	--	**45.3**	1.91	--	<1	**513**	<1	<10	--	--	--	--	--	--	--	--	--	--
CTMW-2	6/4/1987	Shallow	--	**3400**	--	--	--	--	--	37	--	--	--	--	--	--	--	--	--	--
CTMW-3	6/4/1987	Shallow	--	--	--	--	--	--	--	23	--	--	--	--	--	--	--	--	--	--
CTMW-4	6/4/1987	Shallow	--	--	--	--	--	--	--	26	--	--	--	--	--	--	--	--	--	--
	9/29/1998	Shallow		<400	<20		<150		<20	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	
	12/30/1998	Shallow		<400	<20		<150		<0.2	<20										
	3/25/1999	Shallow		<20	<20				<0.2	<20										
CTMW-5	6/4/1987	Shallow	--	**6.6**	--	--	--	--	--	20	--	--	--	--	--	--	--	--	--	--
	3/25/1998	Shallow	--	**32.7**	<25	--	<3	--	<1	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	6/25/1998	Shallow	--	**35**	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1998	Shallow	--	**25**	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/16/1998	Shallow	--	**25**	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/24/1999	Shallow	--	**53.9**	**3.22**	--	1.71	--	<1	33.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/23/1999	Shallow	--	**50**	<25	--	<3	**300**	<0.2	<20	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	--	--	--
	9/21/1999	Shallow	--	**20**	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/8/1999	Shallow	--	**40**	<25	--	<3	75	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/22/2000	Shallow	--	**30.3**	**4.54**	--	1.39	42.6	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/13/2000	Shallow	--	**42.4**	**8**	--	1.19	**362**	<1	39.9	--	--	--	--	--	--	--	--	--	--
	9/27/2000	Shallow	--	**21.8**	**4.62**	--	2.68	**519**	<1	35.8	--	--	--	--	--	--	--	--	--	--
	12/18/2000	Shallow	--	**7.42**	1.92	--	<1	**258**	<1	28.3	--	--	--	--	--	--	--	--	--	--
	3/23/2001	Shallow	--	**24.2**	1.88	--	1.02	**564**	<1	37	--	--	--	--	--	--	--	--	--	--
	6/20/2001	Shallow	--	**21.9**	**3.12**	--	1.5	**536**	<1	41.4	--	--	--	--	--	--	--	--	--	--
	9/12/2001	Shallow	--	**7.32**	1.66	--	<1	**692**	<1	17.2	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Shallow	--	**17.1**	**10.6**	--	4.53	54.1	<1	75.1	--	--	--	--	--	--	--	--	--	--
	3/25/2002	Shallow	--	**20.4**	**3.44**	--	1.3	--	<1	30.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/20/2002	Shallow	--	**12**	1.89	--	1.55	--	<1	16.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/17/2002	Shallow	--	**11.8**	1.04	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2002	Shallow	--	**14.2**	4	--	1.45	--	<1	**647**	--	--	--	--	--	--	--	--	--	--
	3/20/2003	Shallow	**16.5**	**18.1**	**3.39**	<1	1.4	--	<1	35.4	--	--	--	--	--	--	--	--	--	--
	6/26/2003	Shallow	**11.1**	**11.3**	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/16/2003	Shallow	**20.2**	**14.9**	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/12/2003	Shallow	**22.4**	**16.8**	2.2	<1	<1	--	<1	**167**	--	--	--	--	--	--	--	--	--	--
	3/16/2004	Shallow	**9.33**	**12.4**	**2.86**	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/8/2004	Shallow	**8.26**	**7.35**	<1	<1	<1	--	<0.2	10.3	--	--	--	--	--	--	--	--	--	--
	9/8/2004	Shallow	--	**5.16**	<1	--	<1	**581**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/9/2004	Shallow	--	2.8	<1	--	<1	**615**	<0.2	14.1	--	--	--	--	--	--	--	--	--	--
	3/31/2005	Shallow	--	**15**	**5.17**	--	<1	**164**	<0.2	**354**	--	--	--	--	--	--	--	--	--	--
	6/22/2005	Shallow	--	**7.4**	1.8	--	0.28	**924**	<0.2	9.6	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-5	9/28/2005	Shallow	<250	<50	<500	3.3	0.022	0.26	<0.13	<0.13	0.21	<0.14	0.26	--	--	--
	12/14/2005	Shallow	<250	<50	<500	3.2	0.014	0.41	<0.13	<0.13	3.0	0.20	0.16	--	--	--
	3/23/2006	Shallow	<250	<50	<500	<0.14	0.026	2.4	<0.13	<0.13	<0.26	1.1	0.097	--	--	--
	6/22/2006	Shallow	<250	<50	<500	0.31	0.013	0.42	<0.13	<0.13	<0.11	0.18	0.089	--	--	--
	9/27/2006	Shallow	<8.2	<13	<19	2.7	0.011	0.33	<0.13	<0.13	0.20	<0.14	0.17	--	--	--
	12/6/2006	Shallow	<250	<50	<500	0.16	0.020	1.1	<0.13	0.35	0.14	**1.5**	0.16	--	--	--
	3/28/2007	Shallow	<250	<50	<500	<0.14	0.0078	2.3	<0.13	0.24	0.52+G303	**0.96**	0.048	--	--	--
	6/28/2007	Shallow	<260	<50	<510	0.19	0.0090	0.29	<0.13	<0.13	<0.11	<0.14	0.030	--	--	--
	9/25/2007	Shallow	<250	<50	<500	0.86	0.0086	0.31	<0.13	<0.13	<0.11	<0.14	0.16	--	--	--
	12/13/2007	Shallow	<11	<13	<19	<0.14	<0.0061	0.32	<0.13	0.56	<0.11	0.62	0.0068	--	--	--
	3/27/2008	Shallow	<250	<50	<500	<0.14	<0.0061	0.30	<0.13	0.31 J	<0.56	**0.84**	<0.0035	--	--	--
	6/24/2008	Shallow	<260	<50	<520	0.13	<0.0061	0.33	<0.042	<0.077	<0.42	0.16	0.018	--	--	--
	9/9/2008	Shallow	<250	<50	<500	0.43	<0.0095	0.17	<0.042	<0.077	0.37	<0.061	0.13	--	--	--
	12/22/2008	Shallow	<270	<50	<5300	0.17	<0.0095	0.63	<0.042	<0.077	<1.2	0.48	0.030	--	--	--
	3/10/2009	Shallow	<250	<50	<500	<0.045	<0.0095	0.43	<0.042	0.25 J	<0.22	**0.77**	<0.0084	--	--	--
	6/16/2009	Shallow	<250	<50	<500	0.10	<0.0095	0.25	<0.050	<0.066	0.080	0.11	<0.0084	--	--	--
	9/2/2009	Shallow	<250	<50	<500	0.15	<0.0095	0.24	<0.050	<0.066	0.060	<0.10	0.030	--	--	--
	12/30/2009	Shallow	<250	<50	<500	<0.038	<0.0095	0.42	<0.050	0.90 J	<0.62	0.50	0.011	--	--	--
	3/10/2010	Shallow	<250	<50	<500	<0.038	<0.0095	0.45	<0.050	0.070 J	1.1	0.33	<0.0084	--	--	--
	6/8/2010	Shallow	<250	18	<500	<0.054	0.0095	1.4	<0.050	<0.066	2.7	0.25	<0.0084	--	--	--
	9/1/2010	Shallow	<44	<50	<81	0.14	<0.0095	0.18	<0.050	<0.099	<0.052	<0.10	0.022	--	--	--
	12/1/2010	Shallow	<13	<50	<53	<0.054	<0.0095	0.32	<0.050	<0.099	<0.74	0.40	<0.0084	--	--	--
	3/9/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	0.33	<0.050	<0.099	0.18	0.18	<0.0045	--	--	--
	6/8/2011	Shallow	<270	<50	<540	<0.054	<0.0059	0.38	<0.050	<0.099	0.80	<0.10	0.010	--	--	--
	9/8/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	0.15	<0.050	<0.099	<0.052	<0.10	0.016	--	--	--
	12/6/2011	Shallow	<280	<50	<550	<0.054	<0.0059	0.18	<0.050	<0.099	<0.052	0.13	0.0087	--	--	--
	6/8/2012	Shallow	<270	<250	27	<0.062	<0.0059	0.20	<0.050	<0.099	<0.054	0.10	<0.0046	--	--	--
	6/4/2013	Shallow	<250	--	<500	0.070	<0.0059	0.25	<0.050	<0.099	<0.054	0.14	0.0097	--	--	<0.16
	6/3/2014	Shallow	<260	--	<510	0.15	<0.0090	0.26	<0.050	<0.099	1.1	<0.10	0.0069	--	--	<0.16
	6/2/2015	Shallow	<130	--	<260	0.87	<0.020	0.12	<0.50	<0.50	0.070	<0.50	0.033	--	--	0.52 J
	6/8/2016	Shallow	<270	--	<5300	0.43	<0.020	0.12	<0.50	<0.50	0.070	<0.50	0.0056	--	--	0.32 J
CTMW-6	6/4/1987	Shallow	--	--	**138000**	**12**	--	--	18	**9.0**	56	5.1	**23**	--	--	--
	6/1/1989	Shallow	--	--	--	**10**	<1.3	2.6	6.4	<0.6	45	1.0	**30**	<1.0	**11**	--
	5/9/1990	Shallow	--	--	--	**8.52**	<2.00	<2.00	6.15	<2.00	40.9	**4.65**	**31.4**	<16	**110**	--
	1/28/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Shallow	<1250	--	--	**12**	<1	1.9	12	<1	60	<2	**7.3**	<1	**9**	--
	6/23/1998	Shallow	<1200	--	--	**9.2**	<1	<1	15	<1	51	<2	**1.0**	<1	<2	--
	9/22/1998	Shallow	**8600**	340	--	**11**	<1	<1	8.1	<1	62	<2	**2.2**	<1	**5.8**	--
	12/18/1998	Shallow	<0.25	590	--	**10**	<1	1.5	10	<1	54	<2	**7.8**	<1	<2	--
	3/24/2000	Shallow	**15900**	530	**5450**	**10.6**	<1.00	1.73	12.1	<1.00	57	<1.00	**6.59**	--	--	--
	9/25/2000	Shallow	--	--	--	**11.1**	<1.00	2.85	8.81	<1.00	66.1	<1.00	**8.5**	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	--	--	--	--	--	--	--	--	--	**7E-06**
CTMW-5	9/28/2005	Shallow	--	**4.5**	2.23	--	0.11	**750**	<0.08	3.52	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Shallow	--	2.9	0.72	--	0.072	**469**	<0.08	18	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Shallow	--	**19.3**	**12.8**	--	2.37	**126**	<0.08	32.7	--	--	--	--	--	--	--	--	--	--
	6/22/2006	Shallow	--	**29.6**	1.93	--	0.377	**537**	<0.02	29.3	--	--	--	--	--	--	--	--	--	--
	9/27/2006	Shallow	--	**12.4**	0.86	--	0.083	**763**	<0.02	8.8	--	--	--	--	--	--	--	--	--	--
	12/6/2006	Shallow	--	**18.7**	**30.6**	--	3.93	**163**	<0.02	84	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Shallow	--	**72.6**	**32.9**	--	5.47	59.1	<0.02	52	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Shallow	--	**15.7**	2.35	--	0.424	**361**	<0.03	18.9	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Shallow	--	**13.4**	0.47	--	0.055	**758**	<0.03	3.6	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Shallow	--	**104**	**30.2**	--	2.81	78.8	<0.03	**395**	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Shallow	--	<18.9	**13.9**	--	2.5	**162**	<0.03	71.2	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Shallow	--	**9.6**	1.37	--	0.226	**458.4**	<0.03	2.9	--	--	--	--	--	--	--	--	--	--
	9/9/2008	Shallow	--	**11.7**	1.522	--	0.204	**895**	<0.05	5.6	--	--	--	--	--	--	--	--	--	--
	12/22/2008	Shallow	--	**23.8**	**7.24**	--	1.037	**230**	<0.05	**104.4**	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	**35.9**	**23.607**	--	2.905	**162**	<0.05	**521.9**	--	--	--	--	--	--	--	--	--	--
	6/16/2009	Shallow	--	**9.9**	2.2	--	0.344	**322**	<0.02	9.9	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Shallow	--	**11.3**	**2.49**	--	0.405	**520**	<0.02	15.4	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Shallow	--	**13.7**	**19.28**	--	2.857	**216**	<0.02	52.9	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Shallow	--	**51.9**	**30.85**	--	4.857	**156**	<0.02	65.9	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	**226.9**	**12.59**	--	2.103	**272**	0.02 J	**136.3**	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Shallow	--	**37.6**	**2.52**	--	0.385	**654**	<0.02	32.9	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	--	**24.9**	**13.16**	--	1.842	**183**	<0.02	**106.7**	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Shallow	--	**66.6**	**13.05**	--	2.827	85.5	<0.02	**235.3**	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Shallow	--	**125.3**	**5.62**	--	1.416	**135**	<0.02	16.3	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Shallow	--	**42.7**	**5.73**	--	0.993	**287**	<0.02	39.5	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Shallow	--	**53.2**	**10.69**	--	1.021	**152**	<0.02	**605.6**	--	--	--	--	--	--	--	--	--	--
	6/8/2012	Shallow	--	**51**	**7.29**	--	1.298	**171**	<0.02	**142.4**	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	**116.7**	**5.23**	--	1.094	--	**0.15 J**	**287.6**	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	**66.95**	**9.9**	--	2.073	--	<0.02	14.08	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	**16.31**	2.27	--	0.373	--	<0.2	3.68	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Shallow	--	**17.3**	**7.75**	--	1.617	--	<0.2	7.7	--	--	--	--	--	--	--	--	--	--
CTMW-6	6/4/1987	Shallow	--	**15**	--	--	**114**	--	--	61	--	--	--	--	--	--	--	--	--	--
	6/1/1989	Shallow	**32**	**35**	**26**	**13**	**172**	--	<0.5	**370**	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	**21**	**22**	--	**83**	--	--	76	--	--	--	--	--	--	--	--	--	--
	1/28/1998	Shallow	--	<0.24	0.83	--	**21**	--	--	20	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Shallow	--	**12.3**	<25	--	<3	--	<1	**199**	<0.05	<0.05	<0.05	<0.05	<0.05	0.18	0.12	--	--	--
	6/23/1998	Shallow	--	**24**	<25	--	**70**	--	<1	**140**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1998	Shallow	--	<10	<25	--	**52**	--	<0.2	**110**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	--	--	--
	12/18/1998	Shallow	--	**14**	**67**	--	<3	--	<0.2	**120**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/24/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/25/2000	Shallow	--	**19.5**	**8.53**	--	**53.4**	11.4	<1	**111**	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-7	5/31/1989	Deep	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.4	<0.8	<1.1	<1.0	**7.9**	--
	5/9/1990	Deep	--	--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<4	<2	--
	4/24/1991	Deep	--	--	--	1.2	<1.0	<1.0	<1.0	<1.0	0.7	<1.0	<2.0	--	--	--
	3/23/1998	Deep	<1250	--	--	<1	<1	<1	<1	<1	17	<2	<1	<1	<2	--
	6/23/1998	Deep	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/22/1998	Deep	<250	<60	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/15/1998	Deep	<0.25	<300	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	3/24/1999	Deep	**570**	<50	--	0.315	<0.01	<0.0500	<1	<0.05	<1	<1	<0.0500	<5	<20	--
	6/22/1999	Deep	<210	<300	--	<1	<0.2	<1	1.5	<0.2	11	<2	<1	<1	<2	--
	9/21/1999	Deep	**6500**	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<0.96	<4.8	--
	12/20/1999	Deep	**1800**	<300	--	<0.20	<0.04	<0.20	**35**	<0.04	<0.40	<0.40	<0.20	<1	<2	--
	3/24/2000	Deep	**3610**	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.92	<24.6	--
	6/13/2000	Deep	409	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/25/2000	Deep	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2000	Deep	**6590**	<50	**760**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/23/2001	Deep	**4550**	<50	**1720**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2001	Deep	**2210**	<50	**829**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/13/2001	Deep	**3660**	<50	<1500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/20/2001	Deep	**4240**	<50	**1020**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/22/2002	Deep	397	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	39.2
	6/17/2002	Deep	443	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	29.3
	9/18/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	18.1
	12/17/2002	Deep	406	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	26.5
	3/20/2003	Deep	**1390**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	35.9
	6/25/2003	Deep	573	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	28.2
	9/16/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	22.7
	12/15/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	27
	3/16/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	25.7
	6/8/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	25
	9/9/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	19.1
	12/7/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	22.5
	3/29/2005	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	25
	6/22/2005	Deep	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	22
	9/28/2005	Deep	<240	<22	<480	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	23
	12/14/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	17
	6/21/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	21
	9/27/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	0.15	<0.14	<0.0023	--	--	24
	12/6/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	21
	3/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	23
	6/28/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	22
	9/26/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	23
	12/11/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	24
	3/26/2008	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	17
	6/24/2008	Deep	<250	<50	<500	<0.045	<0.0061	<0.045	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	22
	9/9/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	0.090	<0.061	<0.0035	--	--	18

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-7	5/31/1989	Deep	--	<5	<10	--	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Deep	--	0.8	**5.3**	--	<20	--	--	6.2	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Deep	<10	<10	**8.2**	<20	<20	--	<0.2	11	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Deep	--	<10	<25	--	<3	--	<1	**372**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/23/1998	Deep	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1998	Deep	--	<10	<25	--	3.2	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	12/15/1998	Deep	--	<10	<25	--	<3	--	<0.2	<20	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--
	3/24/1999	Deep	--	2.38	1.36	--	<1	--	<1	19.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/22/1999	Deep	--	<10	<25	--	<3	**200**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/21/1999	Deep	--	0.6	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/20/1999	Deep	--	0.058	<25	--	<3	**200**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/24/2000	Deep	--	3.35	1.34	--	<1	**117**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/13/2000	Deep	--	4.35	1.44	--	<1	**250**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/25/2000	Deep	--	3.52	2.14	--	<1	**233**	<1	10.5	--	--	--	--	--	--	--	--	--	--
	12/19/2000	Deep	--	2.76	**2.69**	--	<1	**296**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/23/2001	Deep	--	3.02	2.05	--	<1	**252**	<1	10.7	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Deep	--	<1	1.14	--	<1	**272**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Deep	--	1.55	1.75	--	<1	**254**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Deep	--	4.34	1.08	--	<1	**211**	<1	19.9	--	--	--	--	--	--	--	--	--	--
	3/22/2002	Deep	--	2.67	<1	--	<1	--	<1	14	<0.581	<0.581	<0.581	<0.581	<0.581	<0.581	<0.581	<0.581	<0.581	--
	6/17/2002	Deep	--	2.66	<1	--	<1	--	<1	11.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Deep	--	2.74	1.09	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Deep	--	2.25	1.02	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/20/2003	Deep	3.02	1.54	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/25/2003	Deep	3.68	2.37	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/16/2003	Deep	**5.34**	1.46	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/15/2003	Deep	3.96	**8.51**	1.38	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/16/2004	Deep	3.47	1.96	<1	<1	<1	--	0.262	<10	--	--	--	--	--	--	--	--	--	--
	6/8/2004	Deep	3.63	2.12	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/9/2004	Deep	--	2.2	<1	--	<1	**220**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/7/2004	Deep	--	2.05	<1	--	<1	**241**	**<0.5**	<10	--	--	--	--	--	--	--	--	--	--
	3/29/2005	Deep	--	2.16	<1	--	<1	**238**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/22/2005	Deep	--	11.4	1.8	--	0.17	**200**	<0.2	2	--	--	--	--	--	--	--	--	--	--
	9/28/2005	Deep	--	0.14	0.511	--	0.013	**211**	<0.08	0.31	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Deep	--	0.12	0.47	--	0.041	**168**	<0.08	5.5	--	--	--	--	--	--	--	--	--	--
	6/21/2006	Deep	--	3.1	0.5	--	0.01	**238**	**0.04**	4.4	--	--	--	--	--	--	--	--	--	--
	9/27/2006	Deep	--	**9.44**	1.11	--	0.154	**231**	0.02	5	--	--	--	--	--	--	--	--	--	--
	12/6/2006	Deep	--	2.78	0.49	--	0.089	**221**	**0.03**	5.5	--	--	--	--	--	--	--	--	--	--
	3/27/2007	Deep	--	**6.88**	0.43	--	0.061	**265**	**0.05**	4	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Deep	--	**11.4**	0.4	--	0.012	**256**	**0.04**	4.09	--	--	--	--	--	--	--	--	--	--
	9/26/2007	Deep	--	2.3	0.54	--	<0.009	**283**	<0.03	0.96	--	--	--	--	--	--	--	--	--	--
	12/11/2007	Deep	--	3	0.26	--	<0.013	**250**	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/26/2008	Deep	--	<2	0.25	--	0.025	**247**	<0.03	2.1	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Deep	--	<6	0.33	--	0.166	**250.5**	<0.03	2.4	--	--	--	--	--	--	--	--	--	--
	9/9/2008	Deep	--	<0.8	0.311	--	0.019	**261**	<0.05	1.4	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-7	12/22/2008	Deep	<260	<50	<520	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	18
	3/11/2009	Deep	<260	<50	<510	0.19	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	19
	6/10/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	17
	9/2/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	31
	12/29/2009	Deep	<250	<50	<500	0.11	<0.0095	<0.067	<0.050	<0.066	<0.27	<0.10	<0.0084	--	--	22
	3/10/2010	Deep	<250	<50	<500	0.080	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	25
	6/15/2010	Deep	<250	<50	<500	<0.054	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	31
	9/2/2010	Deep	<15	<50	<540	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	36
	12/2/2010	Deep	<21	<50	<30	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	44
	3/10/2011	Deep	<270	<50	<5300	0.070	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	44
	6/9/2011	Deep	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	43
	9/9/2011	Deep	<270	<50	<540	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	43
	12/7/2011	Deep	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	50
	6/11/2012	Deep	21	<250	<5300	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	51
	6/6/2013	Deep	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	61
	6/4/2014	Deep	<260	--	<520	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	34
	6/3/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	34
	6/9/2016	Deep	<260	--	<520	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	29
CTMW-8	5/31/1989	Shallow	--	--	--	0.8	<1.3	<1.2	<1.0	<0.6	2.6	<0.8	<1.1	<1.0	**9.0**	--
	5/9/1990	Shallow	--	--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<4	**3**	--
	4/24/1991	Shallow	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	10	<1.0	<2.0	--	--	--
	3/24/1998	Shallow	<1250	--	--	<1	<1	<1	1.3	<1	<2	<2	<1	<1	<2	--
	6/24/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/22/1998	Shallow	<250	<60	--	<13	<13	<13	<13	<13	<25	<25	<13	<1	**3.2**	--
	12/14/1998	Shallow	<0.25	<100	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	3/22/1999	Shallow	<250	<50	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	6/23/1999	Shallow	<200	<300	--	<1	<0.2	<1	<1	<0.2	7.6	<2	<1	<1	<2	--
	9/21/1999	Shallow	--	<300	--	<1	<0.2	<1	1.4	<0.2	6.9	<2	<1	--	--	--
	9/23/1999	Shallow	**8200**	--	--	--	--	--	--	--	--	--	--	<200	**8900**	--
	12/9/1999	Shallow	16	<300	--	<0.20	<0.04	<0.20	1.4	<0.04	10	<0.40	<0.20	<1	<2	--
	3/21/2000	Shallow	<213	<50	<639	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.74	<23.7	--
	6/13/2000	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/21/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	1.61	<1.00	<1.00	--	--	--
	12/15/2000	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	1.03	<1.00	<1.00	--	--	--
	3/22/2001	Shallow	314	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/19/2001	Shallow	411	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/12/2001	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	1.52	<1.00	<1.00	--	--	--
	12/21/2001	Shallow	**874**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/25/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	6/18/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.36	<1.00	<1.00	--	--	<1.00
	9/18/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	2.37	<1.00	<1.00	--	--	--
	12/18/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.03	<1.00	<1.00	--	--	--
	6/24/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-7	12/22/2008	Deep	--	2	0.189	--	0.018	**272**	<0.05	1.6	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Deep	--	<2	0.206	--	0.046	**306**	<0.05	2.1	--	--	--	--	--	--	--	--	--	--
	6/10/2009	Deep	--	<0.5	0.21	--	0.032	**270**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Deep	--	1	0.21	--	<0.005	**336**	<0.02	2.3	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Deep	--	<2	0.3	--	0.021	**341**	<0.02	1.1	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Deep	--	<1	0.11	--	0.023	**320**	<0.02	1.8	--	--	--	--	--	--	--	--	--	--
	6/15/2010	Deep	--	<0.7	0.59	--	0.333	**388**	0.02	12.2	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Deep	--	1	0.3	--	0.015	**478**	<0.02	4.6	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Deep	--	<1	0.34	--	<0.016	**396**	<0.02	1.7	--	--	--	--	--	--	--	--	--	--
	3/10/2011	Deep	--	<0.8	0.29	--	<0.039	**321**	<0.02	1.8	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Deep	--	0.8	0.56	--	<0.013	**293**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/9/2011	Deep	--	0.21	0.221	--	<0.116	**310.4**	<0.02	1.7	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Deep	--	0.18	0.16	--	<0.019	**278**	<0.02	2.8	--	--	--	--	--	--	--	--	--	--
	6/11/2012	Deep	--	0.11	0.148	--	0.016	**255.9**	<0.02	2.3	--	--	--	--	--	--	--	--	--	--
	6/6/2013	Deep	--	0.15	0.143 J	--	<0.018	--	0.05	1.5	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Deep	--	0.13	0.146	--	<0.013	--	<0.02	1	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Deep	--	0.39	0.08 J	--	0.002	--	<0.2	2.16	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Deep	--	0.08	0.105	--	<0.04	--	<0.2	1.34	--	--	--	--	--	--	--	--	--	--
CTMW-8	5/31/1989	Shallow	<5	<5	<10	<2	**14**	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	1.1	**13**	--	<20	--	--	<1	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Shallow	<10	<10	**8.6**	**28**	**36**	--	<0.2	<2	--	--	--	--	--	--	--	--	--	--
	3/24/1998	Shallow	--	<10	<25	--	**14**	--	<1	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	6/24/1998	Shallow	--	<10	<25	--	**12**	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1998	Shallow	--	<10	**71**	--	**210**	--	<0.2	42	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/14/1998	Shallow	--	<10	<25	--	**47**	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	3/22/1999	Shallow	--	4.85	**15.4**	--	**37.9**	--	<1	16.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/23/1999	Shallow	--	<10	<25	--	**12**	24	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/21/1999	Shallow	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	9/23/1999	Shallow	--	3.1	<25	--	**20**	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/9/1999	Shallow	--	1.1	<25	--	<3	15	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	3/21/2000	Shallow	--	1	1.71	--	5.14	20	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/13/2000	Shallow	--	1.28	1.85	--	4.45	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow	--	4.02	**6.8**	--	**37.1**	20	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/15/2000	Shallow	--	3.6	**3.15**	--	4.81	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/22/2001	Shallow	--	2.46	2.15	--	3.79	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/19/2001	Shallow	--	1.74	**3.09**	--	3.17	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/12/2001	Shallow	--	3.2	**2.77**	--	4.01	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/21/2001	Shallow	--	4.19	**4.1**	--	2.04	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/25/2002	Shallow	--	1.81	**2.94**	--	3.56	--	<1	10.2	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/18/2002	Shallow	--	2.54	1.76	--	1.38	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Shallow	--	**6.37**	2.1	--	2.38	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2002	Shallow	--	4.78	**3.23**	--	3.14	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2003	Shallow	2.57	2.35	1.38	**9.92**	1.77	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/24/2003	Shallow	3.18	3.21	1.16	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-8	9/17/2003	Shallow	**543**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.41	<1.00	<1.00	--	--	--
	12/12/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	2.37	<1.00	<1.00	--	--	--
	3/15/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.42	<1.00	<1.00	--	--	--
	6/8/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.93	<1.00	<1.00	--	--	--
	9/8/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	4.05	<1.00	<1.00	--	--	--
	12/7/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	3.14	<1.00	<1.00	--	--	--
	3/30/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	1.17	<1.00	<1.00	--	--	--
	6/22/2005	Shallow	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	0.93	<0.14	<0.0081	--	--	--
	9/26/2005	Shallow	<250	--	<500	--	--	--	--	--	--	--	--	--	--	--
	9/30/2005	Shallow	--	<50	--	0.29	0.0048	<0.12	0.18	<0.13	3.9	<0.14	0.012	--	--	--
	12/13/2005	Shallow	<250	<50	<500	0.16	<0.0047	<0.12	<0.13	<0.13	2.4	<0.14	<0.0081	--	--	--
	3/23/2006	Shallow	<250	<50	<500	0.15	<0.0047	<0.12	<0.13	<0.13	1.6	<0.14	0.011	--	--	--
	6/19/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	0.70	<0.14	0.0085	--	--	--
	9/25/2006	Shallow	<8.2	<13	<19	0.24	<0.0066	<0.12	<0.13	<0.13	3.6	<0.14	0.0098	--	--	--
	12/4/2006	Shallow	<250	<50	<500	0.25	<0.0066	<0.12	<0.13	<0.13	2.7	<0.14	0.018	--	--	--
	3/26/2007	Shallow	<250	<50	<500	0.19	<0.0066	<0.12	<0.13	<0.13	2.4	<0.14	0.0072	--	--	--
	6/27/2007	Shallow	<250	<50	<500	0.15	<0.0066	<0.12	<0.13	<0.13	1.6	<0.14	0.0065	--	--	--
	9/24/2007	Shallow	<250	<50	<500	0.27	<0.0061	<0.12	<0.13	<0.13	3.4	<0.14	0.011	--	--	--
	12/13/2007	Shallow	<11	<13	<19	0.18	<0.0061	<0.12	<0.13	<0.13	2.2	<0.14	0.0098	--	--	--
	3/25/2008	Shallow	<260	<50	<520	0.16	<0.0061	<0.12	<0.13	<0.13	<2.2	<0.14	0.0082	--	--	--
	6/24/2008	Shallow	<260	<50	<520	0.15	<0.0061	<0.045	0.050 J	<0.077	<1.3	<0.061	0.0079	--	--	--
	9/10/2008	Shallow	<260	<50	<520	0.20	<0.0095	<0.045	0.070 J	<0.077	2.9	<0.061	0.0090	--	--	--
	12/15/2008	Shallow	<250	<50	<500	0.17	<0.0095	<0.045	0.060 J	<0.077	<2.9	<0.061	0.0090	--	--	--
	3/11/2009	Shallow	<250	<50	<500	0.10	<0.0095	<0.045	0.050 J	<0.077	1.2	<0.061	<0.0084	--	--	--
	6/16/2009	Shallow	<250	<50	<500	0.10	<0.0095	<0.067	<0.050	<0.066	0.86	<0.10	<0.0084	--	--	--
	9/1/2009	Shallow	<250	<50	<500	0.23	<0.0095	<0.067	0.070 J	<0.066	2.8	<0.10	0.0094	--	--	--
	12/30/2009	Shallow	<260	<50	<520	0.12	<0.0095	<0.067	0.050 J	<0.066	1.8	<0.10	<0.0084	--	--	--
	3/9/2010	Shallow	<250	<50	<500	0.070	<0.0095	<0.067	<0.050	<0.066	0.73	<0.10	<0.0084	--	--	--
	6/9/2010	Shallow	<250	<50	<500	0.060	<0.0095	<0.067	<0.050	<0.066	0.79	<0.10	<0.0084	--	--	0.24 J
	9/2/2010	Shallow	<15	<14	<42	0.12	<0.0095	<0.067	<0.050	<0.099	1.3	<0.10	<0.0084	--	--	0.34 J
	12/2/2010	Shallow	<13	<50	<5300	0.12	<0.0095	<0.067	0.050 J	<0.099	<1.4	<0.10	<0.0084	--	--	<0.16
	3/9/2011	Shallow	<270	<50	<540	0.070	<0.0059	<0.067	<0.050	<0.099	0.79	<0.10	<0.0045	--	--	<0.16
	6/9/2011	Shallow	<250	<50	<500	<0.054	<0.0059	<0.067	<0.050	<0.099	0.64	<0.10	<0.0045	--	--	<0.16
	9/7/2011	Shallow	<270	<50	<5300	0.13	<0.0059	<0.067	<0.050	<0.099	1.7	<0.10	0.0058	--	--	--
	12/7/2011	Shallow	<270	<50	<5300	0.14	<0.0059	<0.067	0.050 J	<0.099	1.3	<0.10	0.0046	--	--	--
	6/5/2012	Shallow	16	<250	<520	0.070	<0.0059	0.10	<0.050	<0.099	0.68	<0.10	<0.0046	--	--	--
	6/4/2013	Shallow	<250	--	<500	<0.062	<0.0059	0.14	<0.050	<0.099	<0.47	<0.10	<0.0046	--	--	<0.16
	6/3/2014	Shallow	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	0.68	<0.10	<0.0046	--	--	<0.16
	6/2/2015	Shallow	<130	--	<260	0.090	<0.020	<0.50	<0.50	<0.50	0.86	<0.50	0.0055	--	--	<0.16
	6/8/2016	Shallow	<260	--	<520	0.12	<0.020	<0.50	<0.50	<0.50	0.98	<0.50	<0.020	--	--	<0.16

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-8	9/17/2003	Shallow	**7.18**	**7.06**	**2.46**	1.29	3.07	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/12/2003	Shallow	**7.67**	**6.48**	1.67	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/15/2004	Shallow	3.51	3.59	1.79	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/8/2004	Shallow	3.41	3.35	1.64	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/8/2004	Shallow	--	**5.67**	**3.2**	--	1.34	11.4	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/7/2004	Shallow	--	**7.56**	**5.03**	--	**10.7**	**539**	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Shallow	--	4.2	2.09	--	6.05	11	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/22/2005	Shallow	--	2.6	**4.2**	--	1.56	0.31	<0.2	1	--	--	--	--	--	--	--	--	--	--
	9/26/2005	Shallow	--	1.07	0.396	--	0.482	0.2	<0.08	0.74	--	--	--	--	--	--	--	--	--	--
	9/30/2005	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Shallow	--	0.35	**3.58**	--	0.436	0.14	<0.08	2.43	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Shallow	--	<4.45	**3.7**	--	0.68	0.3	<0.08	5.68	--	--	--	--	--	--	--	--	--	--
	6/19/2006	Shallow	--	2.5	2.23	--	0.417	0.54	0.02	1.6	--	--	--	--	--	--	--	--	--	--
	9/25/2006	Shallow	**7.07**	**6.92**	**2.99**	0.048	0.147	0.175	**0.03**	4.7	--	--	--	--	--	--	--	--	--	--
	12/4/2006	Shallow	**13.9**	**13.5**	**4.68**	0.77	3.4	0.593	**0.05**	2.8	--	--	--	--	--	--	--	--	--	--
	3/26/2007	Shallow	**5.25**	**5.31**	1.56	0.043	0.218	0.09	**0.04**	2.2	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Shallow	--	3.63	**2.45**	--	0.605	0.79	<0.03	0.99	--	--	--	--	--	--	--	--	--	--
	9/24/2007	Shallow	**5.4**	**5.3**	0.7	0.061	0.206	0.23	**0.03**	2.2	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Shallow	<6	**6**	**4.1**	<0.049	1.41	2.69	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Shallow	<4	<4	2	0.052	0.476	0.367	<0.03	0.77	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Shallow	--	<3	**2.71**	--	0.541	0.64	<0.03	0.8	--	--	--	--	--	--	--	--	--	--
	9/10/2008	Shallow	4.6	<4.8	**3.068**	0.051	0.501	1.4	<0.05	1.6	--	--	--	--	--	--	--	--	--	--
	12/15/2008	Shallow	**5.7**	**6**	1.437	0.037	0.07	0.046	<0.05	0.5	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Shallow	3.2	3.1	1.827	0.124	0.49	0.246	<0.05	1.2	--	--	--	--	--	--	--	--	--	--
	6/16/2009	Shallow	--	2	1.6	--	0.191	0.152	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/1/2009	Shallow	--	3.6	1.55	--	0.064	0.061	<0.02	0.6	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Shallow	2.9	2.8	2.3	0.062	0.14	0.153	<0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Shallow	2.2	2.1	1.71	0.125	0.289	0.176	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Shallow	--	2.3	1.01	--	0.573	0.29	0.02	1.7	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Shallow	2.1	1.7	1.09	0.243	0.343	1.2	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Shallow	--	2.5	1.2	--	0.214	0.217	<0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Shallow	--	1.3	0.82	--	0.338	0.202	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Shallow	--	1	0.99	--	0.275	0.206	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	9/7/2011	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Shallow	2.3	2.3	1.99	0.207	0.321	0.123	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	1	1.25	--	0.406	--	<0.02	0.6	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	1.04	0.33	--	1.014	--	<0.02	0.49 J	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	1.22	0.17	--	0.158	--	<0.2	0.54	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Shallow	--	1.6	0.6	--	0.281	--	<0.2	0.52	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-9	5/31/1989	Deep	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	<0.6	<0.8	<1.1	<1.0	**25**	--
	5/9/1990	Deep	--	--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<4	<2	--
	4/24/1991	Deep	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--
	3/24/1998	Deep	<1250	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	**3.7**	--
	6/24/1998	Deep	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/22/1998	Deep	**820**	<60	--	<13	<13	<13	<13	<13	<25	<25	<13	<1	<2	--
	12/14/1998	Deep	**740**	<10	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	3/22/1999	Deep	**3200**	<50	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	6/23/1999	Deep	**890**	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1	<2	--
	9/21/1999	Deep	**19000**	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1.0	<5.2	--
	12/20/1999	Deep	**4200**	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	1.4	<0.40	<0.20	<1	<2	--
	3/21/2000	Deep	**3620**	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<49.8	<249	--
	6/13/2000	Deep	**1460**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/21/2000	Deep	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/15/2000	Deep	**16900**	<50	<5500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/20/2001	Deep	**15200**	<50	**4150**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/19/2001	Deep	**12700**	<50	**959**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/12/2001	Deep	**12300**	<50	**3460**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/21/2001	Deep	**16600**	<50	**2160**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	--	--
	3/22/2002	Deep	**857**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	103
	6/18/2002	Deep	**800**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	139
	9/18/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	44.3
	12/18/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2003	Deep	**3830**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	71.9
	6/24/2003	Deep	**4280**	<50	**589**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	24.8
	9/17/2003	Deep	**863**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	222
	12/12/2003	Deep	422	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	501
	3/15/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	117
	6/8/2004	Deep	367	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	123
	9/8/2004	Deep	475	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	85.2
	12/7/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	88.3
	3/30/2005	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	118
	6/22/2005	Deep	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	50
	9/27/2005	Deep	<250	<22	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	95
	12/13/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	35
	3/23/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	54
	6/19/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	51
	9/26/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0027	--	--	64
	12/4/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0031	--	--	53
	3/26/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	70
	6/28/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	60
	9/24/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	77
	12/13/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	66
	3/25/2008	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.24	<0.14	0.0037	--	--	58
	6/24/2008	Deep	<250	<50	<500	0.050	<0.0061	0.090	<0.042	<0.077	0.42<	<0.061	<0.0035	--	--	65

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-9	5/31/1989	Deep	**9**	<5	**38**	<2	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Deep	--	<0.7	**6.9**	--	<20	--	--	<1	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Deep	<10	<10	<5	<20	<20	--	<0.2	<2	--	--	--	--	--	--	--	--	--	--
	3/24/1998	Deep	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/24/1998	Deep	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1998	Deep	--	<10	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/14/1998	Deep	--	<10	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/22/1999	Deep	--	**8.35**	**9.98**	--	2.36	--	<1	24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/23/1999	Deep	--	<10	<25	--	<3	**2800**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/21/1999	Deep	--	0.78	<25	--	<3	--	0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/20/1999	Deep	--	0.052	<25	--	<3	**2400**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/21/2000	Deep	--	**6.44**	**4.22**	--	<1	**1130**	<0.2	15.3	--	--	--	--	--	--	--	--	--	--
	6/13/2000	Deep	--	**12.8**	**4.15**	--	<1	**3010**	**1.09**	13.3	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Deep	--	**7.67**	**5.87**	--	<1	**2240**	<1	13.6	--	--	--	--	--	--	--	--	--	--
	12/15/2000	Deep	--	**7.64**	**5.16**	--	<1	**2080**	<1	10.6	--	--	--	--	--	--	--	--	--	--
	3/20/2001	Deep	--	**12**	**4.94**	--	<1	**2160**	<1	16.6	--	--	--	--	--	--	--	--	--	--
	6/19/2001	Deep	--	1.61	**4.95**	--	<1	**2460**	<1	10.3	--	--	--	--	--	--	--	--	--	--
	9/12/2001	Deep	--	3.25	**3.82**	--	<1	**1960**	<1	10.5	--	--	--	--	--	--	--	--	--	--
	12/21/2001	Deep	--	**11.6**	1.98	--	<1	**2000**	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	3/22/2002	Deep	--	**7.91**	1.78	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/18/2002	Deep	--	**7.51**	1.55	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Deep	--	**7.88**	**8.16**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2002	Deep	--	**6.67**	**2.4**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2003	Deep	**11.2**	4.65	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/24/2003	Deep	**9.66**	4.72	1.39	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/17/2003	Deep	**28.1**	4.28	1.98	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/12/2003	Deep	**16.5**	**18.6**	1.5	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/15/2004	Deep	**14.8**	**5.92**	1.9	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/8/2004	Deep	**13.4**	**5.45**	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/8/2004	Deep	--	**6.02**	1.52	--	<1	**1600**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/7/2004	Deep	--	0.051	1.91	--	<1	**2170**	<0.5	10.5	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Deep	--	0.054	1.2	--	<1	**1520**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/22/2005	Deep	--	0.022	**2.4**	--	0.14	**2710**	**0.3**	0.5	--	--	--	--	--	--	--	--	--	--
	9/27/2005	Deep	--	0.028	0.641	--	<0.04	**1650**	**0.21**	0.2	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Deep	--	0.24	1.15	--	0.042	**1280**	**0.16**	2.12	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Deep	--	**37.1**	1.07	--	0.02	**2580**	**0.19**	3.68	--	--	--	--	--	--	--	--	--	--
	6/19/2006	Deep	--	**6.4**	1.7	--	<0.008	**1710**	**0.12**	1.4	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Deep	--	**41.3**	1.27	--	0.082	**1550**	**0.14**	4.7	--	--	--	--	--	--	--	--	--	--
	12/4/2006	Deep	--	**14.6**	0.69	--	<0.069	**1580**	**0.14**	1.9	--	--	--	--	--	--	--	--	--	--
	3/26/2007	Deep	--	**31.3**	0.9	--	0.057	**1610**	**0.15**	2.9	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Deep	--	**79.9**	1.42	--	0.694	**1590**	**0.13**	18.2	--	--	--	--	--	--	--	--	--	--
	9/24/2007	Deep	--	**11.6**	0.48	--	<0.008	**1540**	**0.09**	1.5	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Deep	--	**12**	0.56	--	<0.013	**1480**	**0.12**	2.7	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Deep	--	<9	0.51	--	0.027	**1580**	**0.06**	1.8	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Deep	<25	<25	0.99	0.152	0.118	**1410**	**0.06**	2	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-9	9/10/2008	Deep	<250	<50	<500	<0.045	2.24	<0.045	<0.042	<0.077	0.090	<0.061	**2.23**	--	--	58
	12/15/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	61
	3/11/2009	Deep	<250	<50	<500	<0.045	<0.0095	0.070	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	60
	6/16/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	72
	9/1/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	87
	12/30/2009	Deep	<250	<50	<500	<0.038	<0.0095	0.070	<0.050	<0.066	<0.33	<0.10	<0.0084	--	--	62
	3/9/2010	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	54
	6/9/2010	Deep	<260	<50	<510	<0.054	<0.0095	<0.067	<0.050	<0.066	0.11	<0.10	<0.0084	--	--	53
	9/2/2010	Deep	89	<50	<52	<0.054	<0.0095	<0.067	<0.050	<0.099	0.070	<0.10	<0.0084	--	--	47
	12/2/2010	Deep	<24	<50	<23	<0.054	<0.0095	0.080	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	50
	3/9/2011	Deep	<270	<50	<540	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	42
	6/9/2011	Deep	<270	<50	<540	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	58
	9/7/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	54
	12/7/2011	Deep	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	58
	6/5/2012	Deep	40	<250	23	<0.062	<0.0059	<0.08	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	56
	6/4/2013	Deep	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	69
	6/3/2014	Deep	<250	--	<500	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	50
	6/2/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	42
	6/8/2016	Deep	<270	--	<5300	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	44
CTMW-10	6/1/1989	Shallow	--	--	--	**2.3**	<1.3	<1.2	3.4	<0.6	1.3	<0.8	<1.1	**0.8**	**4.7**	--
	5/9/1990	Shallow	--	--	--	**6.68**	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<32	**660**	--
	1/28/1998	Shallow	--	--	--	<0.758	<0.758	<0.758	4.2	<0.758	<1.516	<1.516	<0.758	<0.990	<5	--
	3/26/1998	Shallow	<1250	--	--	<1	<1	<1	2.8	<1	<2	<2	<1	<1	<2	--
	6/25/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/24/1998	Shallow	**1800**	340	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/16/1998	Shallow	<0.25	310	--	<1	<1	<1	13	<1	16	<2	<1	<1	<2	--
	3/24/2000	Shallow	**2720**	310	<750	<1.00	<1.00	<1.00	1.26	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/26/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
CTMW-11	5/31/1989	Shallow	--	--	--	0.6	<1.3	<1.2	<1.0	<0.6	1.6	<0.8	<1.1	<1.0	**24**	--
	5/9/1990	Shallow	--	--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<5	**10**	--
	4/24/1991	Shallow	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<2.0	--	--	--
	3/26/1998	Shallow	<1250	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	6/25/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	6/26/1998	Shallow	<1200	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/24/1998	Shallow	<250	<300	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/18/1998	Shallow	<750	<300	--	<1	<1	<1	<1	<1	3.8	<2	<1	<1	<2	--
	3/23/1999	Shallow	<250	130	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	6/24/1999	Shallow	<200	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1	<2	--
	9/23/1999	Shallow	--	<300	--	**25**	<0.2	**34**	6.9	<0.2	50	**3.8**	**20**	<0.98	<4.9	--
	9/24/1999	Shallow	**650**	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/1999	Shallow	**610**	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	1.0	<0.40	<0.20	<1	**7.6**	--
	3/23/2000	Shallow	<250	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.20	<26.0	--
	6/14/2000	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/22/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/13/2000	Shallow	443	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-9	9/10/2008	Deep	--	<3	0.703	--	0.013	**1440**	0.01	2	--	--	--	--	--	--	--	--	--	--
	12/15/2008	Deep	--	<3	0.397	--	0.011	**1280**	<0.05	0.9	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Deep	--	<3	0.496	--	0.048	**1190**	<0.05	1.6	--	--	--	--	--	--	--	--	--	--
	6/16/2009	Deep	--	<2	0.47	--	0.012	**1300**	0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/1/2009	Deep	--	<3	0.53	--	<0.014	**1400**	0.02 J	0.4	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Deep	--	<4	0.79	--	0.009	**1500**	**0.03 J**	0.4 J	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Deep	--	<3	0.46	--	0.027	**1540**	0.02 J	0.7	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Deep	--	<2.5	0.48	--	<0.073	**1260**	0.02	1	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Deep	--	3	0.45	--	0.025	**1330**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Deep	--	<3	0.47	--	<0.011	**1200**	0.02 J	1.2	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Deep	--	<1.9	0.57	--	<0.036	**975**	0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Deep	--	2	0.56	--	<0.013	**1140**	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	9/7/2011	Deep	--	0.18	0.32	--	<0.116	**1044.13**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Deep	--	0.21	0.139	--	<0.019	**1100**	<0.02	0.7 J	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Deep	--	0.18	0.116	--	<0.009	**926.4**	<0.02	0.2 J	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Deep	--	0.17	0.121	--	<0.023	--	0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Deep	--	0.2	0.193	--	<0.011	--	<0.02	0.32 J	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Deep	--	0.71	0.14	--	0.005	--	**0.03 J**	0.38 J	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Deep	--	0.12	0.196	--	<0.04	--	<0.2	0.36 J	--	--	--	--	--	--	--	--	--	--
CTMW-10	6/1/1989	Shallow	**8**	**12**	**16**	5	**22**	--	<0.5	13	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	2.2	**32**	--	<20	--	--	<1	--	--	--	--	--	--	--	--	--	--
	1/28/1998	Shallow	--	**1380**	**609**	--	**23800**	--	--	**968**	<0.235	<0.235	<0.235	4.60	<0.235	1.69	0.564	--	--	--
	3/26/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/25/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	12/16/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	3/24/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/26/2000	Shallow	--	1.36	<1	--	<1	**249**	<1	<10	--	--	--	--	--	--	--	--	--	--
CTMW-11	5/31/1989	Shallow	<5	<5	<10	3	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	3.1	**6.5**	--	<20	--	--	<1	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Shallow	<10	<10	<5	**23**	**20**	--	<0.2	4.5	--	--	--	--	--	--	--	--	--	--
	3/26/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	6/25/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	12/18/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/23/1999	Shallow	--	2.51	<1	--	<1	--	<1	12.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/24/1999	Shallow	--	<10	<25	--	<3	**120**	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	9/23/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/24/1999	Shallow	--	0.45	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/14/1999	Shallow	--	1.2	<25	--	<3	90	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/23/2000	Shallow	--	1.55	<1	--	<1	**202**	<0.0125	<10	--	--	--	--	--	--	--	--	--	--
	6/14/2000	Shallow	--	1.05	<1.69	--	<1	**109**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/22/2000	Shallow	--	3.38	2.09	--	2.42	67.7	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/13/2000	Shallow	--	2.29	1.38	--	<1	15.8	<1	<10	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-11	3/21/2001	Shallow	451	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2001	Shallow	394	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/14/2001	Shallow	288	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2001	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/27/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	6/20/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	9/19/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/24/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/16/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/16/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/10/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/8/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/9/2004	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Shallow	<250	<50	**697**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/29/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2005	Shallow	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/29/2005	Shallow	<270	<22	<530	0.20	<0.0047	<0.12	<0.13	<0.13	0.75	<0.14	0.0085	--	--	--
	12/12/2005	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	6/19/2006	Shallow	<250	<50	**609**	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/28/2006	Shallow	<8.2	<13	**656**	0.20	<0.0066	<0.12	<0.13	<0.13	0.65	<0.14	<0.0023	--	--	--
CTMW-11R	6/29/2007	Shallow	<250	<50	**3070**	<0.14	<0.0066	<0.12	<0.13	<0.13	0.11	<0.14	0.018	--	--	--
	9/26/2007	Shallow	<250	<50	**1480**	<0.14	<0.0061	0.19	<0.13	<0.13	0.11	<0.14	0.031	--	--	--
	12/13/2007	Shallow	<11	<13	**2710**	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	0.028	--	--	--
	3/27/2008	Shallow	<260	<50	**1260**	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.39	<0.14	0.017	--	--	--
	6/25/2008	Shallow	<250	<50	**1100**	0.060	<0.0061	0.2	<0.042	<0.077	<0.42	<0.061	0.038	--	--	--
	9/10/2008	Shallow	<250	<50	**827**	0.050	<0.0095	0.17	<0.042	0.08 J	0.12	0.080	0.050	--	--	--
	12/23/2008	Shallow	<250	<50	**2240**	0.080	<0.0095	0.17	<0.042	<0.077	<1.3	<0.061	0.059	--	--	--
	3/12/2009	Shallow	<250	<50	**6710**	<0.045	<0.0095	0.1	<0.042	<0.077	<0.048	<0.061	0.021	--	--	--
	6/11/2009	Shallow	<260	<50	**7920**	<0.060	<0.0095	0.11	<0.050	<0.066	<0.052	<0.10	0.054	--	--	--
	9/3/2009	Shallow	<260	<50	**5380**	0.060	<0.0095	0.2	<0.050	0.11 J	0.060	0.11	<0.041	--	--	--
	12/29/2009	Shallow	<250	<50	**1410**	<0.038	<0.0095	0.15	<0.050	<0.066	<0.24	<0.10	0.035	--	--	--
	3/11/2010	Shallow	<250	<50	**1400**	<0.038	<0.0095	0.1	<0.050	<0.066	<0.052	<0.10	0.0093	--	--	--
	6/9/2010	Shallow	<250	<50	<500	<0.054	<0.0095	<0.16	<0.050	<0.066	0.26	<0.10	0.12	--	--	--
	9/2/2010	Shallow	<270	<50	<5300	<0.054	<0.0095	0.16	<0.050	<0.099	<0.052	<0.10	0.029	--	--	--
	12/2/2010	Shallow	<19	<50	<25	<0.054	<0.0095	0.17	<0.050	<0.099	<0.74	<0.10	0.066	--	--	--
	3/9/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	0.13	<0.050	<0.099	<0.052	<0.10	0.059	--	--	--
	6/9/2011	Shallow	<250	<50	<500	<0.054	0.0061	0.11	<0.050	<0.099	<0.052	<0.10	0.090	--	--	--
	9/7/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	0.1	<0.050	<0.099	<0.052	<0.10	0.018	--	--	--
	12/7/2011	Shallow	<270	<50	<540	<0.054	<0.0059	0.13	<0.050	<0.099	<0.052	<0.10	0.025	--	--	--
	6/11/2012	Shallow	<260	<250	<22	<0.062	<0.0059	0.16	<0.050	<0.099	<0.054	<0.10	0.053	--	--	--
	6/5/2013	Shallow	<250	--	<500	<0.062	<0.0059	0.1	<0.050	<0.099	<0.054	<0.10	0.025	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-11	3/21/2001	Shallow	--	3.2	<1	--	<1	40.5	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2001	Shallow	--	2.98	<1	--	<1	34.2	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Shallow	--	<1	<1	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2001	Shallow	--	**5.34**	<1	--	<1	**156**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/27/2002	Shallow	--	4.89	<1	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/20/2002	Shallow	--	2.81	<1	--	<1	--	<1	11.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/19/2002	Shallow	--	3.06	<1	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2002	Shallow	--	**112**	**335**	--	**212**	--	<1	**548**	--	--	--	--	--	--	--	--	--	--
	3/21/2003	Shallow	**6.34**	**7.5**	**5.21**	<1	2.73	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/24/2003	Shallow	**9.37**	**24.2**	**60**	<1	**28.2**	--	<1	**95.6**	--	--	--	--	--	--	--	--	--	--
	12/16/2003	Shallow	2.82	2.53	1.44	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/16/2004	Shallow	4.2	4.52	2.39	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/10/2004	Shallow	**13.1**	**13.8**	2.38	<1	<1	--	<0.2	13.2	--	--	--	--	--	--	--	--	--	--
	9/8/2004	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/9/2004	Shallow	--	**10.1**	1.87	--	<1	20.7	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Shallow	--	1.8	1.41	--	<1	**1350**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	3/29/2005	Shallow	3.9	3.49	<1	<1	<1	**1240**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2005	Shallow	--	4.4	1.3	--	0.1	**999**	<0.2	1.1	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Shallow	**13**	1.4	**2.92**	0.03	0.77	86.6	<0.08	5.51	--	--	--	--	--	--	--	--	--	--
	12/12/2005	Shallow	--	3.9	0.76	--	0.09	**1830**	<0.08	2.01	--	--	--	--	--	--	--	--	--	--
	6/19/2006	Shallow	1.3	**6.6**	1.5	--	0.192	**1340**	<0.2	1.8	--	--	--	--	--	--	--	--	--	--
	9/28/2006	Shallow	0.9	**22.9**	**4.7**	0.000039	0.352	30.2	0.3	5.7	--	--	--	--	--	--	--	--	--	--
CTMW-11R	6/29/2007	Shallow	0.4	0.95	**3.2**	--	0.642	0.49	< 0.3	<0.01	--	--	--	--	--	--	--	--	--	--
	9/26/2007	Shallow	**7.2**	0.18	1.1	0.000124	0.073	0.234	<0.3	0.73	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Shallow	**5.5**	--	1.29	<0.000066	<0.073	0.72	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Shallow	1.98	3.9	0.92	<0.000003	0.058	**564**	<0.03	2.2	--	--	--	--	--	--	--	--	--	--
	6/25/2008	Shallow	1.54	0.7	**2.64**	0.000008	0.105	43.4	<0.03	0.4	--	--	--	--	--	--	--	--	--	--
	9/10/2008	Shallow	1.7	0.7	**3.026**	<0.000003	<0.003	1.3	<.05	1.7	--	--	--	--	--	--	--	--	--	--
	12/23/2008	Shallow	2.38	1.8	0.762	0.000006	0.051	8.5	<.05	0.6	--	--	--	--	--	--	--	--	--	--
	3/12/2009	Shallow	1.71	2.9	1.31	0.000004	0.029	**179**	<.05	<0.3	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Shallow	25	1.2	1.76	0.000015	0.015	5	0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/3/2009	Shallow	**25**	0.5	2.06	<0.000018	<0.011	12.2	<.02	0.5	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Shallow	**20**	7	1.9	--	0.058	**2030**	<.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	3/11/2010	Shallow	**18**	**7.1**	0.83	0.000055	0.103	**1650**	<.02	0.6	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Shallow	**14**	**8.8**	0.39	--	0.169	**677**	<.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Shallow	**5.5**	--	1.15	--	<0.031	6.9	<.02	3.6	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Shallow	1.48	**10.2**	0.46	--	<0.037	**1670**	<.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Shallow	1.5	**6.7**	0.29	--	0.184	**1280**	<.02	<0.2	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Shallow	0.839	3	0.69	--	<0.016	5.3	<.02	<0.2	--	--	--	--	--	--	--	--	--	--
	9/7/2011	Shallow	3.7	0.3	1.13	--	<0.116	2.1	<.02	<0.2	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Shallow	20.2	2	0.56	--	<0.019	5.9	<.02	0.7 J	--	--	--	--	--	--	--	--	--	--
	6/11/2012	Shallow	0.363	**7.6**	0.25	--	0.07	52.8	<.02	0.9	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Shallow	1.27	**5.9**	0.63	<0.000011	0.067	--	<.02	0.3 J	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-12	5/31/1989	Deep	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.2	<0.8	<1.1	<1.0	<1.0	--
	5/9/1990	Deep	--	--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<4	<2	--
	4/24/1991	Deep	--	--	--	0.8	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<2.0	--	--	--
	3/26/1998	Deep	<1250	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	**3.1**	--
	6/25/1998	Deep	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/24/1998	Deep	<250	<300	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/17/1998	Deep	<750	<300	--	<1	<1	<1	<1	<1	4.4	<2	<1	<1	<2	--
	3/23/1999	Deep	360	<50	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	6/23/1999	Deep	<210	<300	--	<1	<0.2	<1	<1	<0.2	4	<2	<1	<1	<2	--
	9/22/1999	Deep	**1900**	<300	--	**1.6**	<0.2	<1	5.3	<0.2	8.2	<2	<1	<0.98	<4.9	--
	12/14/1999	Deep	350	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	<0.40	**2.1**	<0.20	<1	<2	--
	3/23/2000	Deep	<250	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.19	**30.7**	--
	6/14/2000	Deep	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/26/2000	Deep	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/13/2000	Deep	**871**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2001	Deep	**1290**	<50	**551**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2001	Deep	**1760**	<50	**592**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/14/2001	Deep	**2300**	<50	**801**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2001	Deep	**1860**	<50	**673**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	--	--
	3/27/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	6/20/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	9/19/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/24/2003	Deep	421	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/17/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/16/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/15/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/9/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/7/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/8/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/30/2005	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2005	Deep	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/26/2005	Deep	<250	--	<500	--	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Deep	--	<22	--	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	12/12/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	6/19/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/25/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	12/7/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	3/28/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	6/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	--
	9/25/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	12/11/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/27/2008	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.39	<0.14	<0.0035	--	--	--
	6/25/2008	Deep	<250	<50	<500	<0.045	<0.0061	0.08	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-12	5/31/1989	Deep	<5	<5	**21**	<2	5	--	<0.5	15	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Deep	--	1.1	**7.5**	--	<20	--	--	<1	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Deep	<10	<10	<5	<20	<20	--	<0.2	<2	--	--	--	--	--	--	--	--	--	--
	3/26/1998	Deep	--	<10	<25	--	<3	--	<1	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	6/25/1998	Deep	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Deep	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	12/17/1998	Deep	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	3/23/1999	Deep	--	2.05	1.2	--	<1	--	<1	12.39	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/23/1999	Deep	--	<10	<25	--	<3	**550**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1999	Deep	--	0.52	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/14/1999	Deep	--	0.76	<25	--	<3	**620**	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/23/2000	Deep	--	2.66	<1	--	<1	**211**	<0.0125	<10	--	--	--	--	--	--	--	--	--	--
	6/14/2000	Deep	--	1.62	1.08	--	<1	**478**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/26/2000	Deep	--	1.92	2.15	--	<1	**569**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/13/2000	Deep	--	1.7	1.68	--	<1	**486**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2001	Deep	--	1.86	**2.45**	--	<1	**612**	<1	11.3	--	--	--	--	--	--	--	--	--	--
	6/20/2001	Deep	--	<1	1.63	--	<1	**493**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Deep	--	1.5	1.24	--	<1	**501**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2001	Deep	--	3.05	<1	--	<1	**398**	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	3/27/2002	Deep	--	1.9	1.25	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/20/2002	Deep	--	1.88	<1	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/19/2002	Deep	--	1.91	1.65	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2002	Deep	--	1.6	1.33	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2003	Deep	1.98	1.06	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/24/2003	Deep	1.54	1.33	1.58	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/17/2003	Deep	1.7	1.24	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/16/2003	Deep	2.38	**5.82**	1.23	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/15/2004	Deep	--	1.59	1.13	--	<1	--	**0.204**	<10	--	--	--	--	--	--	--	--	--	--
	6/9/2004	Deep	1.71	1.42	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/7/2004	Deep	--	2.06	1.41	--	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Deep	--	1.38	1.3	--	<1	**422**	<0.2	10.3	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Deep	--	1.75	1.35	--	<1	**463**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2005	Deep	--	7.7	1.8	--	0.26	**989**	<0.2	1.9	--	--	--	--	--	--	--	--	--	--
	9/26/2005	Deep	--	**7.85**	1.17	--	0.11	**387**	<0.08	3.59	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Deep	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2005	Deep	--	**5.6**	0.76	--	0.079	**285**	<0.08	1.92	--	--	--	--	--	--	--	--	--	--
	6/19/2006	Deep	--	0.9	0.72	--	0.067	**416**	<0.02	5.4	--	--	--	--	--	--	--	--	--	--
	9/25/2006	Deep	--	**5.81**	0.75	--	0.05	**348**	<0.02	4.7	--	--	--	--	--	--	--	--	--	--
	12/7/2006	Deep	--	2.27	0.81	--	0.091	**384**	0.02	3.5	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Deep	--	**5.32**	0.64	--	0.048	**422**	<0.02	4.3	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Deep	--	**7.66**	0.7	--	0.068	**427**	0.03	1.23	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Deep	--	1.6	1.1	--	0.074	**340**	<0.03	1.7	--	--	--	--	--	--	--	--	--	--
	12/11/2007	Deep	--	2	0.67	--	<0.063	**325**	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Deep	--	<2	0.67	--	0.105	**398**	<0.03	6.6	--	--	--	--	--	--	--	--	--	--
	6/25/2008	Deep	--	<4	0.61	--	0.108	**352.5**	<0.03	0.9	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-12	9/9/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	0.070	<0.061	<0.0035	--	--	--
	12/23/2008	Deep	<260	<50	<520	<0.045	<0.0095	0.14	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	--
	3/12/2009	Deep	<250	<50	<500	<0.045	<0.0095	0.07	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	--
	6/11/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	9/3/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	12/29/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.35	<0.10	<0.0084	--	--	--
	3/9/2010	Deep	<250	<50	<500	<0.038	<0.0095	0.07	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	6/9/2010	Deep	<250	<50	<500	<0.054	<0.0095	<0.1	<0.050	<0.066	0.060	<0.10	<0.0084	--	--	--
	9/2/2010	Deep	<260	<50	<520	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	--
	12/2/2010	Deep	<25	<50	<84	<0.054	<0.0095	0.070	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	--
	3/10/2011	Deep	<270	<50	<5300	<0.054	<0.0059	0.080	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/7/2011	Deep	<260	<50	<520	<0.054	<0.0059	0.070	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	9/8/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	12/7/2011	Deep	<260	<50	<520	<0.054	<0.0059	0.070	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/11/2012	Deep	<250	<250	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/5/2013	Deep	<250	--	<500	<0.062	<0.0059	0.070	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/4/2014	Deep	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/3/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	--
	6/9/2016	Deep	<260	--	<520	<0.50	<0.020	0.070	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	--
CTMW-13	5/9/1989	Shallow	--	--	--	**1.8**	<0.7	--	1.9	<0.5	10	<0.6	<2.0	--	--	--
	5/9/1989	Shallow	--	--	--	**1.7**	<0.7	--	1.7	<0.5	9.2	<0.6	<2.0	--	--	--
	5/9/1989	Shallow	--	--	--	<1.0	<0.7	--	<0.8	<0.5	<0.8	<0.6	<2.0	<1.0	<1.0	--
	5/9/1989	Shallow	--	--	--	<1.0	<0.7	--	<0.8	<0.5	<0.8	<0.6	<2.0	<1.0	<1.0	--
	5/31/1989	Shallow	--	--	--	**1.9**	<1.3	1.2	1.0	**5.8**	9.0	**6.0**	<1.1	<1.0	**11**	--
	5/9/1990	Shallow	--	--	--	<2.00	<2.00	**21.0**	<5.00	<2.00	5.53	<2.00	<9.14	<4	**3**	--
	4/24/1991	Shallow	--	--	--	1.5	<1.0	4.3	0.8	<1.0	3.5	1.2	**2.3**	--	--	--
	6/26/1998	Shallow	<1200	--	--	**2.0**	<1	1.2	1.8	<1	8.4	<2	<1	<1	<2	--
	9/23/1998	Shallow	**760**	<60	--	**2.8**	<1	1.6	1.9	<1	7.6	<2	<1	<1	<2	--
	12/17/1998	Shallow	<750	<300	--	**2.3**	<1	<1	1.8	<1	9.1	<2	<1	<1	<2	--
	3/23/1999	Shallow	**1800**	<50	--	1.44	<1	<1	1.09	<1	4.27	<1	<1	<250	<1000	--
	6/24/1999	Shallow	**520**	<300	--	**13**	<0.2	1.5	7.4	<0.2	45	<2	<1	<1	<2	--
	9/23/1999	Shallow	**8900**	--	--	**15**	<0.2	<1	13	<0.2	62	<2	<1	<0.98	12	--
	12/13/1999	Shallow	**2600**	<300	--	<0.20	<0.04	<0.20	5.6	<0.04	20	<0.40	<0.20	<1	<2	--
	3/23/2000	Shallow	**2230**	59	<750	1.54	<1.00	<1.00	1.06	<1.00	5.66	<1.00	<1.00	<5.07	<25.3	--
	6/14/2000	Shallow	**1820**	<50	**609**	**1.99**	<1.00	<1.00	1.79	<1.00	7.83	<1.00	<1.00	--	--	--
	9/22/2000	Shallow	--	--	--	**2.56**	<1.00	2.23	2.29	<1.00	11.4	<1.00	<1.00	--	--	--
	12/13/2000	Shallow	**4110**	52	**656**	**1.74**	<1.00	<1.00	1.43	<1.00	3.73	<1.00	<1.00	--	--	--
	3/21/2001	Shallow	**4870**	92	**3070**	**2.03**	<1.00	<1.00	1.57	<1.00	7.1	<1.00	<1.00	--	--	--
	6/21/2001	Shallow	**3430**	100	**1480**	**2.1**	<1.00	<1.00	1.74	<1.00	7.97	<1.00	<1.00	--	--	--
	9/14/2001	Shallow	**5910**	72	**2710**	**1.95**	<1.00	<1.00	1.63	<1.00	7.54	<1.00	<1.00	--	--	--
	12/20/2001	Shallow	**3910**	58	**1260**	**1.68**	<1.00	<1.00	1.59	<1.00	5.91	<1.00	<1.00	--	--	--
	3/25/2002	Shallow	**830**	79	<500	**1.99**	<1.00	<1.00	2.04	<1.00	8.05	<1.00	<1.00	--	--	1.38
	6/19/2002	Shallow	406	87	<500	**1.85**	<1.00	<1.00	1.75	<1.00	8	<1.00	<1.00	--	--	1.15
	9/18/2002	Shallow	<250	250	<500	**2.82**	<1.00	2.42	2.88	1.34	13	<1.00	<1.00	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-12	9/9/2008	Deep	--	<0.6	0.658	--	0.057	**398**	<0.05	4.2	--	--	--	--	--	--	--	--	--	--
	12/23/2008	Deep	--	0.8	0.585	--	0.054	**431**	<0.05	2.3	--	--	--	--	--	--	--	--	--	--
	3/12/2009	Deep	--	2	0.547	--	0.088	**392**	<0.05	1.9	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Deep	--	<0.4	0.45	--	0.076	**451**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/3/2009	Deep	--	1	0.61	--	0.06	**432**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Deep	--	<1	0.51	--	0.066	**514**	<0.02	1	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Deep	--	<1	0.32	--	0.049	**542**	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Deep	--	<0.5	0.37	--	0.16	**531**	0.02	0.7	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Deep	--	0.6	0.51	--	<0.044	**626**	<0.02	2.1	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Deep	--	<0.5	0.41	--	<0.041	**623**	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	3/10/2011	Deep	--	0.5	0.33	--	<0.042	**663**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	6/7/2011	Deep	--	0.5	0.56	--	<0.042	**789**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Deep	--	0.5	1.24	--	<0.116	**982**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Deep	--	2.9	0.37 J	--	0.071	**1050**	<0.02	0	--	--	--	--	--	--	--	--	--	--
	6/11/2012	Deep	--	0.5	0.28	--	0.048	**1160**	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Deep	--	0.5	0.33	--	<0.028	--	0.02	0.6	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Deep	--	0.34	0.3	--	0.03	--	<0.02	0.54	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Deep	--	0.34	0.49	--	0.033	--	<0.02	0.34 J	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Deep	--	0.6	0.32	--	<0.05	--	<0.02	1.03	--	--	--	--	--	--	--	--	--	--
CTMW-13	5/9/1989	Shallow	**25**	**28**	**482**	9	**1760**	--	1.6	**2940**	--	--	--	--	--	--	--	--	--	--
	5/9/1989	Shallow	**25**	**26**	**565**	4	**2060**	--	1.5	**3590**	--	--	--	--	--	--	--	--	--	--
	5/9/1989	Shallow	<5	<5	<10	<2	2	--	<0.5	54	--	--	--	--	--	--	--	--	--	--
	5/9/1989	Shallow	<5	<5	<10	<2	2	--	<0.5	49	--	--	--	--	--	--	--	--	--	--
	5/31/1989	Shallow	**20**	**16**	**15**	3	**36**	--	<0.5	**262**	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	**31**	**30**	--	**22**	--	--	74	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Shallow	**18**	**19**	**14**	<20	**27**	--	<0.2	**800**	--	--	--	--	--	--	--	--	--	--
	6/26/1998	Shallow	--	**15**	<25	--	**34**	--	<1	**1200**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1998	Shallow	--	**21**	<25	--	**34**	--	<0.2	**670**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--
	12/17/1998	Shallow	--	**26**	<25	--	**43**	--	<0.2	**6700**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/23/1999	Shallow	--	**20.3**	**6.47**	--	**32**	--	<1	**2440**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/24/1999	Shallow	--	**17**	<25	--	**11**	**530**	<0.2	**760**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1999	Shallow	--	**20**	<25	--	**27**	--	<0.2	**580**	<0.05	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	--	--	--
	12/13/1999	Shallow	--	**11**	<25	--	**14**	**560**	<0.2	**480**	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	--	--	--
	3/23/2000	Shallow	--	**17.4**	**3.95**	--	**15.5**	**554**	<0.0125	**300**	--	--	--	--	--	--	--	--	--	--
	6/14/2000	Shallow	--	3.37	<4.28	--	**8.53**	**1150**	<1	<61.8	--	--	--	--	--	--	--	--	--	--
	9/22/2000	Shallow	--	**12.6**	**8.02**	--	**49.7**	**361**	<1	**694**	--	--	--	--	--	--	--	--	--	--
	12/13/2000	Shallow	--	**21.4**	**4.24**	--	**11.1**	**827**	<1	**380**	--	--	--	--	--	--	--	--	--	--
	3/21/2001	Shallow	--	**5.62**	**7.83**	--	**8.37**	**969**	<1	50.9	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Shallow	--	**9.52**	**9.26**	--	**11.2**	**980**	<1	**90.5**	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Shallow	--	**18.3**	**4.1**	--	**9.21**	**838**	<1	**184**	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Shallow	--	**14.6**	**3.48**	--	**9.05**	**1030**	<1	**355**	--	--	--	--	--	--	--	--	--	--
	3/25/2002	Shallow	--	**18.8**	**6.01**	--	**15.1**	--	<1	**361**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/19/2002	Shallow	--	**19.8**	**5.49**	--	**15**	--	<1	**273**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Shallow	--	**23.5**	**2.46**	--	4.57	--	<1	**183**	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-14	5/10/1989	Shallow	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	--	<0.8	<1.1	<2.7	**16**	--
	5/10/1989	Shallow	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.2	<0.8	<1.1	<1.0	**3.5**	--
	5/12/1989	Shallow	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.4	<0.8	<1.1	<1.0	**15**	--
	5/12/1989	Shallow	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.2	<0.8	<1.1	<1.0	<1.0	--
	6/1/1989	Shallow	--	--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.6	<0.8	<1.1	<1.0	**3.6**	--
	3/24/1998	Shallow	<1250	--	--	<1	<1	<1	1.1	<1	<2	<2	<1	<1	<2	--
	6/24/1998	Shallow	--	--	--	1.4	<1	<1	<1	<1	<2	<2	<1	--	--	--
	6/25/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	<1	<2	--
	6/26/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	--	--	--
	9/24/1998	Shallow	--	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	12/15/1998	Shallow	<0.25	<300	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	3/22/1999	Shallow	**710**	<50	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	3/24/1999	Shallow	<250	<50	--	--	--	--	--	--	--	--	--	<5	<20	--
	6/24/1999	Shallow	330	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	--	--	--
	6/28/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	<1	<2	--
	9/22/1999	Shallow	--	<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1.0	<5.2	--
	9/24/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/1999	Shallow	300	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	2.2	<0.40	<0.20	<1.2	<5.8	--
	3/22/2000	Shallow	424	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.89	<24.5	--
	6/22/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/23/2000	Shallow	389	--	<500	--	--	--	--	--	--	--	--	--	--	--
	6/26/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow	--	--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/25/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/15/2000	Shallow	**976**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/20/2001	Shallow	426	<50	<629	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2001	Shallow	--	<50	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/27/2001	Shallow	**624**	--	<500	--	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	**2070**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/14/2001	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Shallow	--	<50	--	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/21/2001	Shallow	**706**	--	<500	--	--	--	--	--	--	--	--	--	--	--
	3/22/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	6/21/2002	Shallow	--	<50	--	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/19/2002	Shallow	--	<50	--	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/20/2002	Shallow	<446	--	<893	--	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/20/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/16/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/15/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/10/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/8/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/29/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/12/2005	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	0.21	<0.11	<0.14	<0.0081	--	--	--
	6/19/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	0.18	<0.11	<0.14	<0.0081	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-14	5/10/1989	Shallow	<5	<5	<10	<2	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/10/1989	Shallow	<5	<5	<10	<2	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/12/1989	Shallow	<5	**92**	**1180**	<2	**640**	--	0.6	**1580**	--	--	--	--	--	--	--	--	--	--
	5/12/1989	Shallow	**14**	**92**	**940**	<2	**500**	--	0.8	**1250**	--	--	--	--	--	--	--	--	--	--
	6/1/1989	Shallow	--	**8**	**19**	--	**10**	--	<0.5	28	--	--	--	--	--	--	--	--	--	--
	3/24/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	6/24/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/25/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/1998	Shallow	--	--	--	--	--	--	--	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Shallow	--	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/15/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/22/1999	Shallow	--	--	--	--	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	3/24/1999	Shallow	--	**10.2**	**5.44**	--	1.48	--	<1	<16.4	--	--	--	--	--	--	--	--	--	--
	6/24/1999	Shallow	--	**16**	<25	--	<3	**1200**	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	6/28/1999	Shallow	--	--	--	--	--	--	--	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/24/1999	Shallow	--	**8.1**	<25	--	<3	--	<0.2	55	--	--	--	--	--	--	--	--	--	--
	12/20/1999	Shallow	--	**5.7**	<25	--	**17**	**1800**	<0.2	<20	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	--	--	--
	3/22/2000	Shallow	--	3.74	1.03	--	<1	**1080**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/22/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2000	Shallow	--	3.03	1.48	--	<1	**1820**	<1	19.7	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/25/2000	Shallow	--	1.98	**2.65**	--	1.56	**2750**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/15/2000	Shallow	--	3.23	**8.81**	--	1.32	**1890**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/20/2001	Shallow	--	**8.03**	**9.5**	--	1.27	**1130**	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/27/2001	Shallow	--	**13.3**	2.26	--	<1	**2160**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Shallow	--	**5.05**	**13.7**	--	5.23	**3130**	<1	27	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/21/2001	Shallow	--	**8.15**	**6.12**	--	1.72	**2170**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/22/2002	Shallow	--	**18.7**	1.9	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/21/2002	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/2002	Shallow	--	3.89	**3.1**	--	1.05	--	<1	12.2	--	--	--	--	--	--	--	--	--	--
	9/20/2002	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Shallow	--	**11.2**	**7.44**	--	**13.6**	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/20/2003	Shallow	**5.5**	**15.5**	**32.4**	1.98	**18.4**	--	<1	24.9	--	--	--	--	--	--	--	--	--	--
	12/16/2003	Shallow	1.48	1.2	**3.52**	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/15/2004	Shallow	1.5	4.97	**13.8**	<1	2.92	--	<0.2	15.4	--	--	--	--	--	--	--	--	--	--
	6/10/2004	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Shallow	--	1.07	**7.11**	--	<1	16.1	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	3/29/2005	Shallow	--	1.82	**3.01**	--	<1	74.7	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/12/2005	Shallow	--	1.7	**2.69**	--	0.385	2.54	<0.08	4.87	--	--	--	--	--	--	--	--	--	--
	6/19/2006	Shallow	--	3.8	**6.64**	--	2.39	**265**	0.02	6.5	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-14	12/4/2006	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	0.13	<0.11	<0.14	<0.0023	--	--	--
	3/26/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	12/10/2007	Shallow	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	0.13 J	<0.11	<0.14	<0.0035	--	--	--
	3/25/2008	Shallow	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	0.17 J	<0.27	<0.14	<0.0035	--	--	--
	12/15/2008	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	0.14 J	<1.2	<0.061	<0.0035	--	--	--
	3/10/2009	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	0.16 J	<0.048	<0.061	<0.0084	--	--	--
	12/29/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.14 J	<0.23	<0.10	<0.0084	--	--	--
	3/9/2010	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.11 J	<0.052	<0.10	<0.0084	--	--	--
	6/8/2010	Shallow	<270	<50	<5300	<0.054	<0.0095	<0.067	<0.050	0.14 J	0.060	<0.10	<0.0084	--	--	--
	12/1/2010	Shallow	<16	<50	<32	<0.054	<0.0095	<0.067	<0.050	0.10 J	<0.74	<0.10	<0.0084	--	--	--
	3/8/2011	Shallow	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/7/2011	Shallow	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	0.11 J	<0.052	<0.10	<0.0045	--	--	--
	12/6/2011	Shallow	<270	<50	<540	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/5/2012	Shallow	<260	<250	<520	<0.062	<0.0059	<0.067	<0.050	0.14 J	<0.054	<0.10	<0.0046	--	--	--
	6/4/2013	Shallow	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	0.12 J	<0.054	<0.10	<0.0046	--	--	--
	6/3/2014	Shallow	<260	--	<510	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/2/2015	Shallow	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	--
	6/9/2016	Shallow	<260	--	<520	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	--
CTMW-15	5/15/1989	Shallow		--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.5	<0.8	<1.1	<1.0	<1.0	--
	5/15/1989	Shallow		--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.6	<0.8	<1.1	<3.3	<3.3	--
	5/16/1989	Shallow		--	--	<1.0	<0.7	--	<0.8	<0.5	<0.8	<0.6	<2.0	<1.0	<1.0	--
	5/16/1989	Shallow		--	--	<1.0	<0.7	--	<0.8	<0.5	<0.8	<0.6	<2.0	<1.0	<1.0	--
	6/1/1989	Shallow		--	--	<0.4	<1.3	<1.2	<1.0	<0.6	0.1	<0.8	<1.1	<1.0	<1.0	--
	5/9/1990	Shallow		--	--	<2.00	<2.00	<2.00	<5.00	<2.00	<5.00	<2.00	<2.00	<5	3	--
	4/24/1991	Shallow		--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--
	3/24/1998	Shallow	<1250	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	**3.6**	--
	6/24/1998	Shallow	<1200	--	--	<1	<1	<1	<1	<1	<2	<2	<1	<1	<2	--
	9/24/1998	Shallow	<250	<300	--	<1	<1	<1	2.5	<1	3.7	<2	<1	<1	<2	--
	12/16/1998	Shallow	<250	<300	--	<1	<1	<1	<1	<1	3.2	<2	<1	<1	<2	--
	3/22/1999	Shallow	<250	<300	--	<1	<1	<1	<1	<1	<1	<1	<1	<5	<20	--
	6/22/1999	Shallow		--	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<1	<2	--
	6/25/1999	Shallow	<200	<300	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/1999	Shallow		<300	--	<1	<0.2	<1	<1	<0.2	<2	<2	<1	<0.95	**7.2**	--
	9/22/1999	Shallow	**700**	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/1999	Shallow		--	--	--	--	--	--	--	--	--	--	--	--	--
	12/13/1999	Shallow	85	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	<0.40	<0.40	<0.20	<1	<2	--
	3/22/2000	Shallow	<483	<50	<1450	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<25.0	--
	6/15/2000	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/27/2000	Shallow		--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2000	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/23/2001	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/19/2001	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/14/2001	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2001	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	Date	Shallow/ Deep	Arsenic D	Arsenic T	Copper	Lead D	Lead T	Manganese	Mercury	Zinc	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	PCBs
	Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Screening Level		5	5	2.4	8.1	8.1	100	0.025	81	--	--	--	--	--	--	--	--	--	7E-06
CTMW-14	12/4/2006	Shallow	--	3.31	**3.15**	--	0.201	10.1	<0.02	3	--	--	--	--	--	--	--	--	--	--
	3/26/2007	Shallow	--	2.92	**5.56**	--	0.127	2.74	<0.02	2.5	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Shallow	--	2	**2.99**	--	<0.154	5.47	<0.03	3.8	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Shallow	--	<1.9	**7.7**	--	1.5	0.848	<0.03	5.5	--	--	--	--	--	--	--	--	--	--
	12/15/2008	Shallow	--	1.1	**4.626**	--	0.137	2.1	<0.05	1.2	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	1.7	**5.346**	--	0.62	5.1	<0.05	2.5	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Shallow	--	1.8	**5.11**	--	0.202	0.512	<0.02	1.5	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Shallow	--	2.2	**4.14**	--	0.155	0.623	<0.02	1.7	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	2.9	**5.13**	--	<0.139	0.658	0.02 J	1.4	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	--	2.4	**5.6**	--	0.127	0.6	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Shallow	--	2.4	**3.13**	--	0.091	0.391	<0.02	1.1	--	--	--	--	--	--	--	--	--	--
	6/7/2011	Shallow	--	2.6	**3.54**	--	0.122	7.3	<0.02	1.6	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Shallow	--	1.6	**3.99**	--	0.136	1.2	<0.02	2.3	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Shallow	--	2	**4.08**	--	0.239	11.1	<0.02	2	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	4.3	**2.97**	--	0.336	--	<0.02	2.8	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	**11.91**	**4.32**	--	0.19	--	<0.02	4.94	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	4.61	**10.59**	--	0.095	--	<0.2	4.04	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Shallow	--	2.6	**8.95**	--	0.912	--	<0.2	6.22	--	--	--	--	--	--	--	--	--	--
CTMW-15	5/15/1989	Shallow	<5	<5	<10	<2	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/15/1989	Shallow	<5	<5	<10	<2	<2	--	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	5/16/1989	Shallow	<5	**24**	**400**	<2	44	--	<0.5	400	--	--	--	--	--	--	--	--	--	--
	5/16/1989	Shallow	<5	**37**	**530**	<2	68	--	<0.5	550	--	--	--	--	--	--	--	--	--	--
	6/1/1989	Shallow	<5	<5	**24**	<2	6	--	<0.5	29	--	--	--	--	--	--	--	--	--	--
	5/9/1990	Shallow	--	2.2	**11**	--	<20	--	--	<21	--	--	--	--	--	--	--	--	--	--
	4/24/1991	Shallow	<10	<10	**9.1**	<20	<20	--	<0.2	32	--	--	--	--	--	--	--	--	--	--
	3/24/1998	Shallow	--	<10	<25	--	17.6	--	<1	38.5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/24/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Shallow	--	<10	<25	--	3.3	--	<0.2	49	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/16/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	3/22/1999	Shallow	--	2.25	1.32	--	<1	--	<1	21.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/22/1999	Shallow	--	<10	<25	--	<3	**750**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/25/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/22/1999	Shallow	--	--	--	--	--	--	--	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1999	Shallow	--	3.7	<25	--	<3	--	<0.2	<20	--	--	--	--	--	--	--	--	--	--
	12/13/1999	Shallow	--	1.9	<25	--	<3	**780**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/22/2000	Shallow	--	2.77	1.03	--	<1	**217**	<0.2	14.3	--	--	--	--	--	--	--	--	--	--
	6/15/2000	Shallow	--	1.92	1.56	--	<1	**922**	<1	18.5	--	--	--	--	--	--	--	--	--	--
	9/27/2000	Shallow	--	2.73	1.32	--	<1	**682**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2000	Shallow	--	1.38	<1	--	<1	**529**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/23/2001	Shallow	--	1.15	1.36	--	<1	**510**	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/19/2001	Shallow	--	1.96	1.08	--	<1	**523**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Shallow	--	**8.08**	<1	--	1.09	**609**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2001	Shallow	--	1.32	1.8	--	<1	**193**	<1	11.9	--	--	--	--	--	--	--	--	--	--
	3/21/2002	Shallow	--	1.91	1.06	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-15	6/21/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	9/17/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/17/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/26/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/16/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/15/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/18/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/10/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/30/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2005	Shallow	<20	<13	<29	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/29/2005	Shallow	<250	<22	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	12/14/2005	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	3/23/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.12	<0.14	<0.0081	--	--	--
	6/21/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/26/2006	Shallow	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	12/5/2006	Shallow	<260	<50	<520	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	3/28/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	6/28/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	--
	9/25/2007	Shallow	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	12/10/2007	Shallow	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/25/2008	Shallow	<260	<50	<520	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.23	<0.14	<0.0035	--	--	--
	6/23/2008	Shallow	<250	<50	<500	<0.045	<0.0061	0.10	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	--
	9/9/2008	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	0.080	<0.061	<0.0035	--	--	--
	12/16/2008	Shallow	<260	<50	<520	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.4	<0.061	<0.0035	--	--	--
	3/10/2009	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	--
	6/11/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	9/2/2009	Shallow	<250	<50	<500	<0.038	<0.0095	0.11	<0.050	<0.066	0.10	<0.10	<0.0084	--	--	--
	12/30/2009	Shallow	<260	<50	<520	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.23	<0.10	<0.0084	--	--	--
	3/10/2010	Shallow	<270	<50	<5300	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	6/8/2010	Shallow	<260	<50	<520	<0.054	<0.0095	<0.08	<0.050	<0.066	0.12	<0.10	<0.0084	--	--	31
	9/1/2010	Shallow	160	<50	**1100**	<0.054	<0.0095	0.10	<0.050	<0.099	0.17	<0.10	<0.0084	--	--	33
	12/1/2010	Shallow	<14	<50	<26	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	13
	3/8/2011	Shallow	<270	<50	<530	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	21
	6/8/2011	Shallow	<270	<50	<530	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	31
	9/9/2011	Shallow	<270	<50	<530	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	12/6/2011	Shallow	<270	<50	<530	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/8/2012	Shallow	<260	<250	<520	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/5/2013	Shallow	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/3/2014	Shallow	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	1
	6/2/2015	Shallow	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	0.74 J
	6/8/2016	Shallow	<260	--	<520	<0.50	<0.020	<0.50	<0.50	<0.50	0.070	<0.50	<0.020	--	--	3.5

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-15	6/21/2002	Shallow	--	**7.72**	<1	--	<1	--	<1	12	<0.625	<0.625	<0.625	<0.625	<0.625	<0.625	<0.625	--	--	--
	9/17/2002	Shallow	--	**11.6**	**9.43**	--	3.29	--	<1	24.1	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Shallow	--	0.815	**2.93**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2003	Shallow	0.839	1.08	**6.5**	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/26/2003	Shallow	3.7	**10.2**	**9.11**	<1	5.61	--	<1	57.9	--	--	--	--	--	--	--	--	--	--
	9/16/2003	Shallow	**20.2**	**14.5**	**4.87**	<1	1.73	--	<1	12.9	--	--	--	--	--	--	--	--	--	--
	12/15/2003	Shallow	0.363	0.392	**2.76**	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/18/2004	Shallow	1.27	1.07	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/10/2004	Shallow	1.79	1.81	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/9/2004	Shallow	--	10	**3.54**	--	2.05	--	<0.2	18.4	--	--	--	--	--	--	--	--	--	--
	12/9/2004	Shallow	--	0.253	2.38	--	<1	10	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Shallow	--	0.259711	2.19	--	<1	21.2	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2005	Shallow	--	1.6	1.1	--	0.03	**204**	<0.2	2.3	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Shallow	--	2.34	1.07	--	0.11	**334**	<0.08	3.38	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Shallow	--	0.4	**2.56**	--	0.019	2.44	<0.08	2.21	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Shallow	--	0.46	**3.21**	--	0.02	11.8	<0.08	9.38	--	--	--	--	--	--	--	--	--	--
	6/21/2006	Shallow	--	1.8	2.2	--	0.046	**130**	<0.02	5	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Shallow	--	**10.7**	1.01	--	0.05	**305**	<0.02	8.1	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Shallow	--	1.05	**4.65**	--	0.086	20.6	<0.02	3.3	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Shallow	--	<2.25	1.33	--	0.03	**105**	<0.02	4.4	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Shallow	--	**12**	1.1	--	0.093	**337**	<0.03	5.31	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Shallow	--	**7.8**	0.68	--	<0.088	**472**	<0.03	4.7	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Shallow	--	2	**3.87**	--	<0.164	15.3	<0.03	6.6	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Shallow	--	<1.2	1.2	--	0.05	95.4	<0.03	2.6	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Shallow	--	**6**	0.8	--	0.093	**248.5**	<0.03	2.8	--	--	--	--	--	--	--	--	--	--
	9/9/2008	Shallow	--	<2.2	0.793	--	0.062	**457**	<0.05	3.3	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Shallow	--	3.5	1.152	--	0.129	**250**	<0.05	2.3	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	2.1	1.401	--	0.057	**206**	<0.05	4.8	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Shallow	--	1.5	0.64	--	0.075	**268**	<0.02	2.5	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Shallow	--	2	0.47	--	<0.042	**443**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Shallow	3.1	<3.2	1.24	0.081	0.08	**491**	<0.02	1.2	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Shallow	--	2.3	0.73	--	0.105	**417**	<0.02	0.6	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	1.9	0.71	--	<0.083	**358**	0.02 J	1.5	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Shallow	3.6	1.7	0.4	0.044	0.036	**473**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	3	2.5	0.57	0.167	0.109	**340**	<0.02	0.6	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Shallow	2.9	1.3	0.33	0.092	<0.057	**378**	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Shallow	--	1.3	0.71	--	<0.071	**424**	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	9/9/2011	Shallow	--	1.1	0.51	--	<0.116	**543**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Shallow	--	0.9	**3.61**	--	0.072	13.9	<0.02	1.3	--	--	--	--	--	--	--	--	--	--
	6/8/2012	Shallow	--	1.4	**2.36**	--	0.131	60.8	<0.02	1.7	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Shallow	--	1.1	**3.26**	--	0.056	--	<0.02	1.4	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	1.54	**2.94**	--	0.048	--	<0.02	1.45	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	1.82	**2.62**	--	0.15	--	<0.2	2.02	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Shallow	--	1.7	2.03	--	<0.063	--	<0.2	1.85	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-16	4/25/1991	Shallow		--	--	**4.0**	<1.0	<1.0	2.8	<1.0	11	<1.0	<2.0	--	--	--
	3/23/1998	Shallow	<1250	--	--	**2.9**	<1	<1	5.5	<1	11	<2	<1	<1	<2	--
	6/26/1998	Shallow	<1200	--	--	**3.1**	<1	<1	6.2	<1	11	<2	<1	<1	<2	--
	9/24/1998	Shallow	**900**	<300	--	**3.2**	<1	<1	5.2	<1	18	<2	<1	<1	<2	--
	12/17/1998	Shallow	<750	<300	--	**2.8**	<1	<1	4.3	<1	12	<2	<1	<1	<2	--
	3/23/1999	Shallow	**2200**	83	--	--	--	--	--	--	--	--	--	<250	<1000	--
	6/24/1999	Shallow	**580**	<300	--	**19**	<0.2	<1	25	<0.2	74	<2	<1	<1	<2	--
	9/22/1999	Shallow	**32000**	<300	--	**15**	<0.2	<1	23	<0.2	52	<2	<1	<0.98	<4.9	--
	12/14/1999	Shallow	**8400**	<300	--	**4.7**	<0.04	<0.20	16	<0.04	34	<0.40	<0.20	<1	<2	--
	3/23/2000	Shallow	**2300**	240	<1520	**2.58**	<1.00	<1.00	4	<1.00	9.71	<1.00	<1.00	<108	<539	--
	6/14/2000	Shallow	**2030**	190	**827**	**2.17**	<1.00	<1.00	4.57	<1.00	8.06	<1.00	<1.00	--	--	--
	9/22/2000	Shallow		--	--	**2.34**	<1.00	<1.00	3.79	<1.00	8.98	<1.00	<1.00	--	--	--
	12/13/2000	Shallow	**15300**	200	**2240**	**2.69**	<1.00	<1.00	3.47	<1.00	8.85	<1.00	<1.00	--	--	--
	3/21/2001	Shallow	**23600**	260	**6710**	**2.28**	<1.00	<1.00	3.89	<1.00	7.58	<1.00	<1.00	--	--	--
	6/20/2001	Shallow	**26400**	270	**7920**	**2**	<1.00	<1.00	3.85	<1.00	7.24	<1.00	<1.00	--	--	--
	9/13/2001	Shallow	**30600**	230	**5380**	**2.03**	<1.00	<1.00	3.14	<1.00	6.79	<1.00	<1.00	--	--	--
	12/19/2001	Shallow	**3420**	220	**1410**	**1.78**	<1.00	<1.00	2.9	<1.00	6.54	<1.00	<1.00	<10.0	--	--
	3/27/2002	Shallow	<301	160	<602	1.38	<1.00	<1.00	2.92	<1.00	4.7	<1.00	<1.00	--	--	4.34
	6/20/2002	Shallow	**545**	260	<500	**2.4**	<1.00	<1.00	4.29	<1.00	9.09	<1.00	<1.00	--	--	4.6
	9/19/2002	Shallow	<250	310	<500	**2.19**	<1.00	<1.00	3.86	<1.00	8.35	<1.00	<1.00	--	--	--
CTMW-17	4/24/1991	Shallow		--	--	**2.1**	<1.0	5.1	0.9	**17**	6.2	**7.3**	<2.0	--	--	--
	3/23/1998	Shallow	<1250	--	--	<1	<1	<1	3.6	<1	7.2	<2	<1	<1	**85**	--
	6/23/1998	Shallow	<1200	--	--	**3.2**	<1	4.9	1.2	<1	7.5	<2	**1.2**	<1	<2	--
	9/23/1998	Shallow	**8100**	310	--	**3.0**	<1	8.9	1.2	<1	7.8	<2	**2.0**	<1	**16**	--
	12/17/1998	Shallow	<750	330	--	**1.6**	<1	2.5	<1	<1	5.1	<2	**1.8**	<1	<2	--
	3/23/1999	Shallow	**950**	<50	--	<1	<1	<1	<1	<1	2.58	<1	<1	<5	<20	--
	6/24/1999	Shallow	**750**	<300	--	**14**	<0.2	6.7	5.1	1.6	43	<2	<1	<1	<2	--
	9/23/1999	Shallow	**1900**	<300	--	**25**	<0.2	**44**	7.5	**5.1**	61	**4.7**	**23**	<1.0	**12**	--
	9/24/1999	Shallow		--	--	--	--	--	--	--	--	--	--	--	--	--
	12/9/1999	Shallow	**1600**	<300	--	<0.20	<0.04	<0.20	1.3	<0.04	14	<0.40	<0.20	<1	<2	--
	3/23/2000	Shallow	**833**	<50	<750	<1.00	<1.00	<1.00	<1.00	<1.00	2.03	<1.00	<1.00	<4.97	<24.8	--
	6/15/2000	Shallow	**3730**	110	1.4	**2.98**	<1.00	<1.00	1.16	<1.00	7.78	<1.00	<1.00	--	--	--
	9/22/2000	Shallow		--	--	**3.31**	<1.00	4.74	1.11	<1.00	7.71	<1.00	<1.00	--	--	--
	12/19/2000	Shallow	**6610**	130	1.09	**2.44**	<1.00	<1.00	<1.00	<1.00	6.18	<1.00	<1.00	--	--	--
	3/22/2001	Shallow	**2040**	<50	1.48	1.04	<1.00	<1.00	<1.00	<1.00	2.68	**1.25**	<1.00	--	--	--
	6/21/2001	Shallow	**2820**	67	1.41	**1.76**	<1.00	1.71	<1.00	<1.00	3.62	<1.00	<1.00	--	--	--
	9/11/2001	Shallow		110	--	**3.06**	<1.00	3.55	1.01	<1.00	7.26	<1.00	<1.00	--	--	--
	12/20/2001	Shallow	367	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/26/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	6/19/2002	Shallow	346	55	<500	1.09	<1.00	1.21	1.11	<1.00	6.46	<1.00	<1.00	--	--	<1.20
	9/19/2002	Shallow	<250	60	<500	1.28	<1.00	1.7	1.19	<1.00	6.13	<1.00	**1.82**	--	--	--
	12/18/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/24/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/24/2003	Shallow	**600**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/18/2003	Shallow	385	<50	<500	<0.500	<1.00	1	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-16	4/25/1991	Shallow	<10	<10	**16**	**24**	**27**	--	<0.2	5.2	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Shallow	--	**10.2**	<25	--	<3	--	<1	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	6/26/1998	Shallow	--	<10	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/24/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	12/17/1998	Shallow	--	<10	<25	--	<3	--	**0.26**	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/23/1999	Shallow	--	**17**	2.16	--	1.67	--	<1	<10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/24/1999	Shallow	--	<10	<25	--	3	15	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/22/1999	Shallow	--	**6.1**	<25	--	<3	--	**0.28**	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	12/14/1999	Shallow	--	1.9	<25	--	<3	15	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/23/2000	Shallow	--	**13.3**	1.74	--	<1	20	**0.0325**	<10	--	--	--	--	--	--	--	--	--	--
	6/14/2000	Shallow	--	**16.2**	<3.7	--	2.04	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/22/2000	Shallow	--	**19.1**	**2.99**	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/13/2000	Shallow	--	**16.9**	**2.82**	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2001	Shallow	--	**19.1**	1.93	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2001	Shallow	--	**16.8**	**3.04**	--	1.05	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	--	**9.55**	1.45	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2001	Shallow	--	**15.8**	**3.46**	--	<1	10	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	3/27/2002	Shallow	--	**13.8**	1.63	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/20/2002	Shallow	--	**19.9**	**8.48**	--	1.16	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/19/2002	Shallow	--	**19.8**	**5.82**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
CTMW-17	4/24/1991	Shallow	**21**	**30**	<5	<20	**31**	--	**0.3**	28	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Shallow	--	**57.2**	<25	--	**127**	--	<1	**70200**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	6/23/1998	Shallow	--	**140**	<25	--	**240**	--	<1	**105000**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1998	Shallow	--	**420**	**30**	--	**2000**	--	<0.2	**204000**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/17/1998	Shallow	--	**130**	**58**	--	**340**	--	**0.21**	**25900**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--
	3/23/1999	Shallow	--	**23.6**	**5.61**	--	**30.9**	--	<1	**3050**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/24/1999	Shallow	--	**80**	<25	--	**130**	**1200**	<0.2	**7800**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1999	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/24/1999	Shallow	--	**100**	<25	--	**52**	--	<0.2	**4000**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/9/1999	Shallow	--	**38**	<25	--	**42**	15	<0.2	**1800**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/23/2000	Shallow	--	**23.8**	**6.62**	--	**27.1**	**485**	<0.0125	**1360**	--	--	--	--	--	--	--	--	--	--
	6/15/2000	Shallow	--	**49.4**	**5.95**	--	**33.4**	**514**	<1	**1790**	--	--	--	--	--	--	--	--	--	--
	9/22/2000	Shallow	--	**71.6**	**9.13**	--	**73.5**	**365**	<1	**1920**	--	--	--	--	--	--	--	--	--	--
	12/19/2000	Shallow	--	**23.9**	**4.02**	--	**22.3**	**794**	<1	**1030**	--	--	--	--	--	--	--	--	--	--
	3/22/2001	Shallow	--	**18.9**	**5.63**	--	**22.8**	**688**	<1	**841**	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Shallow	--	**32**	**11.6**	--	**87.8**	**716**	<1	**3350**	--	--	--	--	--	--	--	--	--	--
	9/11/2001	Shallow	--	**19.9**	**8.06**	--	**43.7**	**472**	<1	**974**	--	--	--	--	--	--	--	--	--	--
	12/20/2001	Shallow	--	3.97	**12.9**	--	3.01	**286**	<1	**189**	--	--	--	--	--	--	--	--	--	--
	3/26/2002	Shallow	--	**20.8**	**11.4**	--	**14.9**	--	<1	**319**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/19/2002	Shallow	--	**28.3**	**11.2**	--	**49.2**	--	<1	**1720**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/19/2002	Shallow	--	**43.6**	**28.3**	--	**166**	--	<1	**3070**	--	--	--	--	--	--	--	--	--	--
	12/18/2002	Shallow	--	3.95	**27.9**	--	**25**	--	<1	**638**	--	--	--	--	--	--	--	--	--	--
	3/24/2003	Shallow	3.1	3.52	**27**	3.81	7.83	--	<1	**507**	--	--	--	--	--	--	--	--	--	--
	6/24/2003	Shallow	**118**	**126**	**9.17**	1.39	**38.2**	--	<1	**1030**	--	--	--	--	--	--	--	--	--	--
	9/18/2003	Shallow	**62.8**	**52.8**	**19.5**	**28.8**	**46.8**	--	<1	**624**	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-17	12/16/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/18/2004	Shallow	<250	<50	<500	<0.500	<1.00	1.61	<1.00	<1.00	<1.00	<1.00	**1.82**	--	--	--
	6/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	**20.6**	<1.00	<1.00	<1.00	**1.81**	**7.83**	--	--	--
	9/7/2004	Shallow	<250	<50	<500	<0.500	<1.00	5.69	<1.00	<1.00	<1.00	<1.00	**4.62**	--	--	--
	12/8/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/30/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2005	Shallow	<19	<13	<28	<0.14	0.0082	0.23	<0.13	0.21	<0.11	0.19	0.082	--	--	--
	9/26/2005	Shallow	<250	--	<500	--	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Shallow		<50	--	0.52	0.018	0.80	0.26	<0.13	1.7	<0.14	**0.68**	--	--	--
	12/12/2005	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	0.22	<0.11	<0.14	<0.0081	--	--	--
	3/22/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	0.13	<0.11	<0.14	0.0081	--	--	--
	6/20/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	0.19	<0.11	0.15	0.013	--	--	--
	9/25/2006	Shallow	<8.2	<13	<19	0.26	0.01	0.46	0.2	<0.13	1.1	0.15	**0.31**	--	--	--
	12/5/2006	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	3/28/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0053	--	--	--
	6/27/2007	Shallow	<250	<50	<500	0.21	0.012 J	0.31	<0.13	<0.13	<0.57	0.15	**0.22**	--	--	--
	9/24/2007	Shallow	<250	<50	<500	0.24	0.019 J	0.56	<0.13	<0.13	0.33	<0.14	**0.68**	--	--	--
	12/11/2007	Shallow	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/26/2008	Shallow	<260	<50	<520	<0.14	<0.0061	<0.12	<0.13	0.15 J	<0.25	<0.14	<0.0035	--	--	--
	6/25/2008	Shallow	<250	<50	<500	0.090	<0.0061	<0.045	<0.042	0.15 J	<0.42	0.14	0.037	--	--	--
	9/8/2008	Shallow	<250	<50	<500	0.27	0.016 J	0.30	0.1 J	0.12 J	<0.3	0.15	**0.30**	--	--	--
	12/16/2008	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	0.22 J	<1.2	0.090	<0.0035	--	--	--
	3/12/2009	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	0.21 J	<0.048	0.10	<0.0084	--	--	--
	6/10/2009	Shallow	<250	<50	<500	0.040	<0.0095	0.080	<0.050	0.17 J	0.10	0.27	0.0089	--	--	--
	9/1/2009	Shallow	<250	<50	<500	0.33	0.014 J	0.28	0.1 J	<0.066	0.76	0.25	**0.24**	--	--	--
	12/29/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.14 J	<0.4	<0.10	<0.0084	--	--	--
	3/11/2010	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.11 J	<0.08	<0.10	<0.0084	--	--	--
	6/9/2010	Shallow	<260	<50	<520	<0.054	<0.0095	0.13	<0.050	0.11 J	0.070	<0.10	<0.0084	--	--	--
	9/2/2010	Shallow	<48	14	<65	0.20	0.0131 J	0.37	0.07 J	<0.099	0.58	0.13	**0.28**	--	--	--
	12/2/2010	Shallow	<14	<50	<023	<0.054	<0.0095	0.070	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	--
	3/8/2011	Shallow	<270	<50	<530	0.060	<0.0059	0.35	<0.050	0.15 J	<0.052	0.13	<0.0045	--	--	--
	6/8/2011	Shallow	<270	<50	<530	<0.054	<0.0059	0.62	<0.050	0.12 J	1.3	0.47	0.049	--	--	--
	9/8/2011	Shallow	<270	<50	<540	0.21	0.013 J	0.96	0.06 J	<0.099	0.70	0.21	**0.30**	--	--	--
	12/8/2011	Shallow	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	0.11 J	<0.052	<0.10	<0.0045	--	--	--
	6/5/2012	Shallow	<260	<250	<520	<0.062	<0.0059	<0.26	<0.050	0.099	<0.054	**0.72**	0.013	--	--	--
	6/5/2013	Shallow	<250	--	<500	<0.062	<0.0059	0.080	<0.050	0.21 J	<0.054	0.25	0.0091	--	--	--
	6/4/2014	Shallow	<260	--	<510	<0.062	<0.0090	0.70	<0.050	0.48 J	<0.054	0.56	0.094	--	--	--
	6/3/2015	Shallow	<130	--	<260	<0.50	<0.020	0.51	<0.50	<0.50	0.12	0.52	0.15	--	--	--
	6/9/2016	Shallow	<260	--	<520	0.11	0.013 J	3.4	0.060 J	0.20 J	0.15	**0.73**	**0.29**	--	--	--
CTMW-17D	3/22/2001	Deep	**2140**	<50	686	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2001	Deep	**1180**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/11/2001	Deep	**1770**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/27/2001	Deep	**2830**	<50	**579**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/26/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	2.82
	6/19/2002	Deep	284	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	2.84

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	--	--	--	--	--	--	--	--	--	**7E-06**
CTMW-17	12/16/2003	Shallow	3.84	3.52	**32.9**	4.63	**8.71**	--	<1	**354**	--	--	--	--	--	--	--	--	--	--
	3/18/2004	Shallow	**13.8**	**14.2**	**20.5**	3.84	6.39	--	<0.2	**316**	--	--	--	--	--	--	--	--	--	--
	6/9/2004	Shallow	**39.3**	**17.6**	<1	2.03	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/7/2004	Shallow	--	**82.7**	**17.7**	--	**23.1**	**580**	<0.2	**528**	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Shallow	--	2.2	**24**	--	3.08	27.8	<0.2	**298**	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Shallow	--	3.52	**33.4**	--	7.9	86.6	<0.2	**277**	--	--	--	--	--	--	--	--	--	--
	6/20/2005	Shallow	--	**41**	**37.1**	--	**18.4**	**501**	<0.2	**203**	--	--	--	--	--	--	--	--	--	--
	9/26/2005	Shallow	--	**23.8**	**10.6**	--	**12.9**	**614**	<0.08	**87.8**	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Shallow	--	**29**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2005	Shallow	--	4.5	**28**	--	**12.2**	78	<0.08	**432**	--	--	--	--	--	--	--	--	--	--
	3/22/2006	Shallow	--	**8.1**	**38.6**	--	**10.5**	**373**	<0.08	**272**	--	--	--	--	--	--	--	--	--	--
	6/20/2006	Shallow	--	**25.5**	**15.6**	--	**12.2**	**281**	<0.02	**94**	--	--	--	--	--	--	--	--	--	--
	9/25/2006	Shallow	--	**16.4**	**22.9**	--	**18.4**	**489**	<0.02	**145**	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Shallow	--	**13.1**	**73.3**	--	**14.6**	**270**	0.02	**205**	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Shallow	--	**5.95**	**39.6**	--	4.86	**299**	<0.02	**137**	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Shallow	**6.27**	**7.29**	**13**	1.79	**11.3**	**720**	<0.03	**91.6**	--	--	--	--	--	--	--	--	--	--
	9/24/2007	Shallow	--	4.3	**9.2**	--	**8.7**	**449**	<0.03	**545**	--	--	--	--	--	--	--	--	--	--
	12/11/2007	Shallow	--	**9**	**76**	--	**11.3**	**274**	<0.03	**419**	--	--	--	--	--	--	--	--	--	--
	3/26/2008	Shallow	--	<2.4	**27.6**	--	5.4	**144**	<0.03	**283**	--	--	--	--	--	--	--	--	--	--
	6/25/2008	Shallow	--	**5**	**24.85**	--	**10.72**	**708.9**	<0.03	**584.4**	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Shallow	--	**58.2**	**7.091**	--	**16.496**	**1340**	<0.05	**191.3**	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Shallow	--	**8.1**	**50.218**	--	**12.265**	**212**	<0.05	**255.3**	--	--	--	--	--	--	--	--	--	--
	3/12/2009	Shallow	--	3.2	**27.469**	--	**9.991**	**142**	<0.05	**201.3**	--	--	--	--	--	--	--	--	--	--
	6/10/2009	Shallow	--	**23.7**	**25.5**	--	**10.207**	**352**	<0.02	**140.3**	--	--	--	--	--	--	--	--	--	--
	9/1/2009	Shallow	--	**27.8**	**9.54**	--	**9.383**	**603**	<0.02	53.3	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Shallow	--	3.5	**35.07**	--	5.603	**101**	<0.02	**184**	--	--	--	--	--	--	--	--	--	--
	3/11/2010	Shallow	--	**7.5**	**31.66**	--	8.023	**278**	<0.02	**130.2**	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Shallow	--	3.2	**27.7**	--	2.833	**252**	<0.02	**164.9**	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Shallow	--	3.2	**16.85**	--	**8.66**	**667**	<0.02	**108.1**	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Shallow	--	<6.3	**24.95**	--	6.339	**241**	<0.02	**198**	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Shallow	--	4.2	**27.48**	--	4.545	**157**	<0.02	**100**	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Shallow	--	**12.8**	**15.85**	--	**8.795**	**927**	<0.02	72.2	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Shallow	--	2.9	**12.15**	--	**11.294**	**813**	<0.02	23.9	--	--	--	--	--	--	--	--	--	--
	12/8/2011	Shallow	--	**22.9**	**84.17**	--	**26.277**	**519**	<0.02	**488.2**	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Shallow	--	**18.9**	**31.26**	--	**16.098**	**510**	<0.02	**179.5**	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Shallow	--	**8.9**	**19.11**	--	**16.762**	--	**0.04 J**	**96.8**	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Shallow	--	**9.88**	**26.02**	--	**18.208**	--	<0.02	48.13	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Shallow	--	**7.74**	**22.04**	--	**15.594**	--	<0.2	18.97	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Shallow	--	**11.6**	**30.75**	--	**20.63**	--	<0.2	18.46	--	--	--	--	--	--	--	--	--	--
CTMW-17D	3/22/2001	Deep	--	3.02	**3.16**	--	<1	**340**	<1	10	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Deep	--	1.23	<1	--	<1	**350**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/11/2001	Deep	--	1.56	1.22	--	<1	**343**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/27/2001	Deep	--	**21**	**4.62**	--	<1	**4680**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/26/2002	Deep	--	1.7	<1	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/19/2002	Deep	--	1.62	<1	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	Date	Shallow/ Deep	Diesel	Gas	Motor/ Lube Oil	Benzene	1,1-DCE	cis-1,2-DCE	Ethyl-benzene	PCE	Toluene	TCE	VC	Benzo(a) pyrene	bis-2-ethylhexyl phthalate (DEHP)	1,4-dioxane
	Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Screening Level		500	800	500	1.6	4000	16	31	2.9	130	0.7	0.18	0.05	0.046	160
CTMW-17D	9/19/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2002	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/24/2003	Deep	300	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/25/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/18/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/16/2003	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/18/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/9/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/7/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/8/2004	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/30/2005	Deep	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2005	Deep	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/26/2005	Deep	<250	--	<500	--	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Deep		<22	--	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	12/12/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	3/22/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.12	<0.14	<0.0081	--	--	--
	6/20/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/25/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	12/5/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	3/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	6/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	--
	9/24/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	12/11/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/26/2008	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	0.15 J	<0.25	<0.14	<0.0035	--	--	--
	6/25/2008	Deep	<250	<50	<500	<0.045	<0.0061	<0.045	<0.042	0.15 J	<0.42	<0.061	<0.0035	--	--	--
	9/8/2008	Deep	<250	<50	<500	<0.045	0.016 J	<0.045	0.1 J	0.12 J	<0.12	<0.061	<0.0035	--	--	--
	12/16/2008	Deep	<260	<50	<520	<0.045	<0.0095	<0.045	<0.042	0.22 J	<1.2	<0.061	<0.0035	--	--	--
	3/12/2009	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	0.21 J	<0.22	<0.061	<0.0084	--	--	--
	6/10/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.17 J	<0.052	<0.10	<0.0084	--	--	--
	9/1/2009	Deep	<250	<50	<500	<0.038	0.014 J	<0.067	0.1 J	<0.066	<0.052	<0.10	<0.0084	--	--	--
	12/29/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.14 J	<0.27	<0.10	<0.0084	--	--	--
	3/11/2010	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	0.11 J	<0.052	<0.10	<0.0084	--	--	--
	6/9/2010	Deep	<260	<50	<520	<0.054	<0.0095	<0.067	<0.050	0.11 J	0.15	<0.10	<0.0084	--	--	--
	9/2/2010	Deep	<015	<50	<500	<0.054	0.0131 J	<0.067	0.07 J	<0.099	<0.052	<0.10	<0.0084	--	--	--
	12/2/2010	Deep	<14	<50	<540	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	--
	3/8/2011	Deep	<270	<50	<530	<0.054	<0.0059	<0.067	<0.050	0.15 J	<0.052	<0.10	<0.0045	--	--	--
	6/8/2011	Deep	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	0.12 J	<0.052	<0.10	<0.0045	--	--	--
	9/8/2011	Deep	<270	<50	<530	<0.054	0.013 J	<0.067	0.06 J	<0.099	<0.052	<0.10	<0.0045	--	--	--
	12/8/2011	Deep	<250	<50	<500	<0.054	<0.0059	<0.067	<0.050	0.11 J	<0.052	<0.10	<0.0045	--	--	--
	6/5/2012	Deep	<260	<250	<520	<0.062	<0.0059	<0.067	<0.050	0.099	<0.054	<0.10	<0.0046	--	--	--
	6/5/2013	Deep	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	0.21 J	<0.054	<0.10	<0.0046	--	--	--
	6/4/2014	Deep	<260	--	<520	<0.062	<0.0090	<0.067	<0.050	0.48 J	<0.054	<0.10	<0.0046	--	--	--
	6/3/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	--
	6/9/2016	Deep	<260	--	<520	<0.50	0.013 J	<0.50	0.060 J	0.20 J	<0.50	<0.50	<0.020	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-17D	9/19/2002	Deep	--	1.86	1.09	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2002	Deep	--	1.22	<1	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/24/2003	Deep	1.87	1.1	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/25/2003	Deep	2.25	1.62	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/18/2003	Deep	2.77	1.3	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/16/2003	Deep	2.54	3.46	1.42	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/18/2004	Deep	1.7	1.24	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/9/2004	Deep	1.8	**41.2**	**8.15**	<1	**14.4**	--	<0.2	**488**	--	--	--	--	--	--	--	--	--	--
	9/7/2004	Deep	--	1.61	<1	--	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Deep	--	0.44	<1	--	<1	**297**	<0.2	10.7	--	--	--	--	--	--	--	--	--	--
	3/30/2005	Deep	--	0.453	<1	--	<1	**290**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2005	Deep	--	0.31	0.7	--	0.05	**542**	<0.2	0.6	--	--	--	--	--	--	--	--	--	--
	9/26/2005	Deep	--	**6.84**	0.49	--	0.02	**347**	<0.08	1.93	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Deep	--	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/2005	Deep	--	4.3	**3.47**	--	0.031	**216**	<0.08	0.8	--	--	--	--	--	--	--	--	--	--
	3/22/2006	Deep	--	4.1	0.28	--	0.02	**318**	<0.08	3.77	--	--	--	--	--	--	--	--	--	--
	6/20/2006	Deep	--	1.3	0.44	--	0.021	**282**	<0.02	6.5	--	--	--	--	--	--	--	--	--	--
	9/25/2006	Deep	--	4.81	0.37	--	0.015	**235**	0.02	4.7	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Deep	--	1.99	0.31	--	<0.041	**261**	0.02	3.8	--	--	--	--	--	--	--	--	--	--
	3/27/2007	Deep	--	4.41	0.34	--	0.015	**272**	0.02	2.2	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Deep	--	**6.69**	0.24	--	0.014	**271**	**0.03**	1.54	--	--	--	--	--	--	--	--	--	--
	9/24/2007	Deep	--	1.6	0.32	--	<0.019	**252**	<0.03	0.67	--	--	--	--	--	--	--	--	--	--
	12/11/2007	Deep	--	2	**76**	--	<0.02	**274**	<0.03	**419**	--	--	--	--	--	--	--	--	--	--
	3/26/2008	Deep	--	<2	**27.6**	--	0.029	**144**	<0.03	**283**	--	--	--	--	--	--	--	--	--	--
	6/25/2008	Deep	<4	<3	**24.85**	0.117	0.114	**708.9**	<0.03	**584.4**	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Deep	--	<0.9	**7.091**	--	0.022	**1340**	<0.05	**191.3**	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Deep	--	2	**50.218**	--	0.02	**212**	<0.05	**255.3**	--	--	--	--	--	--	--	--	--	--
	3/12/2009	Deep	<2	<2	**27.469**	0.042	0.05	**142**	<0.05	**201.3**	--	--	--	--	--	--	--	--	--	--
	6/10/2009	Deep	--	<0.7	**25.5**	--	0.021	**352**	<0.02	**140.3**	--	--	--	--	--	--	--	--	--	--
	9/1/2009	Deep	--	1	**9.54**	--	<0.014	**603**	<0.02	53.3	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Deep	--	<1	**35.07**	--	0.028	**101**	<0.02	**184**	--	--	--	--	--	--	--	--	--	--
	3/11/2010	Deep	--	<1	**31.66**	--	0.031	**278**	<0.02	**130.2**	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Deep	--	<0.7	**27.7**	--	<0.061	**252**	<0.02	**164.9**	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Deep	--	0.7	**16.85**	--	<0.03	**667**	<0.02	**108.1**	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Deep	--	<0.8	**24.95**	--	<0.06	**241**	<0.02	**198**	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Deep	--	0.7	**27.48**	--	<0.039	**157**	<0.02	**100**	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Deep	--	0.6	**15.85**	--	<0.024	**927**	<0.02	72.2	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Deep	--	0.7	**12.15**	--	<0.116	**813**	<0.02	23.9	--	--	--	--	--	--	--	--	--	--
	12/8/2011	Deep	--	0.6	**84.17**	--	<0.031	**519**	<0.02	**488.2**	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Deep	--	1.5	**31.26**	--	0.03	**510**	<0.02	**179.5**	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Deep	--	0.7	**19.11**	--	0.048	--	**0.04 J**	**96.8**	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Deep	--	0.41	**26.02**	--	0.045	--	<0.02	48.13	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Deep	--	0.51	**22.04**	--	0.016	--	<0.2	18.97	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Deep	--	0.7	**30.75**	--	<0.076	--	<0.2	18.46	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-18	4/24/1991	Shallow	--	--	--	**25**	<1.0	3.6	<1.0	**3.8**	<1.0	**3.7**	**1.7**	--	--	--
	3/23/1998	Shallow	<1250	--	--	**1.9**	<1	1.3	<1	<1	<2	<2	<1	<1	**3.7**	--
	6/22/1998	Shallow	<1200	105	--	**2.5**	<2	<2	<2	<2	2.0	<2	<2	<1	<2	--
	9/21/1998	Shallow	**800**	<60	--	<13	<13	<13	<13	<13	<25	<25	<13	<1	<2	--
	12/16/1998	Shallow	<0.25	<300	--	**2.3**	<1	1.3	<1	<1	<2	<2	<1	<1	<2	--
	3/24/1999	Shallow	**1200**	<50	--	1.51	<0.01	0.517	<1	<0.05	1.01	<1	0.178	<5	<20	--
	6/25/1999	Shallow	**580**	<300	--	**11**	<0.2	1.5	3.9	<0.2	6.9	<2	<1	<1	<2	--
	9/23/1999	Shallow	**5800**	<300	--	**33**	<0.2	3.5	8.9	<0.2	21	**2.8**	<1	<1.0	**36**	--
	12/9/1999	Shallow	**1400**	<300	--	<0.20	<0.04	<0.20	<0.20	<0.04	2.7	**1.8**	<0.20	<1	<2	--
	3/22/2000	Shallow	**1270**	120	<750	1.55	<1.00	<1.00	<1.00	<1.00	1.09	<1.00	<1.00	<4.86	<24.3	--
	6/13/2000	Shallow	**1630**	<50	<500	**2.97**	<1.00	<1.00	1.75	<1.00	3.26	<1.00	<1.00	--	--	--
	9/27/2000	Shallow	--	--	--	**7.51**	<1.00	<1.00	4.83	<1.00	9.13	<1.00	<1.00	--	--	--
	12/18/2000	Shallow	**21800**	**1500**	**5800**	**6.88**	<1.00	<1.00	4.44	<1.00	9.16	<1.00	<1.00	--	--	--
	3/23/2001	Shallow	**7120**	160	**2670**	**2.32**	<1.00	<1.00	2.84	<1.00	2.93	<1.00	<1.00	--	--	--
	6/21/2001	Shallow	**4940**	110	**1670**	**2.78**	<1.00	<1.00	2.21	<1.00	3.72	<1.00	<1.00	--	--	--
	9/13/2001	Shallow	**12900**	720	**4380**	**5.51**	<1.00	<1.00	4.63	<1.00	7.92	<1.00	<1.00	--	--	--
	12/27/2001	Shallow	**3860**	330	**960**	**4.12**	<1.00	<1.00	1.54	<1.00	3.66	<1.00	<1.00	<10.0	--	--
	3/22/2002	Shallow	296	51	<500	**1.93**	<1.00	<1.00	<1.00	<1.00	1.52	<1.00	<1.00	--	--	4.7
	6/17/2002	Shallow	**855**	660	<500	**4.15**	<1.00	<1.00	3.4	<1.00	5.57	<1.00	<1.00	--	--	6.61
	9/18/2002	Shallow	<250	510	<500	**5.6**	<1.00	<1.00	4.15	<1.00	7.11	<1.00	<1.00	--	--	--
	12/19/2002	Shallow	<250	450	<500	**4.41**	<1.00	<1.00	2.51	<1.00	4.77	<1.00	<1.00	--	--	--
	3/20/2003	Shallow	**1430**	130	<500	**2.87**	<1.00	<1.00	1.43	<1.00	2.36	<1.00	<1.00	--	--	--
	6/25/2003	Shallow	**3340**	170	**736**	**3.4**	<1.00	<1.00	2.82	<1.00	3.8	<1.00	<1.00	--	--	--
	9/16/2003	Shallow	**3740**	130	**686**	**3.69**	<1.00	<1.00	2.59	<1.00	3.76	<1.00	<1.00	--	--	--
	12/15/2003	Shallow	324	<50	<500	**2.14**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/16/2004	Shallow	<250	61	<500	1.19	2.04	<1.00	1.33	<1.00	1.2	<1.00	<1.00	--	--	--
	6/8/2004	Shallow	387	<50	<500	0.93	<1.00	<1.00	1.58	<1.00	1.28	<1.00	<1.00	--	--	--
	9/9/2004	Shallow	**1500**	300	<500	**3.69**	<1.00	<1.00	3.56	<1.00	4.86	<1.00	<1.00	--	--	--
	12/7/2004	Shallow	**1500**	<50	<500	**5.56**	<1.00	<1.00	4.87	<1.00	6.63	<1.00	<1.00	--	--	--
	3/29/2005	Shallow	454	<50	<500	**4.56**	<1.00	<1.00	3.4	<1.00	4.66	<1.00	<1.00	--	--	--
	6/22/2005	Shallow	**700**	350	<28	**3.6**	0.32	0.36	2.4	<0.13	3.3	0.23	**0.29**	--	--	--
	9/28/2005	Shallow	**730**	950	<500	**5.7**	0.23	0.22	5.0	<0.13	7.7	0.17	**0.29**	--	--	--
	12/14/2005	Shallow	410	520	<500	**4.7**	0.17	0.53	3.0	<0.13	5.6	0.24	**0.33**	--	--	--
	6/21/2006	Shallow	460	<570	<500	**3.3**	0.055	0.33	2.9	<0.13	3.6	0.16	**0.22**	--	--	--
	9/27/2006	Shallow	<470	<570	<19	**3.7**	0.032	0.19	3.8	<0.13	5.1	0.14	**0.20**	--	--	--
	12/6/2006	Shallow	<250	<50	<500	**2.0**	0.14	0.77	0.37	<0.13	0.49	0.24	**0.27**	--	--	--
	3/27/2007	Shallow	<250	<50	<500	**1.9**	0.064	0.56	0.41	<0.13	0.65	0.15	**0.20**	--	--	--
	6/28/2007	Shallow	<250	130	<500	**2.5**	0.052	0.27	2.0	<0.13	2.4	<0.14	0.14	--	--	--
	9/26/2007	Shallow	430	**860**	<500	**5.4**	0.036	0.34	3.8	<0.26	6.0	<0.27	**0.40**	--	--	--
	12/11/2007	Shallow	**860**	720	<19	**4.2**	0.15	0.37	2.7	<0.13	3.9	0.18	**0.20**	--	--	--
	3/26/2008	Shallow	**960**	**920**	<500	**5.5**	0.065	0.41	4.3	<0.13	5.5	<0.14	**0.34**	--	--	--
	6/24/2008	Shallow	**860**	**930**	<500	**4.3**	0.056	0.30	3.1	<0.077	4.7	0.13	0.16	--	--	--
	9/10/2008	Shallow	**1500**	**2000**	<500	**6.7**	0.026	<0.23	5.9	<0.39	9.0	<0.31	**0.21**	--	--	--
	12/22/2008	Shallow	**560**	**820**	<520	**4.6**	0.069	0.59	3.1	<0.077	6.2	0.13	**0.22**	--	--	--
	3/11/2009	Shallow	**800**	790	<500	**4.4**	0.031	0.35	3.3	<0.077	4.2	<0.061	0.17	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-18	4/24/1991	Shallow	<10	<10	**48**	<20	56	--	**0.3**	**170**	--	--	--	--	--	--	--	--	--	--
	3/23/1998	Shallow	--	<10	<25	--	<3	--	<1	31.1	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	6/22/1998	Shallow	--	**14**	<25	--	<3	--	<1	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/21/1998	Shallow	--	**23**	<25	--	<3	--	<0.2	<20	<0.05	<0.05	<0.05	<0.05	0.36	<0.05	<0.05	--	--	--
	12/16/1998	Shallow	--	<10	<25	--	<3	--	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	3/24/1999	Shallow	--	**13.9**	**4.06**	--	<1	--	<1	13.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--
	6/25/1999	Shallow	--	**14**	<25	--	<3	**3000**	<0.2	<20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--
	9/23/1999	Shallow	--	**21**	<25	--	<3	--	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	12/9/1999	Shallow	--	**18**	<25	--	<3	15	<0.2	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--	--	--
	3/22/2000	Shallow	--	**15.1**	**2.59**	--	<1	**2910**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/13/2000	Shallow	--	**20.8**	**3.63**	--	1.33	**5040**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/27/2000	Shallow	--	**39**	**5.35**	--	<1	**7730**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2000	Shallow	--	**27.2**	**5.07**	--	2.52	**9080**	<1	14.1	--	--	--	--	--	--	--	--	--	--
	3/23/2001	Shallow	--	**17.7**	**5.98**	--	1.47	**4350**	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Shallow	--	**27.8**	**3.51**	--	6.25	**2420**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	--	**36.2**	**3.07**	--	<1	**2490**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/27/2001	Shallow	--	1.95	<1	--	<1	**317**	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	3/22/2002	Shallow	--	**16**	**3.16**	--	<1	--	<1	<10	<0.588	<0.588	<0.588	<0.588	<0.588	<0.588	<0.588	<0.588	<0.588	--
	6/17/2002	Shallow	--	**27.5**	1.35	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Shallow	--	**38.9**	**2.66**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2002	Shallow	--	**25.4**	1.77	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/20/2003	Shallow	**23.6**	**23.8**	1.59	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/25/2003	Shallow	**33.2**	**31**	1.37	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/16/2003	Shallow	**58.7**	**39.2**	1.82	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/15/2003	Shallow	**28.8**	**27.9**	**2.91**	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/16/2004	Shallow	**17.5**	**17.4**	**5.29**	1.08	3.24	--	0.235	<10	--	--	--	--	--	--	--	--	--	--
	6/8/2004	Shallow	**22.3**	**21.8**	**15**	4.77	**8.29**	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/9/2004	Shallow	--	**35.3**	1.31	--	<1	**1280**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/7/2004	Shallow	--	**33.2**	1.56	--	<1	**3570**	<0.5	<10	--	--	--	--	--	--	--	--	--	--
	3/29/2005	Shallow	--	**26.6**	1.01	--	<1	**5600**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/22/2005	Shallow	--	**36.2**	1.6	--	0.2	**7140**	<0.2	0.8	--	--	--	--	--	--	--	--	--	--
	9/28/2005	Shallow	--	**40.5**	0.73	--	0.13	**1920**	<0.08	0.41	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Shallow	--	**29.3**	0.8	--	0.095	**3510**	<0.08	1.22	--	--	--	--	--	--	--	--	--	--
	6/21/2006	Shallow	--	**33.9**	1.09	--	0.148	**2880**	0.02	2.1	--	--	--	--	--	--	--	--	--	--
	9/27/2006	Shallow	--	**44.4**	1.11	--	0.14	**1690**	0.02	4.7	--	--	--	--	--	--	--	--	--	--
	12/6/2006	Shallow	--	**23.3**	**3.6**	--	0.595	**4130**	0.02	3.6	--	--	--	--	--	--	--	--	--	--
	3/27/2007	Shallow	--	**28.5**	1.15	--	0.189	**5750**	**0.03**	2.9	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Shallow	--	**34.5**	1.44	--	0.307	**2740**	**0.03**	1.7	--	--	--	--	--	--	--	--	--	--
	9/26/2007	Shallow	--	**44.1**	1.4	--	0.232	**2380**	**0.05**	1.1	--	--	--	--	--	--	--	--	--	--
	12/11/2007	Shallow	--	**31**	1.06	--	<0.241	**6930**	<0.03	7.7	--	--	--	--	--	--	--	--	--	--
	3/26/2008	Shallow	--	<28.6	1	--	0.13	**7600**	<0.03	4.1	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Shallow	--	**32.6**	0.93	--	0.233	**4640**	<0.03	2.2	--	--	--	--	--	--	--	--	--	--
	9/10/2008	Shallow	--	**39.6**	0.674	--	0.194	**2440**	<0.05	5.2	--	--	--	--	--	--	--	--	--	--
	12/22/2008	Shallow	--	**31.6**	0.541	--	0.109	**6130**	<0.05	1	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Shallow	--	**26.9**	0.809	--	0.162	**6620**	<0.05	4	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-18	6/10/2009	Shallow	510	530	<500	**3.5**	0.035	0.38	2.3	<0.066	3.2	<0.10	0.17	--	--	--
	9/2/2009	Shallow	<250	**830**	<500	**4.7**	0.020	0.21	4.2	<0.066	6.4	<0.10	0.15	--	--	--
	12/29/2009	Shallow	<250	250	<500	**3.1**	0.041	0.47	1.4	<0.066	2.8	<0.10	0.15	--	--	--
	3/10/2010	Shallow	<260	250	<520	**3.5**	0.033	0.35	2.3	<0.066	3.5	<0.10	**0.21**	--	--	--
	6/15/2010	Shallow	<260	200	<520	**3.1**	0.031	<0.4	2.1	<0.066	3.3	<0.10	**0.21**	--	--	2.6
	9/2/2010	Shallow	440	260	<70	**3.9**	0.023	0.29	3.5	<0.099	4.6	<0.10	0.12	--	--	2.5
	12/2/2010	Shallow	95	170	<28	**4.1**	0.025	0.45	2.9	<0.099	4.7	0.10	**0.19**	--	--	2.3
	3/10/2011	Shallow	<270	190	<530	**3.5**	0.023	0.33	2.5	<0.099	3.6	<0.10	**0.24**	--	--	2.1
	6/9/2011	Shallow	<260	220	<520	**3.4**	0.020	0.23	2.5	<0.099	3.8	<0.10	0.16	--	--	1.3
	9/9/2011	Shallow	340	320	<540	**4.5**	0.014	0.14	4.4	<0.099	5.9	<0.10	0.15	--	--	--
	12/7/2011	Shallow	<260	130	<520	**2.1**	0.019	0.22	1.2	<0.099	1.2	<0.10	0.060	--	--	--
	6/11/2012	Shallow	310	100	<440	**3.0**	0.021	0.24	1.2	<0.099	1.8	<0.10	0.079	--	--	--
	6/4/2013	Shallow	<250	23	<500	1.2	0.0079	0.12	0.13 J	<0.099	<0.3	<0.10	0.020	--	--	0.71 J
	6/3/2014	Shallow	<260	35	<510	0.93	0.016	0.16	0.20 J	0.13 J	0.27	<0.10	0.023	--	--	0.87 J
	6/2/2015	Shallow	340	220	<260	**2.0**	<0.020	0.12	2.1	<0.50	1.8	<0.50	0.047	--	--	1.6
	6/8/2016	Shallow	<260	<50	<520	0.28	0.01	0.12	0.29 J	<0.50	0.33	0.28	0.024	--	--	1
CTMW-19	6/23/2000	Shallow	257	<50	<500	<1.00	<1.00	1.23	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/25/2000	Shallow	--	--	--	<1.00	<1.00	1.52	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2000	Shallow	334	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/22/2001	Shallow	387	<50	<500	<1.00	<1.00	1.31	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2001	Shallow	315	<50	<500	<1.00	<1.00	1.11	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/13/2001	Shallow	344	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/21/2001	Shallow	461	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/22/2002	Shallow	<250	<50	<500	<0.500	<1.00	1.06	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
CTMW-20	6/23/2000	Shallow	297	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/26/2000	Shallow		--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2000	Shallow	317	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/22/2001	Shallow	287	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/20/2001	Shallow	262	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/14/2001	Shallow	<250	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/19/2001	Shallow	291	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.12
	6/21/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	<1.00
	9/17/2002	Shallow	<250	<50	<500	0.886	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/17/2002	Shallow	**923**	<50	<500	0.937	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/24/2003	Shallow	**1780**	<50	<500	**3.94**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/25/2003	Shallow	**5180**	72	**666**	**17.4**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/17/2003	Shallow	**2520**	76	<500	**9**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/15/2003	Shallow	381	58	<500	**12.4**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/18/2004	Shallow	<250	95	<500	**18.8**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/10/2004	Shallow	**2040**	81	<500	**21**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/8/2004	Shallow	**1030**	160	<500	**36.1**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/9/2004	Shallow	522	<50	<500	**40.4**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/31/2005	Shallow	266	63	<500	**10.7**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2005	Shallow	<19	<13	<28	**18**	<0.0047	0.44	<0.13	0.29	0.31	0.22	**0.27**	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-18	6/10/2009	Shallow	--	**31.1**	0.76	--	0.147	**5330**	<0.02	5.3	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Shallow	--	**40.9**	0.69	--	0.184	**1970**	<0.02	0.9	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Shallow	--	**29.9**	0.99	--	0.093	**6120**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Shallow	--	**27.5**	1	--	0.171	**4700**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	6/15/2010	Shallow	--	**32.1**	0.67	--	0.221	**4600**	0.02 J	0.7	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Shallow	--	**42.8**	0.87	--	0.205	**2620**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Shallow	--	**38.6**	1.67	--	0.28	**3840**	<0.02	1.3	--	--	--	--	--	--	--	--	--	--
	3/10/2011	Shallow	--	**24.5**	0.5	--	0.111	**3780**	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Shallow	--	**28.8**	0.56	--	0.083	**4240**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	9/9/2011	Shallow	--	**36.6**	0.54	--	<0.14	**1460**	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Shallow	--	**18.9**	**6.95**	--	0.293	**1590**	<0.02	7.1	--	--	--	--	--	--	--	--	--	--
	6/11/2012	Shallow	--	**15.5**	0.86	--	0.234	**4070**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	**12.8**	**2.57**	--	0.199	--	**0.08 J**	2.7	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	**9.58**	1.06	--	0.451	--	<0.02	4.25	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	<23.44	0.99	--	0.299	--	<0.2	1.05	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Shallow	--	**6.3**	1.18	--	0.183	--	<0.2	0.69	--	--	--	--	--	--	--	--	--	--
CTMW-19	6/23/2000	Shallow	--	**6.95**	**7.35**	--	4.89	30.3	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/25/2000	Shallow	--	**7.79**	**3.12**	--	4.89	29.9	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2000	Shallow	--	**6.35**	**3.03**	--	1.87	20.6	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/22/2001	Shallow	--	4.49	**5.54**	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2001	Shallow	--	1.89	**6.42**	--	1.1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	--	1.91	1.81	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/21/2001	Shallow	--	3.16	**9.83**	--	<1	10	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/22/2002	Shallow	--	2.82	**8.9**	--	1.17	--	<1	10.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
CTMW-20	6/23/2000	Shallow	--	3.89	**2.8**	--	<1	**114**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/26/2000	Shallow	--	4.17	<1	--	<1	**243**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2000	Shallow	--	**5**	<1	--	<1	**268**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/22/2001	Shallow	--	1.3	1.87	--	<1	**102**	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2001	Shallow	--	2.24	1.16	--	<1	**105**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/14/2001	Shallow	--	4.75	<1	--	<1	**211**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2001	Shallow	--	2.15	<1	--	<1	**202**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/21/2002	Shallow	--	2.42	<1	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/21/2002	Shallow	--	**5.27**	<1	--	<1	--	<1	<10	<0.595	<0.595	<0.595	<0.595	<0.595	<0.595	<0.595	--	--	--
	9/17/2002	Shallow	--	3.1	<1	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Shallow	--	3.84	**8.69**	--	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/24/2003	Shallow	4.07	3.45	2	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/25/2003	Shallow	3.64	2.98	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/17/2003	Shallow	8.75	3.15	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/15/2003	Shallow	1.56	2.59	1.3	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/18/2004	Shallow	1.89	1.95	1.96	<1	<1	--	<0.2	**872**	--	--	--	--	--	--	--	--	--	--
	6/10/2004	Shallow	2.12	1.52	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/8/2004	Shallow	--	1.37	<1	--	<1	**461**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/9/2004	Shallow	--	1.12	1.2	--	<1	**331**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	3/31/2005	Shallow	--	1.05	1.3	--	<1	**296**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/21/2005	Shallow	--	4.8	1.7	--	0.03	**466**	<0.2	1.4	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-20	9/28/2005	Shallow	<250	83	<50	**29**	<0.0047	0.28	0.14	<0.13	0.24	<0.14	**0.45**	--	--	--
	12/14/2005	Shallow	<250	76	<50	**38**	<0.0047	0.14	<0.13	<0.13	3.0	<0.14	**0.43**	--	--	--
	3/23/2006	Shallow	<250	<50	<500	**11**	0.0063	<0.12	<0.13	<0.13	<0.18	<0.14	0.15	--	--	--
	6/22/2006	Shallow	<250	53	<500	**30**	<0.0047	<0.12	<0.13	<0.13	0.14	<0.14	**0.26**	--	--	--
	9/28/2006	Shallow	<8.2	<120	<19	**56**	<0.0066	0.12	0.16	<0.13	0.42	<0.14	**0.45**	--	--	--
	12/6/2006	Shallow	<250	<50	<500	**19**	<0.0066	<0.12	<0.13	<0.13	0.17	<0.14	0.17	--	--	--
	3/28/2007	Shallow	<250	<50	<500	**8.8**	<0.0066	<0.12	<0.13	<0.13	0.11	<0.14	0.14	--	--	--
	6/29/2007	Shallow	<250	<50	<500	**10**	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	**0.18**	--	--	--
	9/26/2007	Shallow	<250	93	<500	**24**	<0.0061	<0.12	<0.13	<0.13	0.26	<0.14	**0.31**	--	--	--
	12/13/2007	Shallow	<11	<13	<19	**12**	<0.0061	<0.12	<0.13	<0.13	0.12	<0.14	0.14	--	--	--
	3/27/2008	Shallow	<250	<50	<500	**6.2**	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	0.13	--	--	--
	6/24/2008	Shallow	<250	<50	<500	**5.7**	<0.0061	<0.045	<0.042	<0.077	<0.42	<0.061	0.13	--	--	--
	9/9/2008	Shallow	<250	<50	<500	**6.4**	<0.0095	<0.045	<0.042	<0.077	0.26	<0.061	0.15	--	--	--
	12/23/2008	Shallow	<270	<50	<5300	**5.9**	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	0.098	--	--	--
	3/10/2009	Shallow	<260	<50	<520	**6.0**	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	0.099	--	--	--
	6/11/2009	Shallow	<250	<50	<500	**7.0**	<0.0095	<0.067	<0.050	<0.066	<0.13	<0.10	0.094	--	--	--
	9/3/2009	Shallow	<250	<50	<500	**5.9**	<0.0095	<0.067	<0.050	<0.066	0.12	<0.10	0.11	--	--	--
	12/30/2009	Shallow	<250	<50	<500	**5.5**	<0.0095	<0.067	<0.050	<0.066	<0.27	<0.10	0.056	--	--	--
	3/10/2010	Shallow	<250	<50	<500	**5.3**	<0.0095	<0.067	0.05 J	<0.066	<0.11	<0.10	0.070	--	--	--
	6/8/2010	Shallow	<250	43	<500	**6.2**	<0.0095	<0.067	<0.050	<0.066	0.13	<0.10	0.058	--	--	--
	9/1/2010	Shallow	100	<38	<42	**6.6**	<0.0095	<0.067	<0.050	<0.099	0.14	<0.10	0.060	--	--	--
	12/1/2010	Shallow	<27	<50	<23	**8.9**	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	0.057	--	--	--
	3/9/2011	Shallow	<260	<50	<520	**5.2**	<0.0059	<0.067	<0.050	<0.099	0.090	<0.10	0.059	--	--	--
	6/8/2011	Shallow	<280	<50	<550	**8.0**	<0.0059	<0.067	<0.050	<0.099	0.12	<0.10	0.056	--	--	--
	9/8/2011	Shallow	<270	70	<5300	**12**	<0.0059	<0.067	<0.050	<0.099	0.20	<0.10	0.063	--	--	--
	12/6/2011	Shallow	<260	<50	<520	**12**	<0.0059	<0.067	<0.050	<0.099	0.16	<0.10	0.040	--	--	--
	6/8/2012	Shallow	20	<250	<520	**7.8**	<0.0059	<0.067	<0.050	<0.099	0.13	<0.10	0.041	--	--	--
	6/4/2013	Shallow	<250	68	<500	**6.5**	<0.0059	<0.067	<0.050	<0.099	<0.15	<0.10	0.034	--	--	--
	6/3/2014	Shallow	<260	90	<510	**1.7**	<0.0090	<0.067	<0.050	<0.099	0.14	<0.10	0.029	--	--	--
	6/2/2015	Shallow	<130	52	<260	**2.3**	<0.020	<0.50	<0.50	<0.50	0.12	<0.50	0.033	--	--	--
	6/8/2016	Shallow	<260	<50	<520	0.63	<0.020	<0.50	<0.50	<0.50	0.070	<0.50	0.025	--	--	--
CTMW-21	6/23/2000	Shallow	408	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/26/2000	Shallow		--	--	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/15/2000	Shallow	**1740**	<50	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/20/2001	Shallow	**2120**	<50	**594**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/19/2001	Shallow	**7830**	<50	**539**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/13/2001	Shallow	**8140**	<50	<1500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/18/2001	Shallow	**6330**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/21/2002	Shallow	**843**	52	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	2.97
	6/21/2002	Shallow	**347**	53	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	3.18
	9/17/2002	Shallow	<250	53	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/17/2002	Shallow	**3500**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/24/2003	Shallow	**3250**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/26/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/17/2003	Shallow	**1250**	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	--	--	--	--	--	--	--	--	--	**7E-06**
CTMW-20	9/28/2005	Shallow	--	**8.35**	1.36	--	0.02	**1130**	<0.08	2.16	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Shallow	--	3.5	0.93	--	0.009	**403**	<0.08	0.77	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Shallow	--	3.05	0.95	--	0.02	**461**	<0.08	3.68	--	--	--	--	--	--	--	--	--	--
	6/22/2006	Shallow	--	**6.6**	1.4	--	0.008	**958**	0.03	2.4	--	--	--	--	--	--	--	--	--	--
	9/28/2006	Shallow	--	**5.64**	0.85	--	0.013	**805**	0.03	5.5	--	--	--	--	--	--	--	--	--	--
	12/6/2006	Shallow	--	2.38	1.83	--	<0.032	**695**	<0.02	4.6	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Shallow	--	4.37	0.88	--	0.037	**507**	<0.02	3.7	--	--	--	--	--	--	--	--	--	--
	6/29/2007	Shallow	--	1.74	0.18	--	0.013	**598**	<0.03	0.38	--	--	--	--	--	--	--	--	--	--
	9/26/2007	Shallow	--	2.8	0.72	--	<0.014	**1190**	0.04	1	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Shallow	--	6	1.34	--	<0.024	**794**	<0.03	2.9	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Shallow	--	<5	0.68	--	0.034	**502**	<0.03	4.7	--	--	--	--	--	--	--	--	--	--
	6/24/2008	Shallow	--	<8	0.88	--	0.044	**343.4**	<0.03	1	--	--	--	--	--	--	--	--	--	--
	9/9/2008	Shallow	--	<7.1	0.714	--	0.014	**386**	<0.05	1.7	--	--	--	--	--	--	--	--	--	--
	12/23/2008	Shallow	--	4	0.706	--	0.07	**377**	<0.05	0.8	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	2.8	0.717	--	0.056	**325**	<0.05	1.6	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Shallow	--	3.6	0.77	--	0.043	**394**	<0.02	3.2	--	--	--	--	--	--	--	--	--	--
	9/3/2009	Shallow	--	**5.1**	0.6	--	0.016	**359**	<0.02	0.2	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Shallow	--	3.9	1.1	--	0.029	**479**	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Shallow	--	1.5	0.73	--	0.032	**433**	<0.02	1.1	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	2.6	0.41	--	<0.061	**416**	0.02 J	0.4 J	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Shallow	--	4.2	0.83	--	0.021	**534**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	--	4	0.52	--	<0.021	**676**	<0.02	0.2 J	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Shallow	--	2.5	0.39	--	<0.031	**428**	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Shallow	--	2.5	0.56	--	<0.027	**417**	<0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Shallow	--	2.5	0.34	--	<0.116	**709**	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Shallow	--	1.9	1.66	--	<0.02	**655**	<0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	6/8/2012	Shallow	--	2.4	0.67	--	0.014	**733**	<0.02	0.3 J	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	3.3	0.61	--	<0.012	--	0.13 J	0.5 J	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	3.87	0.73	--	<0.023	--	<0.02	0.89	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	4.63	0.31	--	0.004	--	<0.2	0.17 J	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Shallow	--	3.4	0.47	--	<0.04	--	<0.2	0.87	--	--	--	--	--	--	--	--	--	--
CTMW-21	6/23/2000	Shallow	--	3.96	2.37	--	1.07	**236**	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/26/2000	Shallow	--	1.77	**3.33**	--	5.02	**255**	<1	11.3	--	--	--	--	--	--	--	--	--	--
	12/15/2000	Shallow	--	1.44	**4.35**	--	**10.6**	**301**	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/20/2001	Shallow	--	1.45	2.12	--	2.31	**372**	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/19/2001	Shallow	--	2.23	**5.26**	--	6.61	**250**	<1	14.1	--	--	--	--	--	--	--	--	--	--
	9/13/2001	Shallow	--	1.94	2.39	--	3.34	**217**	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/18/2001	Shallow	--	1.62	1.04	--	1.4	**193**	<1	28.8	--	--	--	--	--	--	--	--	--	--
	3/21/2002	Shallow	--	4.15	**13.6**	--	**20.5**	--	<1	38.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--
	6/21/2002	Shallow	--	4.05	**21.6**	--	**28.9**	--	<1	58.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/17/2002	Shallow	--	2.52	**11.6**	--	**14.5**	--	<1	29.2	--	--	--	--	--	--	--	--	--	--
	12/17/2002	Shallow	--	3.58	**9.12**	--	**8.55**	--	<1	439	--	--	--	--	--	--	--	--	--	--
	3/24/2003	Shallow	0.255	0.263	<1	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/26/2003	Shallow	1.43	1.21	1.34	<1	1.4	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/17/2003	Shallow	2.89	1.87	1.31	<1	1.27	--	<1	<10	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-21	12/15/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/18/2004	Shallow	<250	78	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/9/2004	Shallow	**937**	62	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/8/2004	Shallow	303	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	3/31/2005	Shallow	362	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	6/21/2005	Shallow	<19	<13	<28	<0.14	<0.0047	<0.12	<0.13	<0.13	0.31	<0.14	<0.0081	--	--	--
	9/27/2005	Shallow	<250	51	<500	<0.14	<0.0047	<0.12	0.20	<0.13	0.12	<0.14	<0.0081	--	--	--
	12/13/2005	Shallow	<250	<50	<500	<0.14	0.0053	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	3/22/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.12	<0.14	<0.0081	--	--	--
	6/20/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/26/2006	Shallow	<8.2	<13	<19	<0.14	<0.0066	0.12	<0.13	<0.13	<0.11	<0.14	0.0052	--	--	--
	12/4/2006	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0063	--	--	--
	3/26/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	6/28/2007	Shallow	<250	50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.35	<0.14	0.0057	--	--	--
	9/25/2007	Shallow	<250	68	<500	<0.14	<0.0061	0.12	<0.13	<0.13	<0.11	<0.14	0.0049	--	--	--
	12/10/2007	Shallow	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/25/2008	Shallow	<260	<50	<520	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.34	<0.14	<0.0035	--	--	--
	6/23/2008	Shallow	<250	<50	<500	0.090	<0.0061	0.13	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	--
	9/8/2008	Shallow	<250	53	<500	0.080	<0.0095	0.090	<0.042	<0.077	<0.09	<0.061	0.0044	--	--	--
	12/16/2008	Shallow	<260	<50	<520	0.050	<0.0095	<0.045	0.07 J	<0.077	<1.2	<0.061	<0.0035	--	--	--
	3/10/2009	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	0.06 J	<0.077	<0.048	<0.061	<0.0084	--	--	--
	6/16/2009	Shallow	<260	53	<510	0.080	<0.0095	<0.067	<0.050	<0.066	0.070	<0.10	<0.0084	--	--	--
	9/2/2009	Shallow	<260	66	<520	0.10	<0.0095	0.11	<0.050	<0.066	0.13	<0.10	<0.0084	--	--	--
	12/30/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.23	<0.10	<0.0084	--	--	--
	3/10/2010	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	6/8/2010	Shallow	<260	<50	<520	<0.054	<0.0095	<0.067	<0.050	<0.066	0.090	<0.10	<0.0084	--	--	--
	9/1/2010	Shallow	87	<40	<57	0.060	<0.0095	0.090	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	--
	12/1/2010	Shallow	<18	<50	<38	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	--
	3/8/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
CTMW-23	6/18/2002	Shallow	<250	<50	<500	0.536	<1.00	**26.2**	<1.00	1.76	<1.00	**2.41**	**16.2**	--	--	<1.00
	9/18/2002	Shallow	<250	<50	<500	0.518	<1.00	**22.2**	<1.00	1.06	<1.00	**1.73**	**12.9**	--	--	--
	12/19/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	1.06	<1.00	<1.00	<1.00	--	--	--
	3/24/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	1.5	<1.00	**1.06**	<1.00	--	--	--
	6/25/2003	Shallow	<250	<50	<500	<0.500	<1.00	3.89	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	9/17/2003	Shallow	<250	<50	<500	<0.500	<1.00	3.59	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
	12/16/2003	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	1.39	<1.00	**1.08**	<1.00	--	--	--
	3/16/2004	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	2.07	<1.00	**1.56**	<1.00	--	--	--
	6/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	3.49	<1.00	1.09	<1.00	**1.41**	<1.00	--	--	--
	9/7/2004	Shallow	<281	<50	<562	<0.500	<1.00	2.32	<1.00	<1.00	<1.00	**1.82**	**1.84**	--	--	--
	12/9/2004	Shallow	<250	<50	<500	<0.500	<1.00	3.06	<1.00	<1.00	<1.00	**1.93**	<1.00	--	--	--
	3/31/2005	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	1.16	<1.00	**1.45**	<1.00	--	--	--
	6/20/2005	Shallow	<19	<13	<28	<0.14	0.015	2.1	<0.13	0.55	<0.11	**1.3**	0.068	--	--	--
	9/29/2005	Shallow	<250	<22	<500	<0.14	0.016	0.97	<0.13	0.29	<0.11	**0.86**	0.15	--	--	--
	12/13/2005	Shallow	<250	<50	<500	<0.14	<0.0047	1.3	<0.13	0.92	3.0	**1.4**	<0.0081	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-21	12/15/2003	Shallow	0.308	1.9	1.04	<1	1.01	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/18/2004	Shallow	1.03	1.71	**3.11**	<1	3.84	--	<0.2	15.4	--	--	--	--	--	--	--	--	--	--
	6/9/2004	Shallow	0.496	1.19	<1	<1	<1	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/9/2004	Shallow	--	1.64	**2.54**	--	3.76	--	<0.2	11.7	--	--	--	--	--	--	--	--	--	--
	12/8/2004	Shallow	0.63	0.86	<1	<1	<1	**253**	<0.2	48.1	--	--	--	--	--	--	--	--	--	--
	3/31/2005	Shallow	--	2.05	1.46	--	2.58	**210**	<0.2	15.1	--	--	--	--	--	--	--	--	--	--
	6/21/2005	Shallow	--	0.98	1	--	0.46	**204**	<0.2	4	--	--	--	--	--	--	--	--	--	--
	9/27/2005	Shallow	--	1.7	0.55	--	0.43	**192**	<0.08	1.75	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Shallow	--	1.8	0.48	--	0.167	**150**	<0.08	2.3	--	--	--	--	--	--	--	--	--	--
	3/22/2006	Shallow	--	1.33	0.44	--	0.18	**144**	<0.08	5.57	--	--	--	--	--	--	--	--	--	--
	6/20/2006	Shallow	--	0.9	0.47	--	0.314	**175**	0.02	3.3	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Shallow	--	2.76	1.1	--	0.791	**163**	<0.02	4.7	--	--	--	--	--	--	--	--	--	--
	12/4/2006	Shallow	--	2.56	0.88	--	0.361	**141**	<0.02	8.6	--	--	--	--	--	--	--	--	--	--
	3/26/2007	Shallow	--	1.68	0.62	--	0.401	**211**	0.02	5.5	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Shallow	--	2.19	0.62	--	0.316	**184**	<0.03	3.84	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Shallow	--	1.3	0.52	--	0.356	**170**	<0.03	2.8	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Shallow	--	**9**	1.18	--	<0.344	90.1	<0.03	12.2	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Shallow	--	<1.6	2.3	--	0.355	73	<0.03	**166**	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Shallow	--	3	0.95	--	0.438	**134.4**	<0.03	23.7	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Shallow	--	<0.6	0.749	--	0.299	**154**	<0.05	16.6	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Shallow	0.5	0.5	1.1	0.038	0.463	**648**	<0.05	30.2	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	0.5	1.003	--	0.295	**400**	<0.05	16.5	--	--	--	--	--	--	--	--	--	--
	6/16/2009	Shallow	--	<0.6	0.56	--	0.21	**155**	<0.02	15.4	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Shallow	--	0.9	0.48	--	0.191	**155**	<0.02	12.6	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Shallow	1.8	2.1	**3.78**	0.196	0.744	61.4	<0.02	**163.2**	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Shallow	--	1.8	**2.44**	--	0.486	58.7	<0.02	**207.9**	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	2.2	2.8	--	0.518	73.7	0.02 J	**120.8**	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Shallow	--	1.4	1.17	--	0.48	122	<0.02	66.8	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	--	1	**12.92**	--	0.617	1.6	<0.02	**155**	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Shallow	--	0.9	**7.87**	--	0.409	4.7	<0.02	**102**	--	--	--	--	--	--	--	--	--	--
CTMW-23	6/18/2002	Shallow	--	2.89	1.73	--	<1	--	<1	<10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	--	--	--
	9/18/2002	Shallow	--	2.8	**3.41**	--	1.29	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	12/19/2002	Shallow	--	**5.17**	**3.55**	--	1.8	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/24/2003	Shallow	**6.62**	**7.28**	**2.52**	1.27	3.01	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	6/25/2003	Shallow	**7.36**	**6.86**	2.24	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	9/17/2003	Shallow	**20.7**	**17.6**	**11.9**	**13.5**	**39.7**	--	<1	42.6	--	--	--	--	--	--	--	--	--	--
	12/16/2003	Shallow	2.48	2.33	**3.89**	<1	<1	--	<1	<10	--	--	--	--	--	--	--	--	--	--
	3/16/2004	Shallow	3.75	**5.12**	**5.3**	<1	1.87	--	**0.249**	<10	--	--	--	--	--	--	--	--	--	--
	6/9/2004	Shallow	**10.3**	**10.8**	**5.24**	2.16	7.51	--	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	9/7/2004	Shallow	--	**14.1**	**6.57**	--	5.59	**182**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	12/9/2004	Shallow	--	3.07	1.19	--	<1	**1200**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	3/31/2005	Shallow	--	2.6	2.1	--	<1	**286**	<0.2	<10	--	--	--	--	--	--	--	--	--	--
	6/20/2005	Shallow	--	7.8	3.1	--	1.56	**2240**	<0.2	2.3	--	--	--	--	--	--	--	--	--	--
	9/29/2005	Shallow	**13.2**	**12.3**	**13.5**	1.17	3.91	45	<0.08	3.56	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Shallow	--	1.9	**4.41**	--	0.155	53	<0.08	4.32	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
	Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
	Screening Level		**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-23	3/22/2006	Shallow	<250	<50	<500	<0.14	0.0073	1.6	<0.13	0.73	<0.13	**1.0**	<0.0081	--	--	--
	6/20/2006	Shallow	<250	<50	<500	<0.14	0.0088	1.4	<0.13	0.58	<0.11	**2.0**	<0.0081	--	--	--
	9/27/2006	Shallow	<8.2	<13	<19	<0.14	0.015	3.1	<0.13	0.14	<0.11	0.60	0.031	--	--	--
	12/7/2006	Shallow	<250	<50	<500	<0.14	<0.0066	1.1	<0.13	0.46	<0.11	**0.79**	<0.0023	--	--	--
	3/28/2007	Shallow	<250	<50	<500	<0.14	<0.0066	0.82	<0.13	0.54	<0.11	0.60	<0.0023	--	--	--
	6/27/2007	Shallow	<250	<50	<500	<0.14	<0.0066	0.78	<0.13	0.60	<0.11	**1.4**	0.014	--	--	--
	9/26/2007	Shallow	<250	<50	<500	<0.14	0.0094	0.91	<0.13	<0.13	<0.11	**0.79**	0.078	--	--	--
	12/13/2007	Shallow	<11	<13	<19	<0.14	<0.0061	0.67	<0.13	0.44 J	<0.11	**0.77**	<0.0035	--	--	--
	3/26/2008	Shallow	<260	<50	<520	<0.14	<0.0061	1.3	<0.13	0.65	<0.11	**0.97**	<0.0035	--	--	--
	6/23/2008	Shallow	<260	<50	<520	<0.045	<0.0061	1.1	<0.042	0.67	<0.42	**1.5**	0.0045	--	--	--
	9/10/2008	Shallow	<250	<50	<500	<0.045	0.019	0.62	<0.042	0.27 J	<0.048	**1.2**	**0.49**	--	--	--
	12/23/2008	Shallow	<270	<50	<5300	0.10	0.017	0.50	<0.042	0.19 J	<1.2	0.37	**0.38**	--	--	--
	3/10/2009	Shallow	<250	<50	<500	<0.045	<0.0095	0.12	<0.042	0.26 J	<0.048	0.35	<0.0084	--	--	--
	6/11/2009	Shallow	<260	<50	<520	<0.038	<0.0095	0.11	<0.050	0.23 J	<0.052	0.28	0.083	--	--	--
	9/1/2009	Shallow	<260	<50	<520	0.090	0.047	0.90	<0.050	0.38 J	0.080	**1.2**	**1.3**	--	--	--
	12/29/2009	Shallow	<250	<50	<500	0.41	0.047	1.1	0.05 J	0.5	<0.56	0.51	**1.3**	--	--	--
	3/11/2010	Shallow	<260	<50	<520	0.050	<0.0095	0.17	<0.050	0.20 J	<0.052	0.18	0.14	--	--	--
	6/9/2010	Shallow	<260	<50	<510	<0.054	<0.0095	<0.14	<0.050	0.19 J	<0.052	0.20	0.057	--	--	--
	9/2/2010	Shallow	<64	<50	<72	0.15	0.011	0.59	<0.050	0.15 J	0.080	0.24	**0.30**	--	--	--
	12/2/2010	Shallow	<260	<50	<39	0.21	0.013	0.51	<0.050	0.19 J	<0.74	0.40	**0.32**	--	--	--
	3/9/2011	Shallow	<270	<50	<5300	0.060	<0.0059	0.14	<0.050	0.20 J	<0.052	0.10	0.055	--	--	--
	6/9/2011	Shallow	<250	<50	<500	<0.054	<0.0059	<0.067	<0.050	0.26 J	<0.052	0.13	0.089	--	--	--
	9/7/2011	Shallow	<270	<50	<5300	0.26	0.027	0.71	<0.050	0.30 J	0.13	0.35	**0.72**	--	--	--
	12/6/2011	Shallow	<260	<50	<520	<0.054	<0.0059	0.090	<0.050	0.26 J	<0.052	0.27	0.050	--	--	--
	6/11/2012	Shallow	<260	<250	<24	<0.062	<0.0059	0.55	<0.050	0.53	<0.054	**0.91**	0.0068	--	--	--
	6/5/2013	Shallow	<250	--	<500	<0.062	<0.0059	0.14	<0.050	0.86	<0.054	**1.2**	<0.0046	--	--	--
	6/3/2014	Shallow	<260	--	<510	<0.062	<0.0090	0.30	<0.050	1.4	<0.054	**1.9**	<0.0046	--	--	--
	6/2/2015	Shallow	<130	--	<260	0.38	0.022	0.67	<0.50	0.34 J	0.21	0.47	**0.64**	--	--	--
CTMW-24	9/29/2005	Shallow	<250	<22	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	12/13/2005	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	3/22/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.12	<0.14	<0.0081	--	--	--
	6/21/2006	Shallow	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	--
	9/26/2006	Shallow	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	--
	12/5/2006	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0076	--	--	--
	3/27/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	0.0041	--	--	--
	6/27/2007	Shallow	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	--
	9/25/2007	Shallow	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	12/10/2007	Shallow	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	--
	3/27/2008	Shallow	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.28	<0.14	<0.0035	--	--	--
	6/23/2008	Shallow	<260	<50	<520	<0.045	<0.0061	<0.045	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	--
	9/8/2008	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.09	<0.061	<0.0035	--	--	--
	12/16/2008	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	--
	3/11/2009	Shallow	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	--
	6/10/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	9/3/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-23	3/22/2006	Shallow	1.7	1.89	**7.02**	0.06	0.44	**130**	<0.08	10.6	--	--	--	--	--	--	--	--	--	--
	6/20/2006	Shallow	--	2.5	**2.87**	--	0.089	**313**	<0.02	4.4	--	--	--	--	--	--	--	--	--	--
	9/27/2006	Shallow	--	**5.94**	**6.12**	--	0.501	**3910**	<0.02	7	--	--	--	--	--	--	--	--	--	--
	12/7/2006	Shallow	--	1.98	**5.59**	--	0.138	16.5	<0.02	9.8	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Shallow	--	1.1	**4.61**	--	0.147	59.3	<0.02	7.6	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Shallow	--	3.77	**12.7**	--	1.38	**725**	**0.04**	4.75	--	--	--	--	--	--	--	--	--	--
	9/26/2007	Shallow	--	3.2	**6.2**	--	0.946	70.1	<0.03	1.6	--	--	--	--	--	--	--	--	--	--
	12/13/2007	Shallow	--	1	2.38	--	<0.122	35	<0.03	5.4	--	--	--	--	--	--	--	--	--	--
	3/26/2008	Shallow	0.97	<1.3	**8.4**	<0.006	0.207	**205**	<0.03	13	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Shallow	--	1.2	**4.67**	--	0.041	**1250**	<0.03	12.4	--	--	--	--	--	--	--	--	--	--
	9/10/2008	Shallow	--	4	**13.868**	--	0.443	**2470**	<0.05	4.9	--	--	--	--	--	--	--	--	--	--
	12/23/2008	Shallow	3.7	4.6	**5.052**	0.05	0.806	**589**	<0.05	2.1	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Shallow	--	1.5	**5.045**	--	0.409	**324**	<0.05	3.9	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Shallow	--	1.8	**5.46**	--	0.178	**288**	<0.02	3.7	--	--	--	--	--	--	--	--	--	--
	9/1/2009	Shallow	--	5	**3.37**	--	0.292	**263**	<0.02	1	--	--	--	--	--	--	--	--	--	--
	12/29/2009	Shallow	3.6	4.4	**3.34**	0.038	0.665	59.9	<0.02	1	--	--	--	--	--	--	--	--	--	--
	3/11/2010	Shallow	2	2.9	**3.22**	0.047	0.623	45.8	<0.02	1.8	--	--	--	--	--	--	--	--	--	--
	6/9/2010	Shallow	--	2.3	**2.53**	--	0.442	38.5	0.02 J	1.6	--	--	--	--	--	--	--	--	--	--
	9/2/2010	Shallow	--	**10**	**7.42**	--	3.878	10	0.02 J	3.7	--	--	--	--	--	--	--	--	--	--
	12/2/2010	Shallow	--	3.9	2.23	--	0.963	14.6	<0.02	1.3	--	--	--	--	--	--	--	--	--	--
	3/9/2011	Shallow	--	0.9	**3.32**	--	0.213	17.6	<0.02	2.4	--	--	--	--	--	--	--	--	--	--
	6/9/2011	Shallow	--	0.8	**2.56**	--	<0.043	15.7	<0.02	1.6	--	--	--	--	--	--	--	--	--	--
	9/7/2011	Shallow	2.8	3.3	**3.33**	<0.116	1.158	44.9	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Shallow	1.9	1.9	**2.73**	0.052	0.175	**118**	<0.02	1.1	--	--	--	--	--	--	--	--	--	--
	6/11/2012	Shallow	--	0.9	**6.9**	--	0.12	19.2	<0.02	5.8	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Shallow	--	0.7	2.16	--	<0.034	**1210**	<0.02	3	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Shallow	--	1.55	**9.42**	--	0.163	**3300**	<0.02	5.14	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Shallow	--	7.8	1.68	--	0.719	**731**	<0.2	0.76	--	--	--	--	--	--	--	--	--	--
CTMW-24	9/29/2005	Shallow	--	**5.06**	1.37	--	0.03	**340**	<0.08	1.59	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Shallow	--	3	0.89	--	0.019	**761**	<0.08	2.32	--	--	--	--	--	--	--	--	--	--
	3/22/2006	Shallow	--	1.65	1.51	--	0.05	**1210**	<0.08	4.76	--	--	--	--	--	--	--	--	--	--
	6/21/2006	Shallow	--	3.2	0.94	--	0.193	**3300**	0.02	2.2	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Shallow	--	3.9	0.5	--	0.025	**731**	<0.02	4.7	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Shallow	--	4.58	1.29	--	<0.065	**6070**	0.02	5.7	--	--	--	--	--	--	--	--	--	--
	3/27/2007	Shallow	--	**6.29**	0.63	--	0.018	**8610**	<0.02	2.7	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Shallow	--	3.6	1.57	--	0.008	**2620**	**0.03**	3.31	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Shallow	--	4	0.5	--	<0.016	**782**	<0.03	1.8	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Shallow	--	3	1.26	--	<0.169	**1950**	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Shallow	--	<5.2	0.29	--	0.034	**4040**	<0.03	1.8	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Shallow	**5.1**	**5.7**	0.64	0.029	0.028	**5630**	<0.03	0.8	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Shallow	--	**5.4**	0.558	--	0.028	**1300**	<0.05	0.6	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Shallow	--	3	0.369	--	0.06	**238**	<0.05	0.4	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Shallow	1.6	<2.8	0.668	0.048	0.096	**125**	<0.05	1.2	--	--	--	--	--	--	--	--	--	--
	6/10/2009	Shallow	--	3.5	0.63	--	0.068	**342**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/3/2009	Shallow	--	4	0.48	--	<0.011	**1490**	<0.02	0.3	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
		Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
		Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-24	12/30/2009	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.23	<0.10	<0.0084	--	--	--
	3/9/2010	Shallow	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	--
	6/8/2010	Shallow	<250	<50	<500	<0.054	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	0.2 J
	9/1/2010	Shallow	<270	<50	<42	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	0.17 J
	12/1/2010	Shallow	<12	<50	<24	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	<0.16
	3/8/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	<0.16
	6/7/2011	Shallow	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	<0.16
	9/8/2011	Shallow	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.033	--	--	--
	12/7/2011	Shallow	<260	<50	<520	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	--
	6/5/2012	Shallow	<260	<250	<520	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	--
	6/4/2013	Shallow	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	<0.16
	6/4/2014	Shallow	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	<0.16
	6/3/2015	Shallow	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	<1.0
	6/9/2016	Shallow	<270	--	<5300	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	<0.40
CTMW-24D	9/29/2005	Deep	<250	<22	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	1.9
	12/13/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	1.2
	3/22/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.16	<0.14	<0.0081	--	--	1.6
	6/21/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	1.3
	9/26/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	1.4
	12/5/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	1.5
	3/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	1.9
	6/27/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	1.6
	9/25/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	1.4
	12/10/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	1.9
	3/27/2008	Deep	<260	<50	<520	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	1.4
	6/23/2008	Deep	<250	<50	<500	<0.045	<0.0061	<0.045	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	1.7
	9/8/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.12	<0.061	<0.0035	--	--	1.6
	12/16/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	2.0
	3/11/2009	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	1.5
	6/10/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	2.0
	9/3/2009	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	2.1
	12/30/2009	Deep	<270	<50	<5300	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.25	<0.10	<0.0084	--	--	1.7
	3/9/2010	Deep	<250	<50	<500	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	1.2
	6/8/2010	Deep	<260	<50	<520	<0.054	<0.0095	<0.067	<0.050	<0.066	0.08	<0.10	<0.0084	--	--	1.9
	9/1/2010	Deep	<72	<50	<95	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	1.9
	12/1/2010	Deep	<28	<50	<69	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	2.0
	3/8/2011	Deep	<270	<50	<540	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	1.9
	6/7/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	2.0
	9/8/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	2.4
	12/7/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	2.5
	6/5/2012	Deep	<260	<250	<520	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	3.5
	6/4/2013	Deep	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	4.0
	6/4/2014	Deep	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	3.2
	6/3/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	4.0
	6/9/2016	Deep	<270	--	<5300	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	4.0

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-24	12/30/2009	Shallow	--	4.7	0.59	--	0.062	**2920**	<0.02	0.9	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Shallow	--	3.4	0.61	--	0.074	**1590**	<0.02	0.8	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Shallow	--	**5**	0.36	--	<0.071	**1990**	0.02 J	0.7	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Shallow	--	4.1	0.53	--	0.035	**5720**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Shallow	--	1.3	0.52	--	<0.033	**336**	<0.02	0.4 J	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Shallow	--	0.6	1.37	--	<0.038	5	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	6/7/2011	Shallow	--	**7.8**	0.56	--	<0.013	**824**	<0.02	1.1	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Shallow	--	**23**	0.43	--	<0.116	**2040**	<0.02	1.5	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Shallow	--	2.6	0.86	--	<0.047	**283**	<0.02	0.9	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Shallow	--	4.1	0.39 J	--	0.034	**924**	<0.02	1.5	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Shallow	--	2.1	2.92	--	<0.014	--	<0.02	1.3	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Shallow	--	4.76	0.34	--	0.056	--	<0.02	2.82	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Shallow	--	4.34	0.25	--	0.065	--	<0.2	3.54	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Shallow	--	**9.1**	0.79	--	<0.163	--	<0.2	14.12	--	--	--	--	--	--	--	--	--	--
CTMW-24D	9/29/2005	Deep	--	**13.6**	1.64	--	0.16	**620**	<0.08	2.55	--	--	--	--	--	--	--	--	--	--
	12/13/2005	Deep	--	**7.9**	0.83	--	0.082	**268**	<0.08	1.78	--	--	--	--	--	--	--	--	--	--
	3/22/2006	Deep	--	**7.38**	0.98	--	0.11	**338**	<0.08	8.97	--	--	--	--	--	--	--	--	--	--
	6/21/2006	Deep	--	2.4	1.07	--	0.112	**349**	**0.03**	1.8	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Deep	--	**7.99**	0.81	--	0.077	**266**	**0.03**	4.7	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Deep	--	4.04	1.39	--	0.173	**346**	**0.03**	2	--	--	--	--	--	--	--	--	--	--
	3/27/2007	Deep	**7.32**	**6.6**	0.98	0.099	0.13	**370**	<0.02	8.6	--	--	--	--	--	--	--	--	--	--
	6/27/2007	Deep	--	**9.59**	0.86	--	0.06	**370**	**0.03**	4.6	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Deep	--	2.8	0.88	--	0.073	**358**	**0.03**	0.93	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Deep	--	3	0.79	--	<0.069	**351**	<0.03	2.7	--	--	--	--	--	--	--	--	--	--
	3/27/2008	Deep	--	<3	0.69	--	0.092	**362**	<0.03	3.5	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Deep	--	<6	0.85	--	0.195	**268.7**	<0.03	2.2	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Deep	--	<1.5	0.658	--	0.084	**311**	<0.05	3.4	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Deep	--	3	0.688	--	0.071	**322**	<0.05	0.6	--	--	--	--	--	--	--	--	--	--
	3/11/2009	Deep	--	<1.7	0.78	--	0.127	**255**	<0.05	8.8	--	--	--	--	--	--	--	--	--	--
	6/10/2009	Deep	--	1.4	0.86	--	0.079	**275**	<0.02	1.9	--	--	--	--	--	--	--	--	--	--
	9/3/2009	Deep	--	2	0.63	--	0.079	**293**	<0.02	0.9	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Deep	--	<2	0.83	--	0.086	**302**	<0.02	0.5	--	--	--	--	--	--	--	--	--	--
	3/9/2010	Deep	--	<2	0.78	--	0.099	**257**	<0.02	1	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Deep	--	<1.5	1.06	--	0.212	**276**	0.02 J	1.2	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Deep	--	1.4	0.8	--	0.089	**301**	<0.02	2.5	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Deep	--	1.3	0.84	--	0.084	**274**	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Deep	--	1.2	0.79	--	0.072	**290**	<0.02	0.7	--	--	--	--	--	--	--	--	--	--
	6/7/2011	Deep	--	1.4	0.97	--	0.092	**285**	<0.02	0.6	--	--	--	--	--	--	--	--	--	--
	9/8/2011	Deep	--	1.4	0.77	--	<0.116	**327**	**0.11 J**	0.7	--	--	--	--	--	--	--	--	--	--
	12/7/2011	Deep	--	4.7	0.83	--	0.104	**316**	<0.02	<1	--	--	--	--	--	--	--	--	--	--
	6/5/2012	Deep	--	1.9	0.59 J	--	0.062	**357**	<0.02	0.5 J	--	--	--	--	--	--	--	--	--	--
	6/4/2013	Deep	--	1.1	0.49	--	0.048	--	**0.18 J**	0.7	--	--	--	--	--	--	--	--	--	--
	6/4/2014	Deep	--	0.92	0.6	--	0.057	--	<0.02	0.54	--	--	--	--	--	--	--	--	--	--
	6/3/2015	Deep	--	0.88	0.46	--	0.044	--	<0.2	0.32 J	--	--	--	--	--	--	--	--	--	--
	6/9/2016	Deep	--	1.2	0.5	--	<0.048	--	<0.2	1.29	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CTMW-25D	9/27/2005	Deep	<250	<22	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	13
	12/14/2005	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	8.6
	3/23/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.12	<0.14	<0.0081	--	--	8.9
	6/20/2006	Deep	<250	<50	<500	<0.14	<0.0047	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0081	--	--	7.8
	9/26/2006	Deep	<8.2	<13	<19	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	11
	12/5/2006	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	12
	3/28/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0023	--	--	7.9
	6/28/2007	Deep	<250	<50	<500	<0.14	<0.0066	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0030	--	--	8.9
	9/25/2007	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	9.2
	12/10/2007	Deep	<11	<13	<19	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.11	<0.14	<0.0035	--	--	8.9
	3/25/2008	Deep	<250	<50	<500	<0.14	<0.0061	<0.12	<0.13	<0.13	<0.32	<0.14	<0.0035	--	--	7.8
	6/23/2008	Deep	<250	<50	<500	<0.045	<0.0061	<0.045	<0.042	<0.077	<0.42	<0.061	<0.0035	--	--	5.3
	9/8/2008	Deep	<250	<50	<500	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.09	<0.061	<0.0035	--	--	6.4
	12/16/2008	Deep	<260	<50	<520	<0.045	<0.0095	<0.045	<0.042	<0.077	<1.2	<0.061	<0.0035	--	--	13
	3/10/2009	Deep	<260	<50	<510	<0.045	<0.0095	<0.045	<0.042	<0.077	<0.048	<0.061	<0.0084	--	--	8.5
	6/11/2009	Deep	<250	<50	<500	<0.040	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	18
	9/2/2009	Deep	<260	<50	<520	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	26
	12/30/2009	Deep	<260	<50	<520	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.23	<0.10	<0.0084	--	--	27
	3/10/2010	Deep	<260	<50	<520	<0.038	<0.0095	<0.067	<0.050	<0.066	<0.052	<0.10	<0.0084	--	--	14
	6/8/2010	Deep	<250	<50	<500	<0.054	<0.0095	<0.067	<0.050	<0.066	0.11	<0.10	<0.0084	--	--	23
	9/1/2010	Deep	<31	<50	<54	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0084	--	--	20
	12/1/2010	Deep	<14	<50	<22	<0.054	<0.0095	<0.067	<0.050	<0.099	<0.74	<0.10	<0.0084	--	--	22
	3/8/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	17
	6/8/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	25
	9/9/2011	Deep	<280	<50	<550	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	28
	12/6/2011	Deep	<270	<50	<5300	<0.054	<0.0059	<0.067	<0.050	<0.099	<0.052	<0.10	<0.0045	--	--	24
	6/8/2012	Deep	<270	<250	<540	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	13
	6/5/2013	Deep	<250	--	<500	<0.062	<0.0059	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	13
	6/3/2014	Deep	<260	--	<510	<0.062	<0.0090	<0.067	<0.050	<0.099	<0.054	<0.10	<0.0046	--	--	17
	6/2/2015	Deep	<130	--	<260	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	17
	6/8/2016	Deep	<270	--	<5300	<0.50	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	--	--	31
PZ-1	1/28/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	<0.990	<5.01	--
PZ-3	1/28/1998	Shallow	--	--	--	5.5	<0.532	<0.532	**33**	<0.532	27	<1.064	<0.532	<0.990	<5.01	--
PZ-7	1/22/2002	Shallow	**3060**	<50	**1050**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
PZ-8	1/22/2002	Shallow	<250	<50	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
PZ-9	1/22/2002	Shallow	**1720**	<50	**554**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
CB-1	5/10/1989	Shallow	--	--	--	--	<1.3	--	<1.0	0.2	--	--	--	--	**11**	--
	5/10/1989	Shallow	--	--	--	--	<1.3	--	<1.0	0.2	--	--	--	--	**14**	--
CB-2	5/9/1989	Shallow	--	--	--	--	1.3	--	<0.8	0.7	--	--	--	--	**38**	--
	5/9/1989	Shallow	--	--	--	--	<0.7	--	<0.8	<0.5	--	--	--	--	**3.0**	--
CB-3	5/8/1989	Shallow	--	--	--	--	<0.7	--	<0.8	**5.7**	--	--	--	--	**15**	--
	5/8/1989	Shallow	--	--	--	--	<0.7	--	<0.8	**10**	--	--	--	--	**28**	--
CB-4	5/3/1989	Shallow	--	--	--	--	6.9	--	<1.0	**4.9**	--	--	--	--	**12**	--
	5/3/1989	Shallow	--	--	--	--	6.1	--	<1.0	**4.1**	--	--	--	--	<1.4	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**7E-06**
CTMW-25D	9/27/2005	Deep	--	**6.69**	**3.14**	--	0.57	**183**	<0.08	3.04	--	--	--	--	--	--	--	--	--	--
	12/14/2005	Deep	--	6	**3.85**	--	0.509	**114**	<0.08	12.3	--	--	--	--	--	--	--	--	--	--
	3/23/2006	Deep	--	4.22	**2.94**	--	0.39	89.6	<0.08	9.05	--	--	--	--	--	--	--	--	--	--
	6/20/2006	Deep	--	1.6	2.21	--	0.295	**100**	<0.02	8.3	--	--	--	--	--	--	--	--	--	--
	9/26/2006	Deep	--	**6.2**	**3.82**	--	0.407	**105**	<0.02	8.7	--	--	--	--	--	--	--	--	--	--
	12/5/2006	Deep	--	**7.31**	**3.94**	--	0.64	**103**	0.02	10.5	--	--	--	--	--	--	--	--	--	--
	3/28/2007	Deep	--	**5.03**	**2.75**	--	0.415	**101**	0.02	2.6	--	--	--	--	--	--	--	--	--	--
	6/28/2007	Deep	--	4.89	**2.93**	--	0.358	**108**	<0.03	3.18	--	--	--	--	--	--	--	--	--	--
	9/25/2007	Deep	--	2.5	**3.5**	--	0.463	**124**	<0.03	4.3	--	--	--	--	--	--	--	--	--	--
	12/10/2007	Deep	--	3	**3.14**	--	<0.449	94.5	<0.03	6.8	--	--	--	--	--	--	--	--	--	--
	3/25/2008	Deep	--	<3	**3.9**	--	0.494	93.5	<0.03	4.9	--	--	--	--	--	--	--	--	--	--
	6/23/2008	Deep	--	<5	**4.49**	--	0.599	91.52	<0.03	2.9	--	--	--	--	--	--	--	--	--	--
	9/8/2008	Deep	--	<1.5	1.816	--	0.212	**235**	<0.1	2.1	--	--	--	--	--	--	--	--	--	--
	12/16/2008	Deep	--	2	2.329	--	0.318	**170**	<0.05	1.5	--	--	--	--	--	--	--	--	--	--
	3/10/2009	Deep	--	1.8	**2.613**	--	0.483	**112**	<0.05	3	--	--	--	--	--	--	--	--	--	--
	6/11/2009	Deep	--	1.9	2.37	--	0.428	**138**	<0.02	5.3	--	--	--	--	--	--	--	--	--	--
	9/2/2009	Deep	--	2	**3.83**	--	0.629	**134**	<0.02	2.5	--	--	--	--	--	--	--	--	--	--
	12/30/2009	Deep	--	<3.2	**5.29**	--	0.911	**112**	<0.02	3.3	--	--	--	--	--	--	--	--	--	--
	3/10/2010	Deep	--	2.8	**4.34**	--	0.826	94.8	<0.02	3.4	--	--	--	--	--	--	--	--	--	--
	6/8/2010	Deep	--	3.5	**6.09**	--	1.045	93.9	0.02 J	3.6	--	--	--	--	--	--	--	--	--	--
	9/1/2010	Deep	--	2	**3.17**	--	0.467	**127**	<0.02	3.1	--	--	--	--	--	--	--	--	--	--
	12/1/2010	Deep	--	3.4	**3.71**	--	0.517	**117**	<0.02	2	--	--	--	--	--	--	--	--	--	--
	3/8/2011	Deep	--	3.2	**4.04**	--	0.795	71.3	<0.02	2.5	--	--	--	--	--	--	--	--	--	--
	6/8/2011	Deep	--	1.8	2.3	--	0.359	37.9	<0.02	1.5	--	--	--	--	--	--	--	--	--	--
	9/9/2011	Deep	--	2.4	**3.5**	--	<0.43	**121**	<0.02	2.4	--	--	--	--	--	--	--	--	--	--
	12/6/2011	Deep	--	2.5	**2.49**	--	0.387	**110**	<0.02	1.7	--	--	--	--	--	--	--	--	--	--
	6/8/2012	Deep	--	2.6	**4.93**	--	0.706	**108**	<0.02	4.5	--	--	--	--	--	--	--	--	--	--
	6/5/2013	Deep	--	1.7	2.36	--	0.413	--	<0.02	1.8	--	--	--	--	--	--	--	--	--	--
	6/3/2014	Deep	--	1.81	**3.93**	--	0.426	--	<0.02	1.62	--	--	--	--	--	--	--	--	--	--
	6/2/2015	Deep	--	1.44	**4.08**	--	0.368	--	<0.2	1.14	--	--	--	--	--	--	--	--	--	--
	6/8/2016	Deep	--	1.8	**4.26**	--	0.494	--	<0.2	2.31	--	--	--	--	--	--	--	--	--	--
PZ-1	1/28/1998	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ-3	1/28/1998	Shallow	--	0.28	1.7	--	**18**	--	--	16	<0.249	<0.249	<0.249	5.62	<0.249	2.44	2.34			10.4
PZ-7	1/22/2002	Shallow	--	2.97	1.57	--	<1	**674**	<1	<10	--	--	--	--	--	--	--	--	--	--
PZ-8	1/22/2002	Shallow	--	**5.13**	**8.35**	--	2.65	**232**	<1	28.3	--	--	--	--	--	--	--	--	--	--
PZ-9	1/22/2002	Shallow	--	**8.76**	2.32	--	1.86	**4590**	<1	<10	--	--	--	--	--	--	--	--	--	--
CB-1	5/10/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/10/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-2	5/9/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/9/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-3	5/8/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/8/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-4	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs		
Location	**Date**	**Shallow/ Deep**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**bis-2-ethylhexyl phthalate (DEHP)**	**1,4-dioxane**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Level			**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
CB-5	5/2/1989	Shallow	--	--	--	--	<1.3	--	1.0	<0.6	--	--	--	--	**6.8**	--
	5/2/1989	Shallow	--	--	--	--	<1.3	--	0.9	<0.6	--	--	--	--	**3.7**	--
CB-6	5/3/1989	Shallow	--	--	--	--	<1.3	--	2.1	<0.6	--	--	--	--	**40**	--
	5/3/1989	Shallow	--	--	--	--	<1.3	--	2.2	<0.6	--	--	--	--	**57**	--
CB-7	5/11/1989	Shallow	--	--	--	--	<1.3	--	10	<0.6	--	--	--	--	<1.0	--
	5/11/1989	Shallow	--	--	--	--	<1.3	--	10	<0.6	--	--	--	--	<1.0	--
CB-8	5/11/1989	Shallow	--	--	--	--	<1.3	--	**51**	<0.6	--	--	--	--	**220**	--
	5/11/1989	Shallow	--	--	--	--	<1.3	--	**54**	<0.6	--	--	--	--	**180**	--
CB-9	5/3/1989	Shallow	--	--	--	--	<1.3	--	**36**	<0.6	--	--	--	--	**150**	--
	5/3/1989	Shallow	--	--	--	--	<1.3	--	**38**	<0.6	--	--	--	--	**470**	--

* TPH run as total TPH by EPA 1664
Notes:
ND = not detected, reporting limit not available
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report

TABLE 18
SUMMARY GROUNDWATER DATA - STERICYCLE MONITORING WELLS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			Metals								PCBs									
Location	Date	Shallow/ Deep	Arsenic D	Arsenic T	Copper	Lead D	Lead T	Manganese	Mercury	Zinc	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	PCBs
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Screening Level			5	5	2.4	8.1	8.1	100	0.025	81	--	--	--	--	--	--	--	--	--	7E-06
CB-5	5/2/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-6	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-7	5/11/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-8	5/11/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CB-9	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/3/1989	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--

* TPH run as total TPH by EPA 1664
Notes:
ND = not detected, reporting limit not available
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of
Screening levels shown are from 2005 Stericycle RI Rep

TABLE 19
SUMMARY GROUNDWATER DATA - STERICYCLE PROPERTY TEMPORARY BORINGS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				TPHs			VOCs								SVOCs		
Location	**Date**	**Depth**	**Depth**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**benzo(a)pyrene**	**DEHP**	**1,4-dioxane**
			Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
			Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
A-1	1/17/2001	Shallow	5.50	**1210**	<50.0	**753**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
AA-1	1/17/2001	Shallow	9.00	**1860**	122	**746**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
AA-2	1/25/2001	Shallow	8.00	**624**	10.6	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
D-2	1/25/2001	Shallow	10.00	**504**	9.1	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
F-2	1/25/2001	Shallow	7.50	**2540**	--	**5470**	--	--	--	--	--	--	--	--	--	--	--
G-2	1/21/2002	Shallow	10.00	308	<50.0	<500	--	--	--	--	--	--	--	--	--	--	--
H-2	1/21/2002	Shallow	10.00	340	<50.0	<500	--	--	--	--	--	--	--	--	--	--	--
GP-1	10/12/1999	Shallow	--	<210	<300	--	--	--	--	--	--	--	--	--	--	--	--
GP-10	10/14/1999	Shallow	--	**3000**	<300	--	--	--	--	--	--	--	--	--	--	--	--
GP-12	10/13/1999	Shallow	--	<200	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-16	10/14/1999	Shallow	--	**640**	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-18	10/13/1999	Shallow	--	<200	<300	--	--	--	--	--	--	--	--	--	--	--	--
GP-23	10/14/1999	Shallow	--	**1900**	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-24	10/13/1999	Shallow	--	**2700**	**900**	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-25	10/13/1999	Shallow	--	<200	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-30	10/14/1999	Shallow	--	400	<300	--	--	--	--	--	--	--	--	--	--	--	--
GP-37	10/15/1999	Shallow	--	220	<300	--	<5	<5.0 J	<5	<5.0 J	<5.0 J	<5	<5	<10	--	--	--
GP-38	10/15/1999	Shallow	--	<71	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-39	10/15/1999	Shallow	--	130	<300	--	--	--	--	--	--	--	--	--	--	--	--
GP-6	10/12/1999	Shallow	--	290	<300	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
GP-7	10/12/1999	Shallow	--	<190	**2400**	--	<5	<5.0	<5	<5.0	<5.0	<5	<5	<10	--	--	--
SRI-1	1/12/2001	Shallow	23.00	**12700**	691	**2420**	**3.81**	<1.00	**39**	<1.00	**212**	10.2	**11.8**	<1.00	--	--	--
SRI-1D	1/15/2001	Deep	34.50	**3370**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-10	1/9/2001	Shallow	9.50	**833**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-10D	1/10/2001	Deep	20.00	**880**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-11	1/11/2001	Shallow	12.00	**825**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-12	1/10/2001	Shallow	13.50	**1400**	<50.0	**582**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-12D	1/10/2001	Deep	29.00	**2110**	<50.0	**644**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-13	1/11/2001	Shallow	14.00	**7840**	<50.0	**1480**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-14	1/11/2001	Shallow	13.00	**3440**	<50.0	**917**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-14D	1/12/2001	Deep	31.00	**1790**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-15	1/16/2001	Shallow	23.00	**18800**	219	**4470**	**1.86**	<1.00	4.36	6.83	<1.00	4.74	<1.00	<1.00	--	--	--
SRI-2	1/16/2001	Shallow	20.00	**16200**	**6850**	**4400**	**74.9**	<1.00	<1.00	**255**	<1.00	3.37	<1.00	<1.00	--	--	--
SRI-2D	1/16/2001	Deep	35.00	**12100**	<50.0	**5470**	<1.00	<1.00	<1.00	.588 J	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-20	1/8/2002	Shallow	14.50	**9100**	<50.0	**2410**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND

TABLE 19
SUMMARY GROUNDWATER DATA - STERICYCLE PROPERTY TEMPORARY BORINGS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Depth**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
			Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
			Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	--	--	--	--	--	--	--	--	--	0.000007
A-1	1/17/2001	Shallow	5.50	--	4.28	**20.4**	--	**17.6**	**342**	<1	**165**	--	--	--	--	--	--	--	--	--	--
AA-1	1/17/2001	Shallow	9.00	--	**9.13**	**10.1**	--	**26.5**	**672**	<1.00	38	--	--	--	--	--	--	--	--	--	--
AA-2	1/25/2001	Shallow	8.00	--	1.21	**20.7**	--	**64.7**	**253**	<1.00	**204**	--	--	--	--	--	--	--	--	--	--
D-2	1/25/2001	Shallow	10.00	--	**8.13**	**71.8**	--	**584**	**772**	<1.00	**370**	--	--	--	--	--	--	--	--	--	--
F-2	1/25/2001	Shallow	7.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G-2	1/21/2002	Shallow	10.00	--	1.43	**49**	--	**85.1**	**415**	<1.00	**1190**	--	--	--	--	--	--	--	--	--	--
H-2	1/21/2002	Shallow	10.00	--	**5.27**	**86.9**	--	**535**	**3120**	<1.00	**922**	--	--	--	--	--	--	--	--	--	--
GP-1	10/12/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-10	10/14/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-12	10/13/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-16	10/14/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-18	10/13/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-23	10/14/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-24	10/13/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-25	10/13/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-30	10/14/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-37	10/15/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-38	10/15/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-39	10/15/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-6	10/12/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GP-7	10/12/1999	Shallow	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SRI-1	1/12/2001	Shallow	23.00	--	**5.44**	**5.66**	--	**12.7**	45.1	<1.00	41.6	--	--	--	--	--	--	--	--	--	--
SRI-1D	1/15/2001	Deep	34.50	--	1.63	**3.53**	--	1.59	**2280**	<1.00	49.9	--	--	--	--	--	--	--	--	--	--
SRI-10	1/9/2001	Shallow	9.50	--	**10.3**	**30.3**	--	**17.8**	**4090**	<1.00	<61.4	--	--	--	--	--	--	--	--	--	--
SRI-10D	1/10/2001	Deep	20.00	--	**5.18**	**25.7**	--	3.56	**136**	<1.00	27	--	--	--	--	--	--	--	--	--	--
SRI-11	1/11/2001	Shallow	12.00	--	**30.8**	**124**	--	**35.1**	**1410**	<1.00	**157**	--	--	--	--	--	--	--	--	--	--
SRI-12	1/10/2001	Shallow	13.50	--	<1.00	**2.47**	--	<1	<10.0	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
SRI-12D	1/10/2001	Deep	29.00	--	2.46	**9.68**	--	1.48	93.6	<1.00	20.8	--	--	--	--	--	--	--	--	--	--
SRI-13	1/11/2001	Shallow	14.00	--	**14.6**	**87**	--	**24.4**	**886**	<1.00	**130**	--	--	--	--	--	--	--	--	--	--
SRI-14	1/11/2001	Shallow	13.00	--	**5.52**	**49.3**	--	**87.2**	**1060**	<1.00	**228**	--	--	--	--	--	--	--	--	--	--
SRI-14D	1/12/2001	Deep	31.00	--	**9.94**	**70.4**	--	**42.6**	**646**	<1.00	**196**	--	--	--	--	--	--	--	--	--	--
SRI-15	1/16/2001	Shallow	23.00	--	**16.8**	**32.4**	--	**343**	**722**	<1.00	**393**	--	--	--	--	--	--	--	--	--	--
SRI-2	1/16/2001	Shallow	20.00	--	**15.3**	**65.9**	--	**329**	**1650**	<1.00	**624**	--	--	--	--	--	--	--	--	--	--
SRI-2D	1/16/2001	Deep	35.00	--	**21.4**	**165**	--	**223**	**2560**	<1.00	**344**	--	--	--	--	--	--	--	--	--	--
SRI-20	1/8/2002	Shallow	14.50	--	4.78	**36.9**	--	**96**	**2850**	<1.00	**393**	--	--	--	--	--	--	--	--	--	--

TABLE 19
SUMMARY GROUNDWATER DATA - STERICYCLE PROPERTY TEMPORARY BORINGS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				TPHs			VOCs								SVOCs		
Location	**Date**	**Depth**	**Depth**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**benzo(a)pyrene**	**DEHP**	**1,4-dioxane**
			Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
			Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**
SRI-20D	1/10/2002	Deep	33.00	**722**	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-21	1/14/2002	Shallow	11.50	**8500**	<50.0	**2740**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-22	1/25/2002	Shallow	9.00	**5640**	255	**982**	**10.9**	<1.00	<4.00	5.18	<1.00	<4.00	<4.00	<4.00	--	--	ND
SRI-22D	1/15/2002	Deep	28.00	485	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-23	1/8/2002	Shallow	14.50	**789**	90	<500	0.646	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-23D	1/10/2002	Deep	28.00	311	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-24	1/9/2002	Shallow	10.50	**2490**	<50.0	**1910**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-25	1/9/2002	Shallow	10.50	**3120**	<50.0	**1080**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-25D	1/11/2002	Deep	25.00	**1440**	<50.0	<500	0.612	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND
SRI-3	1/15/2001	Shallow	12.00	**926**	<50.0	<500	<1.00	<1.00	2.35	<1.00	<1.00	<1.00	**1.2**	**1.34**	--	--	--
SRI-3D	1/17/2001	Deep	28.00	**1100**	<50.0	<500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-4	1/15/2001	Shallow	10.00	**4070**	<50.0	**1060**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-4D	1/17/2001	Deep	26.00	**2980**	<50.0	**1240**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-5	1/19/2001	Shallow	7.00	<3310	241	<6620	**3.29**	<1.00	<1.00	4.63	<1.00	13.2	<1.00	<1.00	--	--	--
SRI-5D	1/19/2001	Deep	20.00	**6170**	<50.0	**818**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-6D	1/19/2001	Deep	22.00	**4150**	<50.0	**727**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-7	1/8/2001	Shallow	14.50	**4010**	<50.0	**6280**	**4.44**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-7D	1/9/2001	Deep	23.00	**3740**	<50.0	**1000**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-8D	1/19/2001	Deep	20.00	**4840**	<50.0	**902**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--
SRI-9	1/8/2001	Shallow	11.00	<665	<50.0	<1330	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	--

Notes:
Indicates Deep Groundwater Zone, no highlighting indicates Shallow Zone
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report
ND = not detected, reporting limit not available

TABLE 19
SUMMARY GROUNDWATER DATA - STERICYCLE PROPERTY TEMPORARY BORINGS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				Metals								PCBs									
Location	**Date**	**Shallow/ Deep**	**Depth**	**Arsenic D**	**Arsenic T**	**Copper**	**Lead D**	**Lead T**	**Manganese**	**Mercury**	**Zinc**	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**	**PCBs**
			Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
			Screening Level	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**	--	--	--	--	--	--	--	--	--	0.000007
SRI-20D	1/10/2002	Deep	33.00	--	4.84	**34.4**	--	**8.39**	**414**	<1.00	49.7	--	--	--	--	--	--	--	--	--	--
SRI-21	1/14/2002	Shallow	11.50	--	**29.1**	**136**	--	**631**	**9670**	<1.00	**1730**	--	--	--	--	--	--	--	--	--	--
SRI-22	1/25/2002	Shallow	9.00	--	**22.1**	**168**	--	**382**	**3970**	<1.00	**799**	--	--	--	--	--	--	--	--	--	--
SRI-22D	1/15/2002	Deep	28.00	--	**9.52**	**59.6**	--	**30.4**	**1650**	<1.00	**126**	--	--	--	--	--	--	--	--	--	--
SRI-23	1/8/2002	Shallow	14.50	--	**10.4**	**43**	--	**25.7**	**2460**	<1.00	**144**	--	--	--	--	--	--	--	--	--	--
SRI-23D	1/10/2002	Deep	28.00	--	**16.5**	**51**	--	**9.74**	**629**	<1.00	63.7	--	--	--	--	--	--	--	--	--	--
SRI-24	1/9/2002	Shallow	10.50	--	**9.11**	**39.5**	--	**166**	**6590**	**2.04**	67.4	--	--	--	--	--	--	--	--	--	--
SRI-25	1/9/2002	Shallow	10.50	--	**7.58**	**60.7**	--	**75.5**	**3920**	<1.00	45.5	--	--	--	--	--	--	--	--	--	--
SRI-25D	1/11/2002	Deep	25.00	--	1.25	**51.8**	--	**14.3**	**1460**	<1.00	68.6	--	--	--	--	--	--	--	--	--	--
SRI-3	1/15/2001	Shallow	12.00	--	2.16	**3.13**	--	3.44	16.8	<1.00	<10.0	--	--	--	--	--	--	--	--	--	--
SRI-3D	1/17/2001	Deep	28.00	--	**46.7**	**209**	--	**213**	**6000**	<1.04	**310**	--	--	--	--	--	--	--	--	--	--
SRI-4	1/15/2001	Shallow	10.00	--	**32.2**	**171**	--	**2550**	**910**	**1.51**	**197**	--	--	--	--	--	--	--	--	--	--
SRI-4D	1/17/2001	Deep	26.00	--	**10.2**	**63.3**	--	**67.1**	**2080**	<1.00	**117**	--	--	--	--	--	--	--	--	--	--
SRI-5	1/19/2001	Shallow	7.00	--	**108**	**1160**	--	**11200**	**1210**	**5.81**	**16700**	--	--	--	--	--	--	--	--	--	--
SRI-5D	1/19/2001	Deep	20.00	--	**5.39**	**7.14**	--	4.78	**280**	<1.00	16.1	--	--	--	--	--	--	--	--	--	--
SRI-6D	1/19/2001	Deep	22.00	--	**15.5**	**106**	--	**31.7**	**937**	<1.00	**142**	--	--	--	--	--	--	--	--	--	--
SRI-7	1/8/2001	Shallow	14.50	--	**51.1**	**2940**	--	**8680**	**2950**	**9.88**	**24200**	--	--	--	--	--	--	--	--	--	--
SRI-7D	1/9/2001	Deep	23.00	--	4.62	**48.7**	--	**21.2**	**187**	<1.00	**86.9**	--	--	--	--	--	--	--	--	--	--
SRI-8D	1/19/2001	Deep	20.00	--	**14.5**	**73.6**	--	**20.9**	**421**	<1.00	**89.2**	--	--	--	--	--	--	--	--	--	--
SRI-9	1/8/2001	Shallow	11.00	--	**11.5**	**84.6**	--	**29**	**1230**	<1.00	**194**	--	--	--	--	--	--	--	--	--	--

Notes:
Indicates Deep Groundwater Zone, no highlighting indicates Shallow Zone
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report
ND = not detected, reporting limit not available

TABLE 20
SUMMARY GROUNDWATER DATA - 1205 ALEXANDER AVENUE AND 1300 TAYLOR WAY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				TPHs			VOCs								SVOCs			Metals							
Location	**Date**	**Shallow/ Deep**	**Depth**	**Diesel**	**Gas**	**Motor Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**DEHP**	**1,4-dioxane**	**Arsenic T**	**Arsenic D**	**Copper**	**Lead T**	**Lead D**	**Manganese**	**Mercury**	**Zinc**
			Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
			Screening Level	**500**	**800**	**500**	**1.6**	**4000**	**16**	**31**	**2.9**	**130**	**0.7**	**0.18**	**0.05**	**0.046**	**160**	**5**	**5**	**2.4**	**8.1**	**8.1**	**100**	**0.025**	**81**
SB-1A	4/1/1991	Shallow	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5**	--	--	6	--	--	<5	39
	9/21/2000	Shallow		<250	<100	--	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	3.87	--	**2.41**	<1	--	**1460**	<1	12.4
SB-2A	4/1/1991	Shallow	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**48**	--	--	5	--	--	<5	62
	9/21/2000	Shallow		340	<100	--	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	**27.6**	--	**22.1**	<1	--	**8140**	<1	59.7
SB-3A	4/1/1991	Shallow	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6**	--	--	<5	--	--	<5	63
	9/21/2000	Shallow		**640**	<100	--	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	2.14	--	**6.58**	<1	--	20	<1	<10
SB-3 (deeper)	4/1/1991	Deep	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5	--	--	<5	--	--	<5	38
SRI-16	1/18/2002	Shallow	12.00	<250	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**6.72**	--	**48 J**	7.77	--	**1790**	<1.00	48.7
SRI-16D	1/18/2002	Deep	27.00	479	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	2.68	--	**5.44 J**	1.37	--	**155**	<1.00	11.2
SRI-17	1/16/2002	Shallow	9.00	<250	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**5.66**	--	**29**	**10.4**	--	**1920**	<1.00	53.8
SRI-17D	1/16/2002	Deep	24.00	**608**	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**11**	--	**49.3**	**10.3**	--	**1350**	<1.00	**86.1**
SRI-18	1/16/2002	Shallow	8.00	479	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	2.9	--	**12**	2.16	--	**953**	<1.00	19.2
SRI-18D	1/17/2002	Deep	21.00	**2340**	<50.0	**795**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**9.6**	--	**61.5 J**	**12.5**	--	**1180**	<1.00	**97.2**
SRI-19	1/17/2002	Shallow	36.00	**2030**	<50.0	**610**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**7.01**	--	**33.6 J**	7.83	--	**1970**	<1.00	51.2
SRI-19D	1/17/2002	Deep	34.50	<250	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**7.06**	--	**13.6 J**	2.03	--	94.4	<1.00	22.4
SRI-32	2/3/2002	Shallow	9.00	419	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**9.47**	--	**38.6**	**17.4**	--	**2480**	<1.00	56.4
SRI-32D	2/3/2002	Deep	26.00	436	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	12	--	**41.8**	8.08	--	**430**	<1.00	44.6
SRI-33	2/2/2002	Shallow	9.00	473	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	4.44	--	**18**	3.68	--	**2280**	<1.00	44
SRI-33D	2/2/2002	Deep	23.00	**2090**	<50.0	**1200**	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**6.61**	--	**47.7**	8.06	--	**198**	<1.01	38.9
SRI-34	2/2/2002	Shallow	9.00	<281	<50.0	<50062	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**6.31**	--	**20.4**	**10.9**	--	**776**	<1.02	26.4
SRI-34D	2/2/2002	Deep	24.00	**678**	<50.0	<500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	ND	**10.1**	--	**56**	**13**	--	**683**	<1.03	53.4

TABLE 20
SUMMARY GROUNDWATER DATA - 1205 ALEXANDER AVENUE AND 1300 TAYLOR WAY
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

				PCBs									
Location	Date	Shallow/ Deep	Depth	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
			Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			Screening Level	--	--	--	--	--	--	--	--	--	0.000007
SB-1A	4/1/1991	Shallow	5	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow		--	--	--	--	--	--	--	--	--	--
SB-2A	4/1/1991	Shallow	6	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow		--	--	--	--	--	--	--	--	--	--
SB-3A	4/1/1991	Shallow	6	--	--	--	--	--	--	--	--	--	--
	9/21/2000	Shallow		--	--	--	--	--	--	--	--	--	--
SB-3 (deeper)	4/1/1991	Deep	21	--	--	--	--	--	--	--	--	--	--
SRI-16	1/18/2002	Shallow	12.00	--	--	--	--	--	--	--	--	--	--
SRI-16D	1/18/2002	Deep	27.00	--	--	--	--	--	--	--	--	--	--
SRI-17	1/16/2002	Shallow	9.00	--	--	--	--	--	--	--	--	--	--
SRI-17D	1/16/2002	Deep	24.00	--	--	--	--	--	--	--	--	--	--
SRI-18	1/16/2002	Shallow	8.00	--	--	--	--	--	--	--	--	--	--
SRI-18D	1/17/2002	Deep	21.00	--	--	--	--	--	--	--	--	--	--
SRI-19	1/17/2002	Shallow	36.00	--	--	--	--	--	--	--	--	--	--
SRI-19D	1/17/2002	Deep	34.50	--	--	--	--	--	--	--	--	--	--
SRI-32	2/3/2002	Shallow	9.00	--	--	--	--	--	--	--	--	--	--
SRI-32D	2/3/2002	Deep	26.00	--	--	--	--	--	--	--	--	--	--
SRI-33	2/2/2002	Shallow	9.00	--	--	--	--	--	--	--	--	--	--
SRI-33D	2/2/2002	Deep	23.00	--	--	--	--	--	--	--	--	--	--
SRI-34	2/2/2002	Shallow	9.00	--	--	--	--	--	--	--	--	--	--
SRI-34D	2/2/2002	Deep	24.00	--	--	--	--	--	--	--	--	--	--

TABLE 21
SUMMARY GROUNDWATER DATA - PSE GAS LINE ALIGNMENT
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

			TPHs			VOCs								SVOCs			Metals						PCBs
Location	**Date**	**Depth**	**Diesel**	**Gas**	**Motor/ Lube Oil**	**Benzene**	**1,1-DCE**	**cis-1,2-DCE**	**Ethyl-benzene**	**PCE**	**Toluene**	**TCE**	**VC**	**Benzo(a) pyrene**	**DEHP**	**1,4-dioxane**	**Arsenic**	**Lead**	**Manganese**	**Copper**	**Mercury**	**Zinc**	**Total PCBs**
Units			**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Screening Levels			**500**	**800**	**500**	**1.6**	4000	**10600**	31	2.9	**130**	**0.7**	**0.18**	0.05	0.046	160	**5**	**8.1**	100	2.4	0.025	81	0.000007
EH-A-W	9/21/2015	Shallow	<270	<100	<430	<1	--	--	--	--	<1	--	--	<0.011	--	--	**41**	**31**	--	--	<0.5	--	--
EH-B-W	9/21/2015	Shallow	<270	<100	<430	<1	--	--	--	--	<1	--	--	--	--	--	**250**	**41**	--	--	<0.5	--	--
EH-B-W-DUP	9/21/2015	Shallow	--	<100	--	<1	--	--	--	--	<1	--	--	--	--	--	**240**	**41**	--	--	<0.5	--	--
EH-C-W	9/21/2015	Shallow	<260	<100	<420	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	--	--	--	**11**	3.6	--	--	<0.5	--	--
EH-C-W-DUP	9/21/2015	Shallow	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	--	--	--	--	--	--	--	--	--	--
EH-D-W	9/18/2015	Shallow	**870**	<100	**980**	<1	--	--	<1	--	<1	--	--	<0.01	--	--	**30**	1.5	--	--	<0.5	--	--

Notes:
Indicates Deep Groundwater Zone, no highlighting indicates Shallow Zone
DCE = dichloroethene
TCE = trichloroethene
VC = vinyl chloride
-- = No data available
"<" = not detected above reporting limit shown to right of "<"
Screening levels shown are from 2005 Stericycle RI Report

TABLE 22
SUMMARY SOIL VAPOR DATA
Data Gaps Work Plan
TWAAFA Site Tacoma, WA

Analyte	MTCA Method B Level	MTCA Method C Level	Stericycle Property Samples - 04/21/2016						1514 Taylor Way Property Samples - 12/27/16							
			SV-2	SV-3	SV-4	SV-4 DUP	SV-5	AA-1 (Ambient Air)	MS1	MS2	MS3	MS4	MS5	MS8	MS9	MS10
Volatile Organic Compounds (µg/m3)																
1,2-Dibromoethane (EDB)	0.139	1.39	< 30	< 29	< 30	< 30	< 31	< 1.2	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	3.21	32.1	< 16	< 15	< 16	< 16	< 16	< 0.63	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	107	233	57	< 18	27	32	50	< 0.77	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	NE	NE	22	< 18	21	24	< 20	< 0.77	--	--	--	--	--	--	--	--
1,4-Dioxane	17	167	< 57	< 54	< 57	< 56	< 58	< 0.56	--	--	--	--	--	--	--	--
2-Propanol	NE	NE	< 39	< 37	< 39	< 38	< 40	2.1	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane	NE	NE	1,000	7,800 J	3,900	4,400	1,500	< 3.6	--	--	--	--	--	--	--	--
4-Ethyltoluene	NE	NE	58	< 18	64	78	57	< 0.77	--	--	--	--	--	--	--	--
Acetone	NE	NE	< 94	110 J	< 94	< 92	< 96	9.2	--	--	--	--	--	--	--	--
Benzene	11	107	310	130 J	280	310	300	< 0.50	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	NE	NE	< 16	< 15	< 16	17	< 16	< 0.62	--	--	--	--	--	--	--	--
Cumene	6,095	13,333	64	26 J	48	54	120	< 0.77	--	--	--	--	--	--	--	--
Cyclohexane	NE	NE	250	790 J	470	530	450	< 0.54	--	--	--	--	--	--	--	--
Ethanol	NE	NE	< 30	< 28	< 30	< 29	< 30	5.9	--	--	--	--	--	--	--	--
Ethyl Benzene	15,238	33,333	19	67 J	280	330	91	< 0.68	--	--	--	--	--	--	--	--
Freon 12	46	3,333	< 20	< 18	< 20	< 19	< 20	2.5	--	--	--	--	--	--	--	--
Freon 11	320	23,333	< 22	< 21	< 22	< 22	< 23	1.4	--	--	--	--	--	--	--	--
Heptane	NE	NE	1,100	1600 J	1,400	1,600	1,800	< 0.64	--	--	--	--	--	--	--	--
Hexane	10,667	23,333	2,000	3800 J	4,200	4,800	2,000	< 0.55	--	--	--	--	--	--	--	--
Methylene Chloride	250	83,333	< 140	< 130	< 140	< 130	< 140	2.6	--	--	--	--	--	--	--	--
m,p-Xylene	1,524	3,333	120	26 J	190	220	130	< 0.68	--	--	--	--	--	--	--	--
o-Xylene	1,524	3,333	180	24 J	110	140	84	< 0.68	--	--	--	--	--	--	--	--
Propylbenzene	NE	NE	34	< 18	22	27	39	< 0.77	--	--	--	--	--	--	--	--
Styrene	15,238	33,333	< 17	< 16	24	25	< 17	< 0.66	--	--	--	--	--	--	--	--
Toluene	76,190	166,667	< 15	59 J	190	210	480	2.2	--	--	--	--	--	--	--	--
Trichloroethene	12	67	< 21	< 20	24	< 21	< 22	< 0.84	--	--	--	--	--	--	--	--
Vinyl chloride	9.33	93.3	< 10	< 9.6	< 10	< 9.9	< 10	< 0.40	--	--	--	--	--	--	--	--
Gases (percent)																
Methane	--	--	75%	67%	--	--	--	--	0%	0%	1.40%	0%	0%	0%	0%	0%

Notes:

-- = No data available

<# = Not detected above the reporting limit shown to the right of "<"

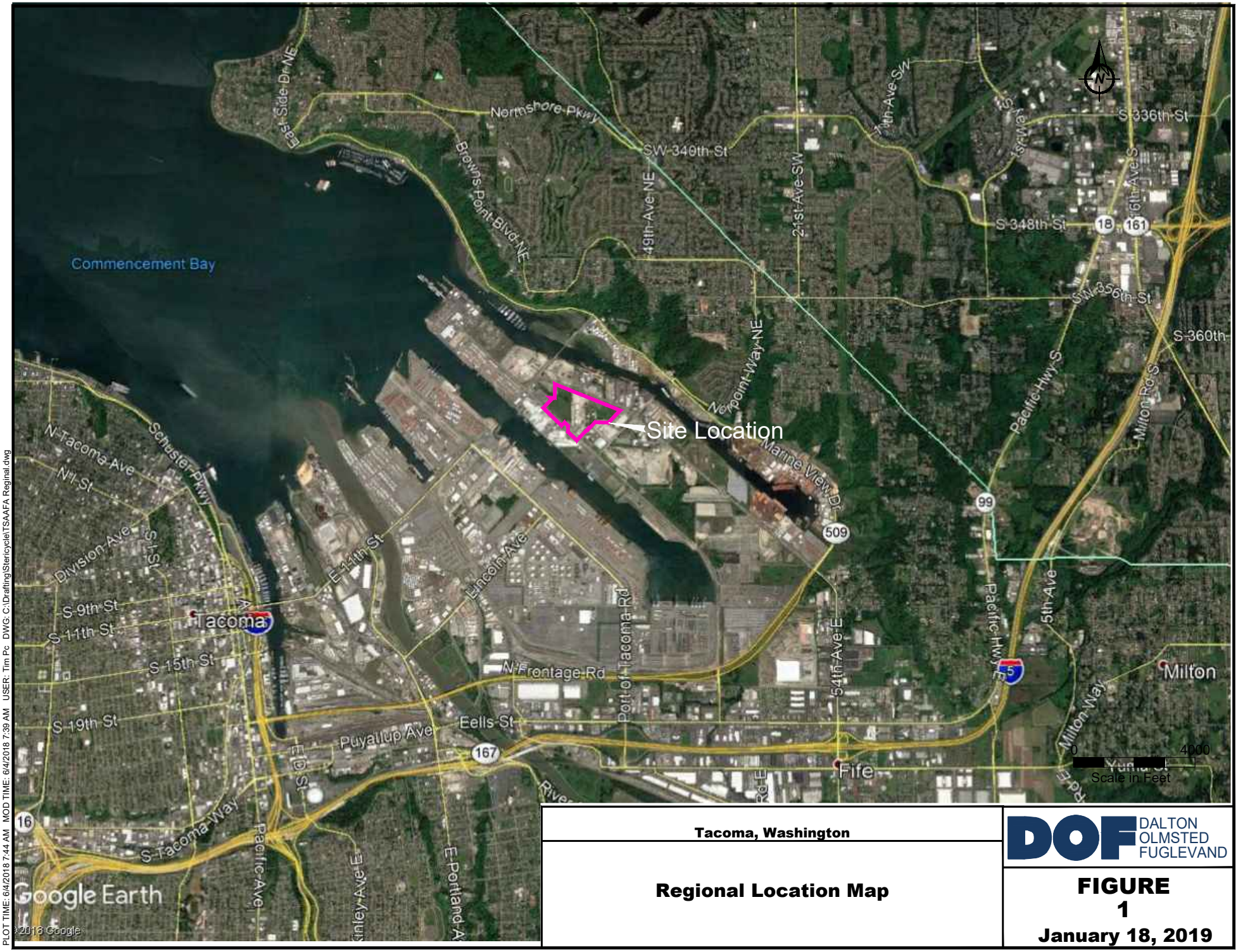
TABLE 23
DATA GAPS INVESTIGATION TASKS
Taylor Way and Alexander Avenue Fill Area Site
Tacoma, Washington

Data Gaps Task	Notes	Location	Soil Samples						Groundwater Samples						Task Completed?
			VOCs	TPH-D	TPH-G	SVOCs	PCBs	Metals	VOCs	TPH-D	TPH-G	SVOCs	PCBs	Metals	
Mapping of aboveground structures	Map and memorandum	Sitewide	--	--	--	--	--	--	--	--	--	--	--	--	No
Well Condition Evaluation and survey update	Memorandum (including repair/replace/redevelop recommendations)	Sitewide	--	--	--	--	--	--	--	--	--	--	--	--	No
Soil Vapor Intrusion Status and Recommendations	Memorandum (including sampling plan)	Sitewide	--	--	--	--	--	--	--	--	--	--	--	--	Yes
Shallow soil and groundwater sampling[1]	1991 Reported ballast fill, Western Port of Tacoma property	TWA-SB1	X	X	X	X	X	X	X	X	X	X	X	X	Yes
	1981 Reported leachate observed, Western Port of Tacoma property	TWA-SB2	X	X	X	X	X	X	X	X	X	X	X	X	Yes
	1991 Reported demolition debris, Western Port of Tacoma property	TWA-SB3	X	X	X	X	X	X	X	X	X	X	X	X	Yes
	1991 Reported debris-empty drums & paint cans, Western Port of Tacoma property	TWA-SB4	X	X	X	X	X	X	X	X	X	X	X	X	Yes
	Former SEA-14 soil sample location, Parcel A, Stericycle property	TWA-SB5	X	X	X	X	X	X	--	--	--	--	--	--	No
Discrete depth deep soil and groundwater sampling[2]	Stericycle property, north end	TWA-4	X[7]	--	--	--	--	--	X	X	X	X	X	X	No
	Western Port of Tacoma property, replacing SB-4	TWA-5	X[7]	--	--	--	--	--	X	X	X	X	X	X	Yes
	Western Port of Tacoma property, replacing SB-1	TWA-6	X[7]	--	--	--	--	--	X	X	X	X	X	X	Yes
	Stericycle property, south end, near CTMW-14	TWA-7	X[7]	--	--	--	--	--	X	X	X	X	X	X	No
	Stericycle property, south end of Parcel A, near CTMW-20	TWA-8	X[7]	--	--	--	X	--	X	X	X	X	X	X	No
	CleanCare property, near CCW-2C	TWA-9	X[7]	--	--	--	X	--	X	X	X	X	X	X	No
	1514 Taylor Way property, sound end	TWA-10	X[7]	--	--	--	--	--	X	X	X	X	X	X	No
Well Abandonment[3]	Western Port of Tacoma property	SB-1, SB-3, SB-4	--	--	--	--	--	--	--	--	--	--	--	--	Yes
Well Rehabilitation[4]		TBD	--	--	--	--	--	--	--	--	--	--	--	--	No
Shallow well installation	1514 Taylor Way property	TWA-1	--	--	--	--	--	--	--	--	--	--	--	--	No
		TWA-2	--	--	--	--	--	--	--	--	--	--	--	--	No
		TWA-3	--	--	--	--	--	--	--	--	--	--	--	--	No
	Stericycle property	CTMW-23R	--	--	--	--	--	--	--	--	--	--	--	--	No
Deep Aquifer well installation[5]	Characterization of deeper deep aquifer	TWA-4	--	--	--	--	--	--	--	--	--	--	--	--	No
	Replacement well	TWA-5	--	--	--	--	--	--	--	--	--	--	--	--	Yes
	Replacement well	TWA-6	--	--	--	--	--	--	--	--	--	--	--	--	Yes
	Characterization of deeper deep aquifer	TWA-7	--	--	--	--	--	--	--	--	--	--	--	--	No
	Characterization of deeper deep aquifer	TWA-8	--	--	--	--	--	--	--	--	--	--	--	--	No
	Possible deeper deep aquifer characterization below CCW-2C	TWA-9	--	--	--	--	--	--	--	--	--	--	--	--	No
	Deep aquifer characterization	TWA-10	--	--	--	--	--	--	--	--	--	--	--	--	No
Groundwater sampling and elevation measurement and mapping	Quarterly groundwater data analysis reports to be produced after each event.	Sitewide	--	--	--	--	--	--	see Groundwater Monitoring Plan						No

Notes:

1. At each soil sample location, one sample will be collected from approximately 1-2 feet bgs, and one sample will be collected above the apparent water table.
   Additional soil samples will be collected in the following circumstances: one of the waste fills materials is encountered, there are field indications of volatile contaminants or sheens
   Shallow groundwater samples will be collected at the water table.
2. Depth discrete samples will be collected from 3 to 4 different intervals below the silt unit.
   Anticipated depths are approxiately 20, 30, 40, and 50 with the intent of sampling transmissive zones of this interbedded aquifer.
   Conductor cased sampling methods will be used to seal the upper fill from the deep aquifer.
3. Additional wells may be recommended for abandonment after the well condition evaluation task is completed.
4. Locations to be determined as part of the well condition evaluation task.
5. Well screen depths will be based on results of discrete depth sampling evaluation.
6. Metals include: arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc, manganese, selenium
7. To be collected from fine-grained units encountered below the silt unit.

Figures



PLOT TIME: 6/4/2018 7:44 AM MOD TIME: 6/4/2018 7:39 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TSAAFA Reginal.dwg

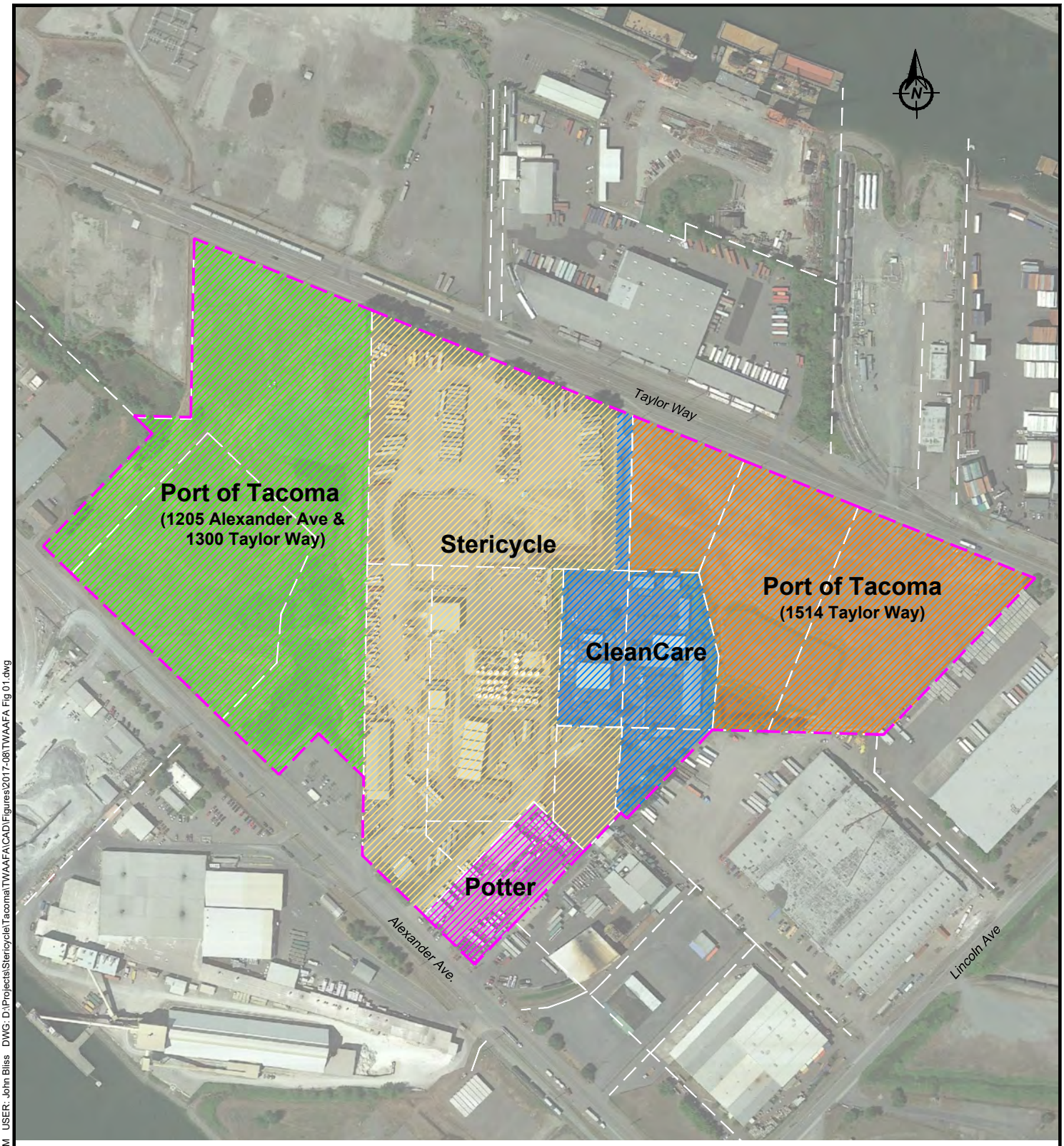
Tacoma, Washington

Regional Location Map

DALTON OLMSTED FUGLEVAND

FIGURE 1

January 18, 2019



Legend

TWAAFA Project Boundary

Parcel Boundary

0 350

Scale in Feet

TWAAFA Site
Tacoma, Washington

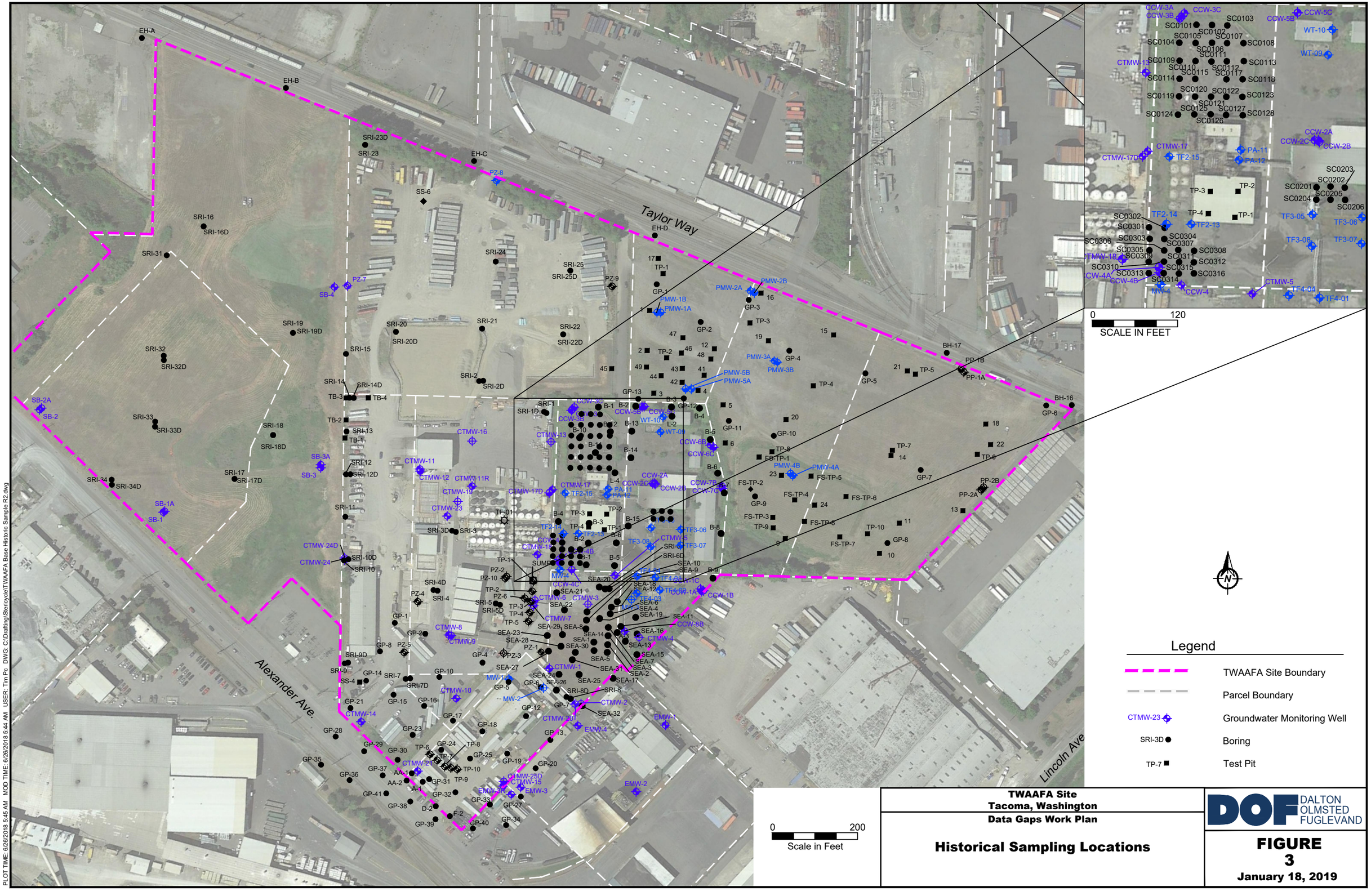
Data Gaps Work Plan

TWAAFA Site Location Map

DALTON OLMSTED FUGLEVAND

FIGURE 2

January 18, 2019



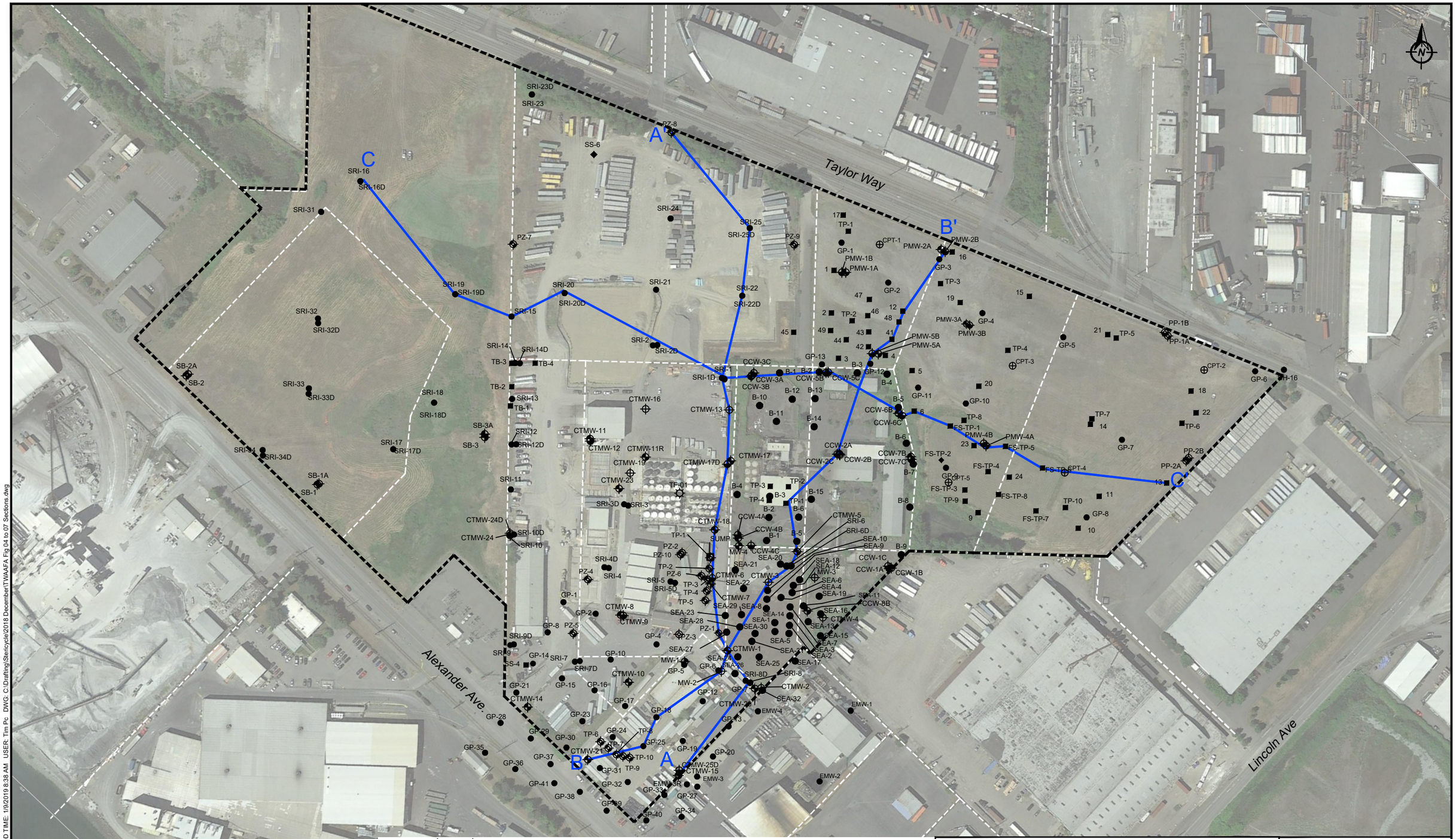
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Historical Sampling Locations

DALTON OLMSTED FUGLEVAND

FIGURE 3
January 18, 2019

PLOT TIME: 6/26/2018 5:45 AM MOD TIME: 6/26/2018 5:44 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Base Historic Sample R2.dwg



Legend

- Deep Aquifer Monitoring Well (CTMW-9)
- Deep Aquifer Piezometer (PP-1B)
- Test Pit (TP-9)
- Boring (SEA-16)
- TWAAFA Project Boundary
- Parcel Boundary

0 200
Scale in Feet

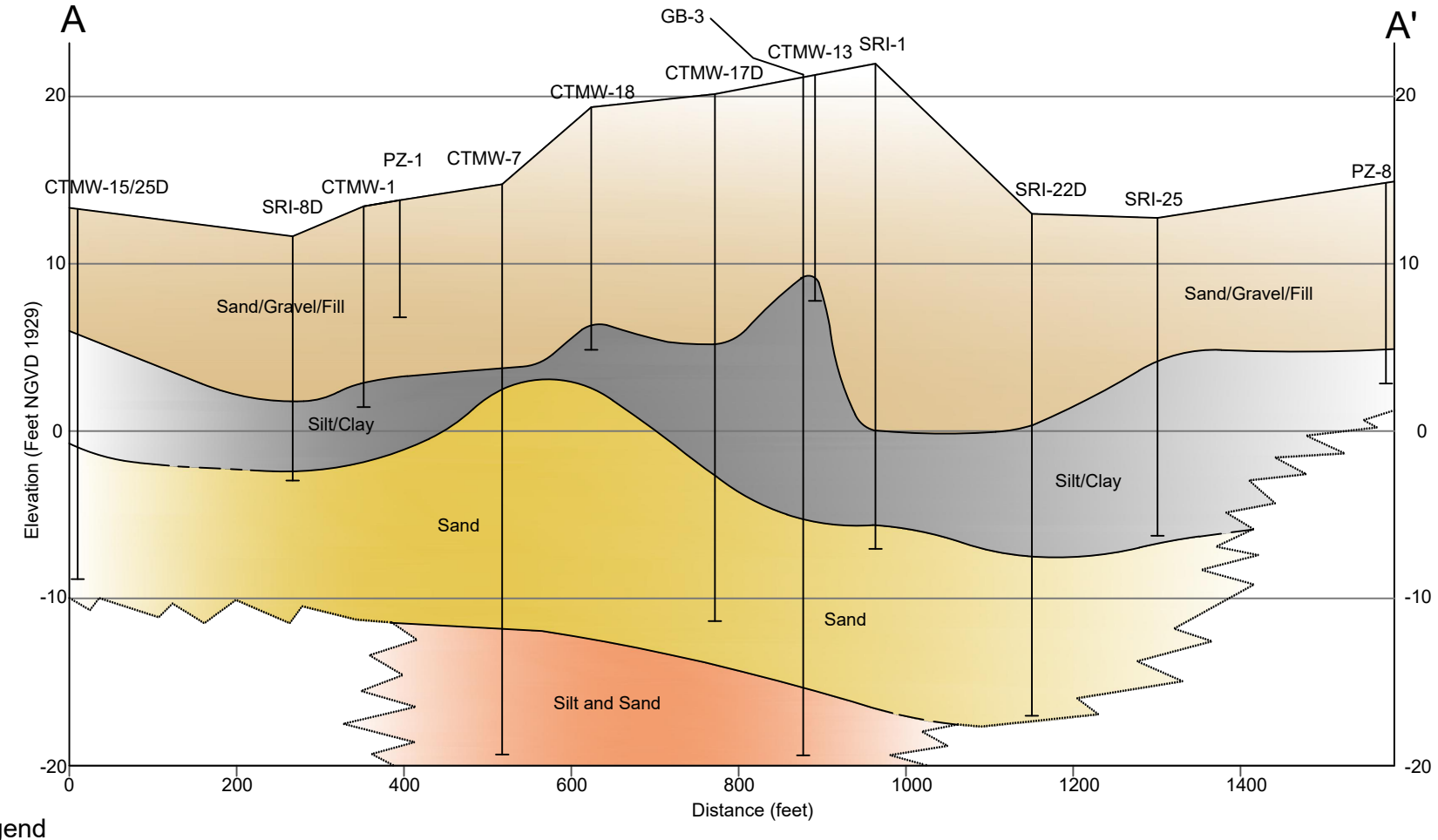
TWAAFA Site
Tacoma, Washington
Date Gaps Work Plan

Cross Section Locations

DOF DALTON OLMSTED FUGLEVAND

FIGURE 4
January 18, 2019

PLOT TIME: 1/9/2019 8:38 AM MOD TIME: 1/9/2019 8:38 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 04 to 07 Sections.dwg



Legend

MW-2	Existing Monitoring Well
TP-3	Test Pit
GB-3	Geotechnical Boring
	Estimated Lithologic Contact (Dashed where Inferred)

0 200 Scale in Feet

10 0

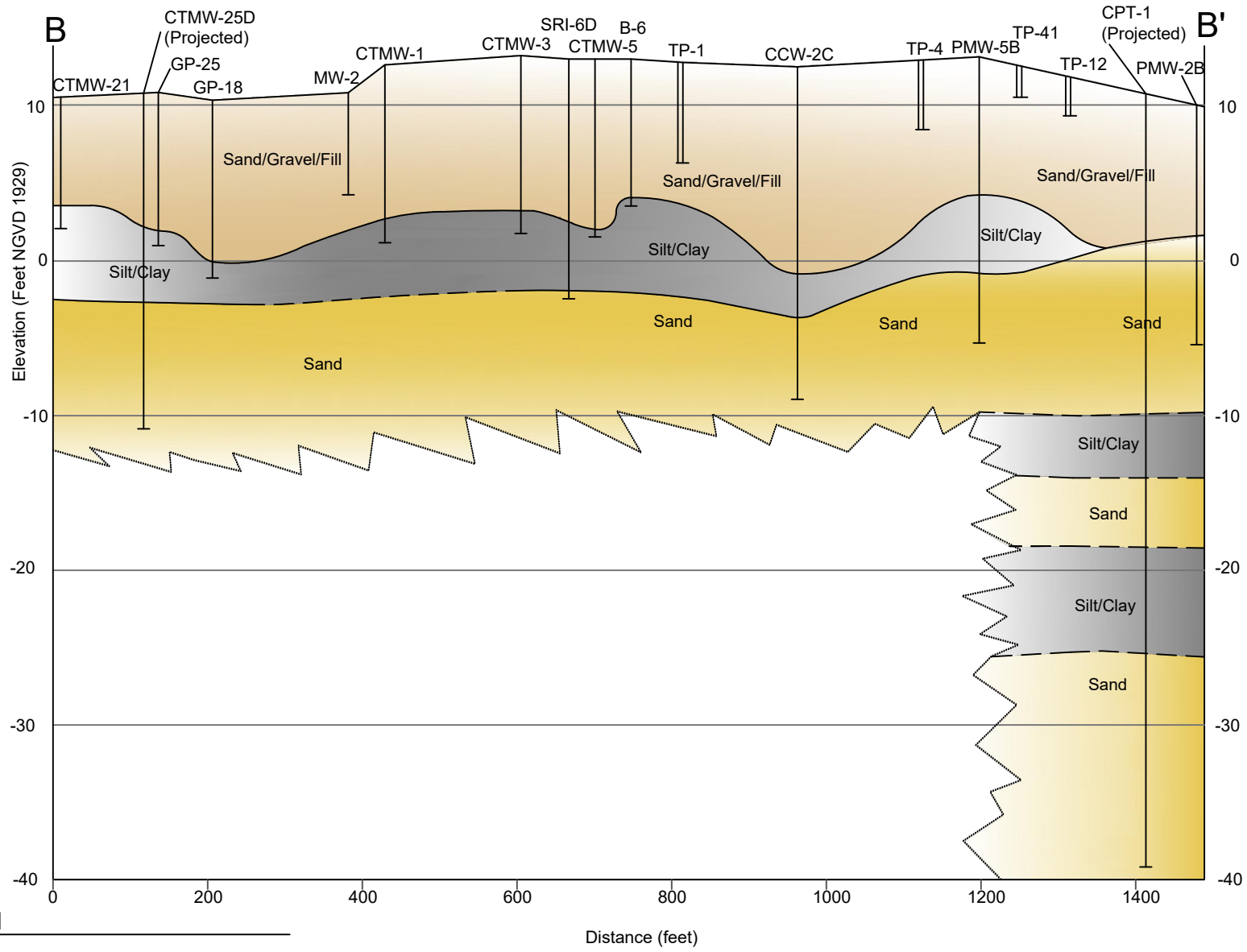
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Cross Section A-A'

DOF DALTON OLMSTED FUGLEVAND

FIGURE 5

January 18, 2019



Legend

MW-2	Existing Monitoring Well
TP-3	Test Pit
	Estimated Lithologic Contact (Dashed where Inferred)

0 200
Scale in Feet
10 0

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Cross Section B-B'

DOF DALTON OLMSTED FUGLEVAND

FIGURE 6

January 18, 2019

C

C'

SRI-16D
SRI-19D
SRI-15
SRI-20D
SRI-2D
SRI-1D
CCW-3C
CCW-5C
CPT-3 (Projected)
TP-6
CCW-6C
FS-TP-7
PMW-4B
FS-TP-5
CPT-4
FS-TP-6
TP-13
BH-16

Sand/Gravel/Fill
Silt/Clay
Sand
Silt Sand/Sand

Elevation (Feet NGVD 1929)

20
10
0
-10
-20
-30
-40
-50
-60

0
200
400
600
800
1000
1200
1400
1600
1800
2000

Distance (feet)

Legend

MW-2 — Existing Monitoring Well

TP-3 — Test Pit

Estimated Lithologic Contact (Dashed where Inferred)

0 200
Scale in Feet

10
0

TWAAFA Site
Tacoma, Washington
Data Gpas Work Plan

Cross Section C-C'

DALTON OLMSTED FUGLEVAND

FIGURE 7

January 18, 2019

PLOT TIME: 1/16/2019 11:00 PM MOD TIME: 1/16/2019 10:59 PM USER: Lee Barras DWG: D:\Projects\TWAAFA\CAD\Figures\2019-01\TWAAFA Fig 04 to 07 Sections.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

0 150
Scale in Feet

Legend

- Approximate Area With Evidence Of Lime Waste Impacted With PCE or TCE
- Approximate Area With Evidence For Lime Waste All Types
- TWAAFA Site

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

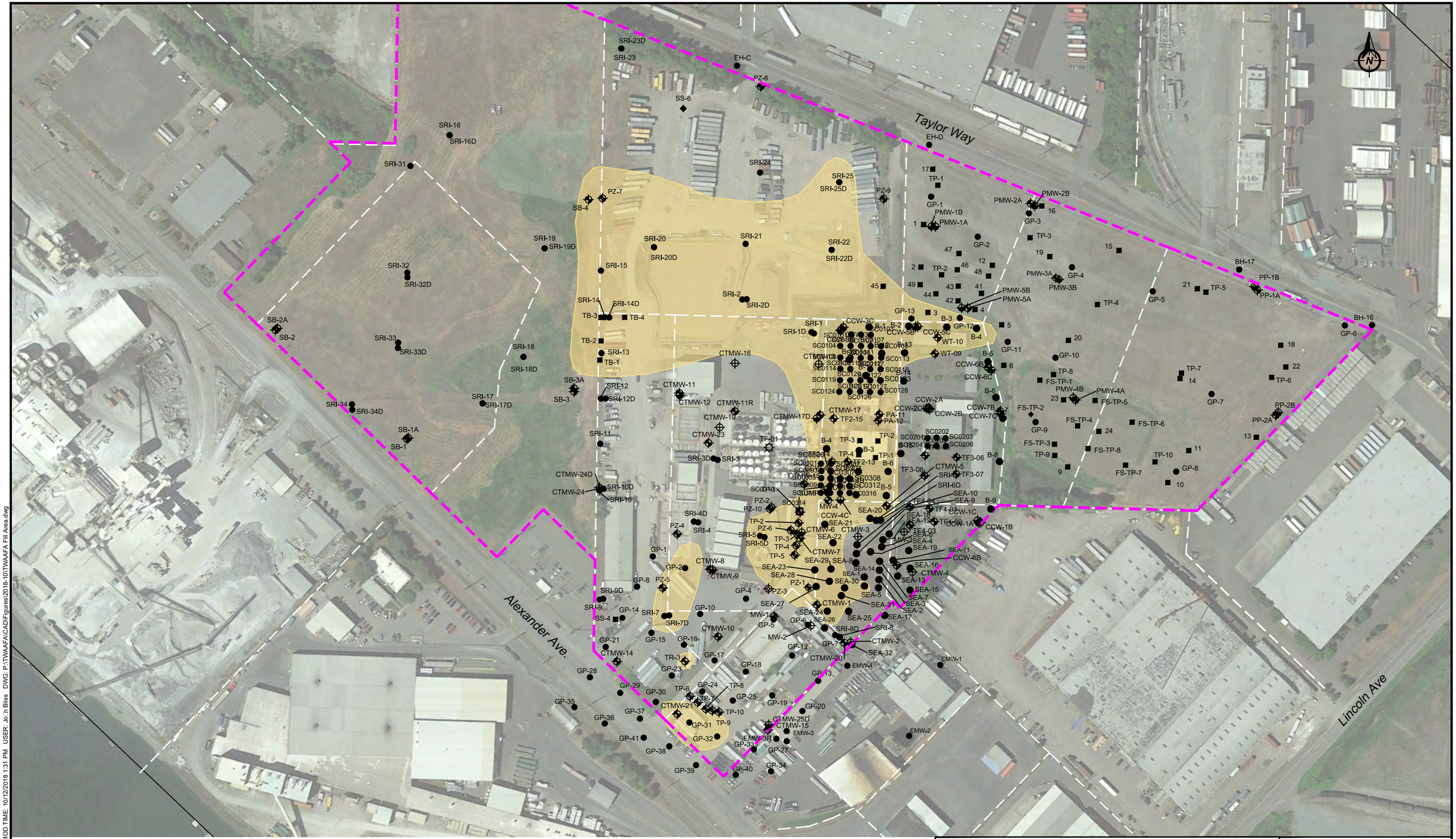
Historical Fill Areas Lime Waste

DALTON OLMSTED FUGLEVAND

FIGURE 8

October 11, 2018

PLOT TIME: 10/16/2018 3:54 PM MOD TIME: 10/12/2018 1:31 PM USER: Jo□n Bliss DWG: P:\TWAAFA\CAD\Figures\2018-10\TWAAFA Fill Area.dwg



0 150
Scale in Feet

Legend

- Approximate Area With Evidence for Auto Fluff Fill
- TWAAFA Site

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

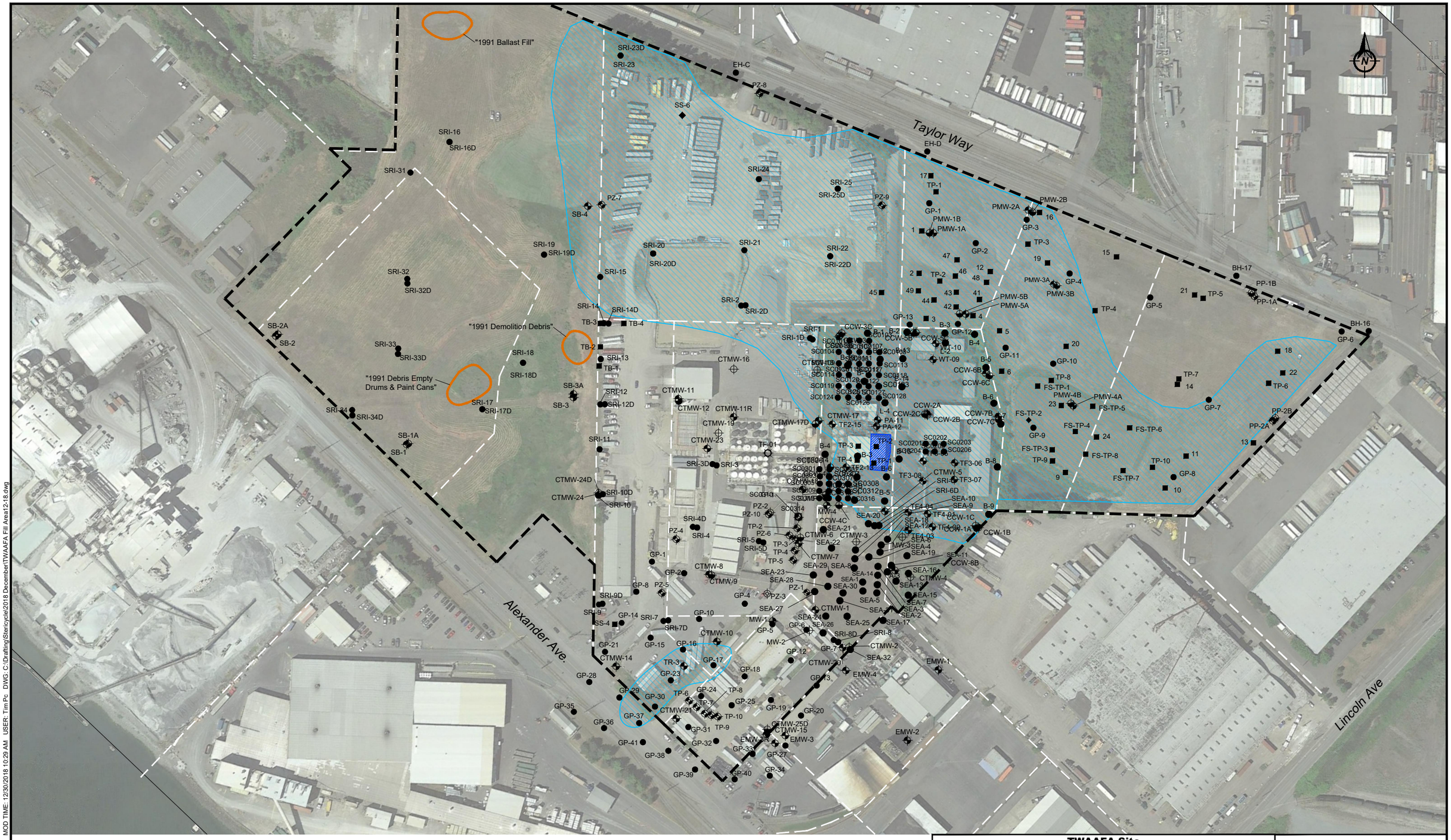
Historical Fill Areas Auto Fluff

DALTON OLMSTED FUGLEVAND

FIGURE 9

October 12, 2018

PLOT TIME: 10/16/2018 3:54 PM MOD TIME: 10/12/2018 1:31 PM USER: Jo□n Bliss DWG: P:\TWAAFA\CAD\Figures\2018-10\TWAAFA Fill Area.dwg



TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

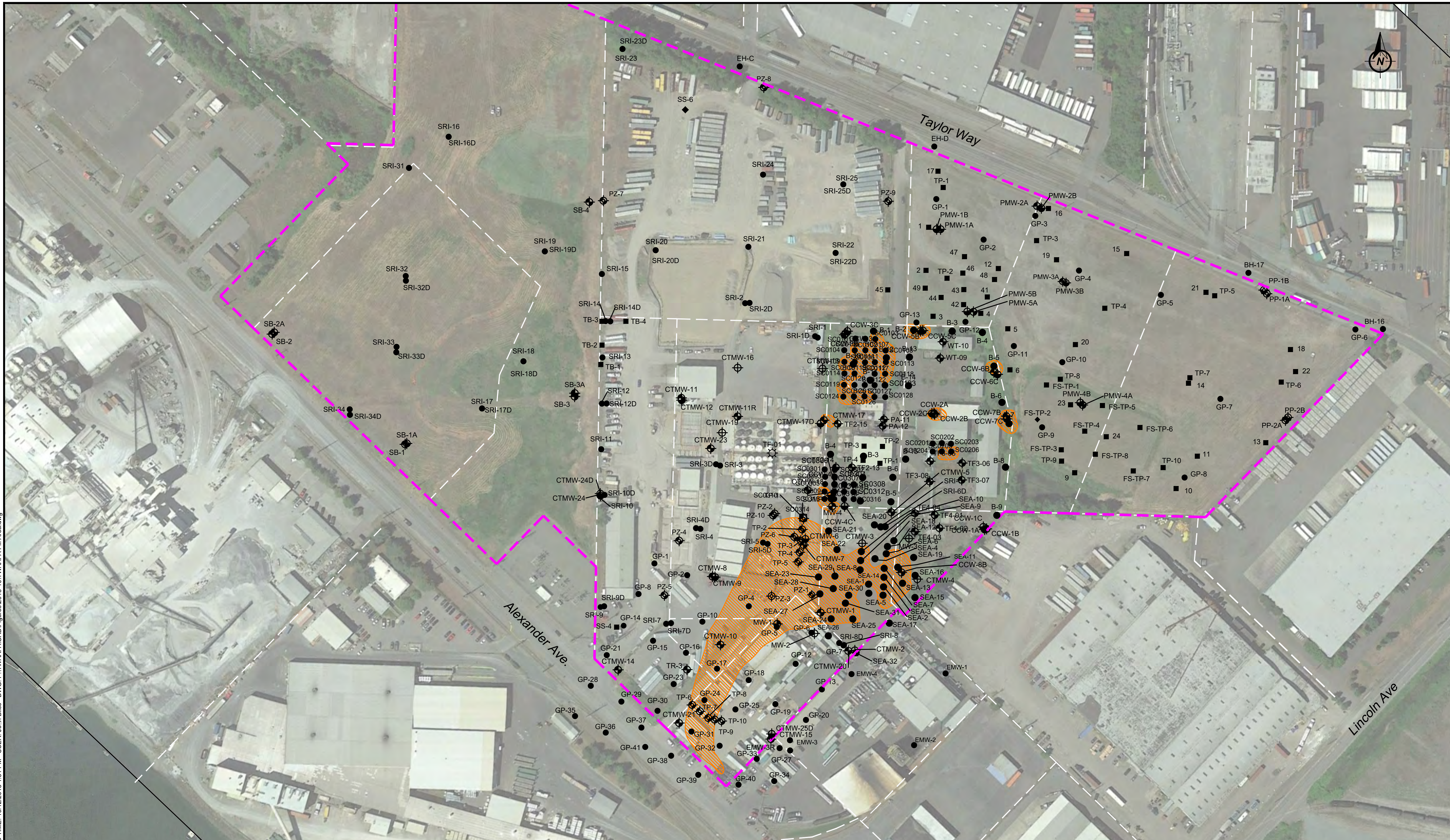
Historic Fill Areas Wood Waste and Debris

DALTON OLMSTED FUGLEVAND

FIGURE 10

December 30, 2018

PLOT TIME: 12/30/2018 10:31 AM MOD TIME: 12/30/2018 10:29 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fill Area12-18.dwg



PLOT TIME: 10/16/2018 3:55 PM MOD TIME: 10/12/2018 1:31 PM USER: Jo□n Bliss DWG: P:\TWAAFA\CAD\Figures\2018-10\TWAAFA Fill Area.dwg

0 150
Scale in Feet

Legend

Approximate LNAPL Extent

TWAAFA Site

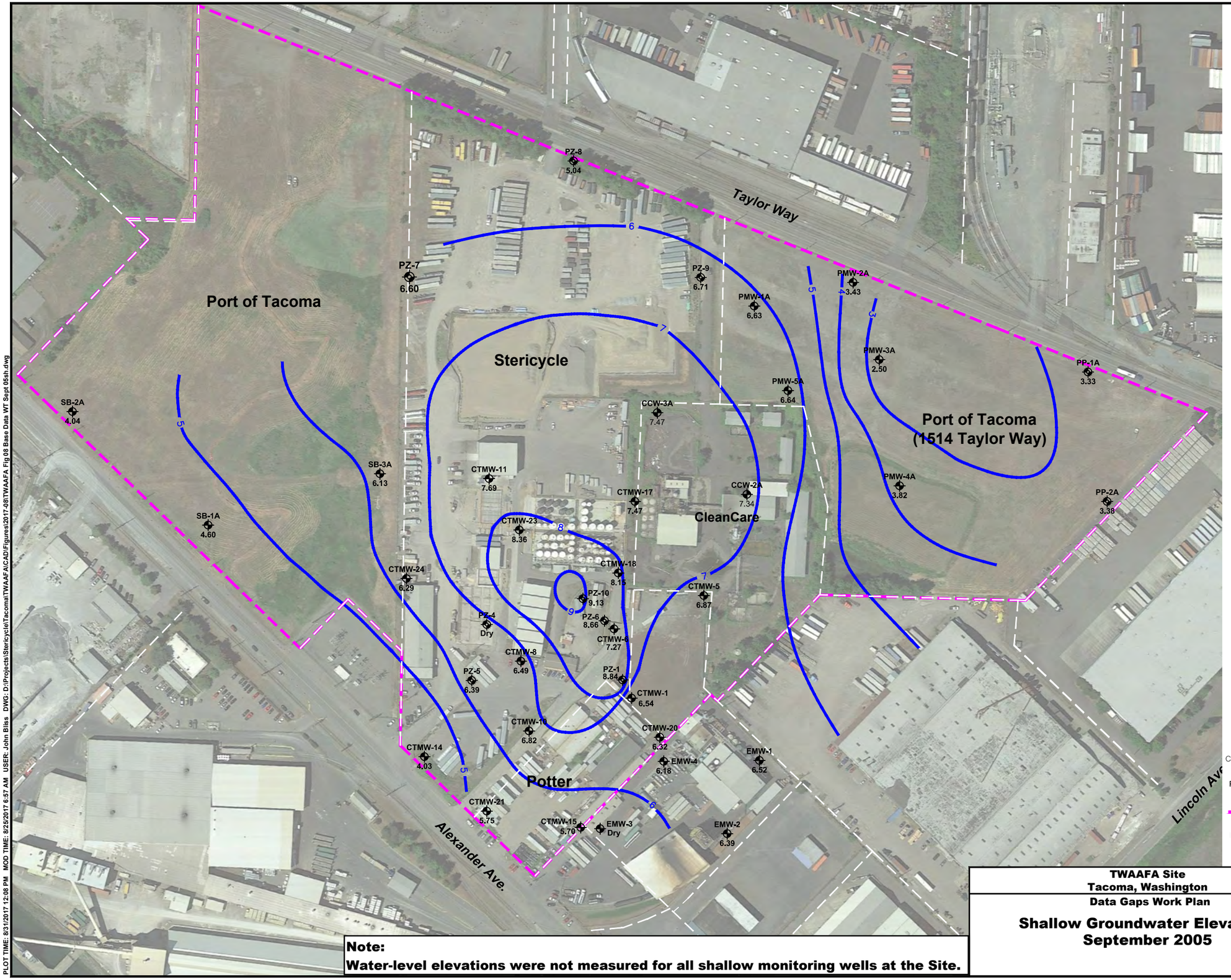
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Historic Presence or Indication of LNAPL

DOF DALTON OLMSTED FUGLEVAND

FIGURE 11

Octo□er 12, 2018



Note:
Water-level elevations were not measured for all shallow monitoring wells at the Site.

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

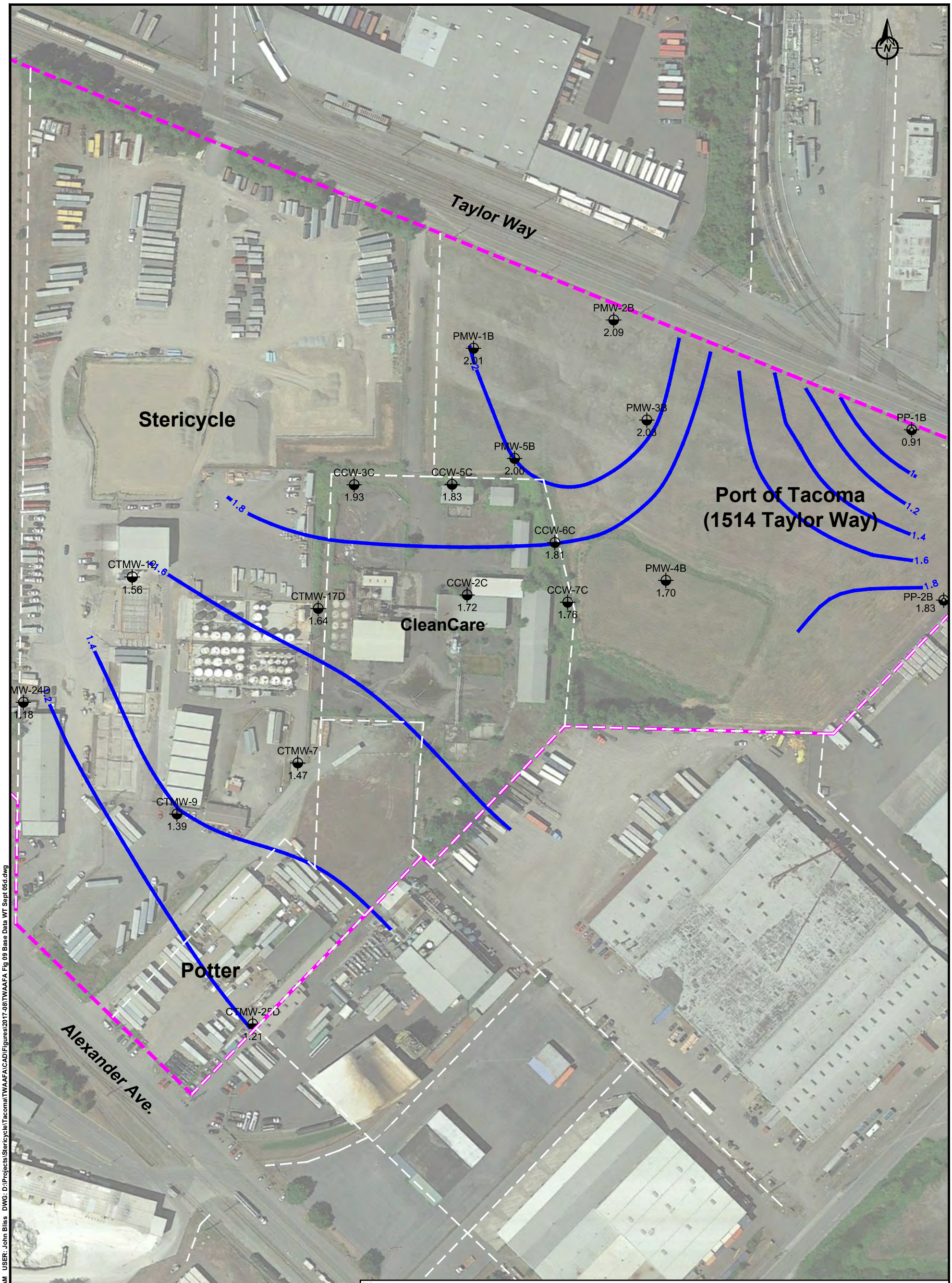
Shallow Groundwater Elevations, September 2005

DALTON OLMSTED FUGLEVAND

FIGURE 12

January 18,2019

PLOT TIME: 8/31/2017 12:08 PM MOD TIME: 8/25/2017 6:57 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CAD\Figures\2017-08\TWAAFA Fig 08 Base Data WT Sept 05sh.dwg



Note:
Water-level elevations were not measured for all deep monitoring wells at the Site.

Legend

- 3.5 — Groundwater Elevation Contour (Feet)
- CTMW-9 — Deep Aquifer Monitoring Well
- PP-1B — Deep Aquifer Piezometer
- TWAAFA Site
- Parcel Boundary

0 150
Scale in Feet

TWAAFA Site
Tacoma, Washington

Data Gaps Work Plan

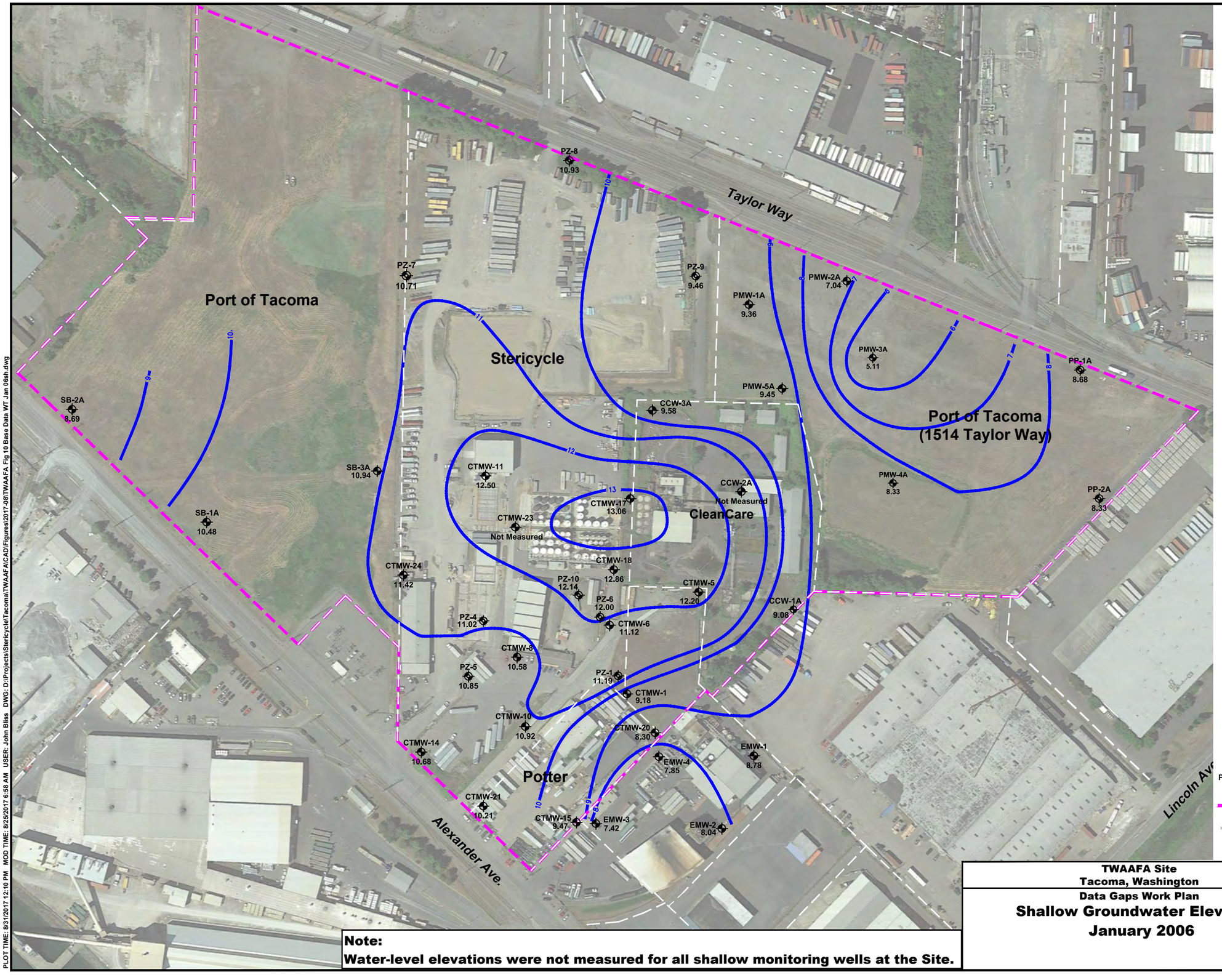
Deep Groundwater Elevations
September 2005

DALTON OLMSTED FUGLEVAND

FIGURE
13

January 18,2019

PLOT TIME: 8/31/2017 12:10 PM MOD TIME: 8/25/2017 6:58 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CAD\Figures\2017-08\TWAAFA Fig 09 Base Data WT Sept 05d.dwg



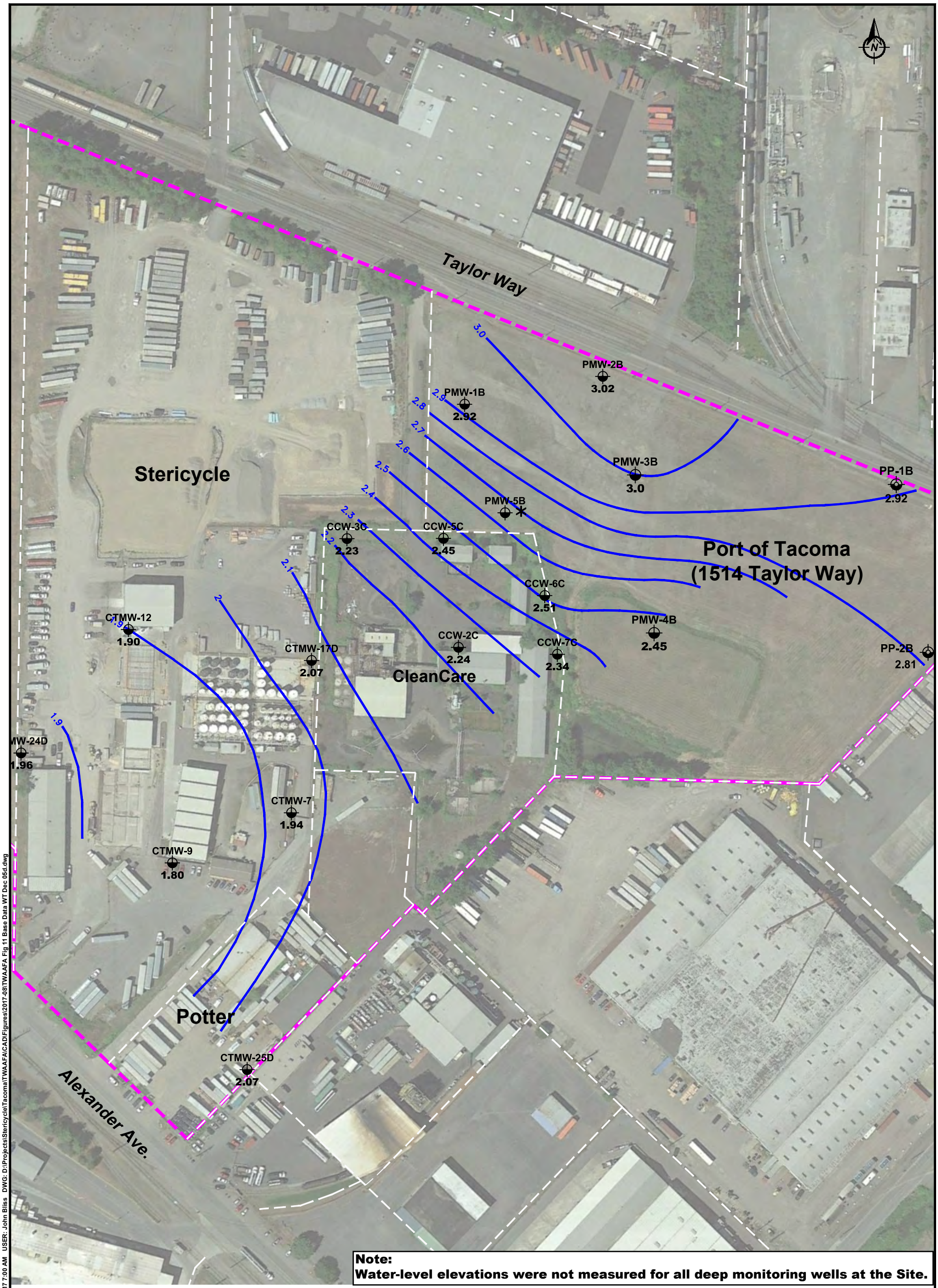
Note:
Water-level elevations were not measured for all shallow monitoring wells at the Site.

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan
Shallow Groundwater Elevation
January 2006

DALTON OLMSTED FUGLEVAND

FIGURE
14
January 18,2019

PLOT TIME: 8/31/2017 12:10 PM MOD TIME: 9/25/2017 6:58 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CAD\Figures\2017-08\TWAAFA Fig 10 Base Data WT Jan 06sh.dwg



Note:
Water-level elevations were not measured for all deep monitoring wells at the Site.

Legend

- 3.5 — Groundwater Elevation Contour (Feet)
- CTMW-9 — Deep Aquifer Monitoring Well
- PP-1B — Deep Aquifer Piezometer
- TWAAFA Site
- Parcel Boundary

0 150
Scale in Feet

TWAAFA Site
Tacoma, Washington

Data Gaps Work Plan

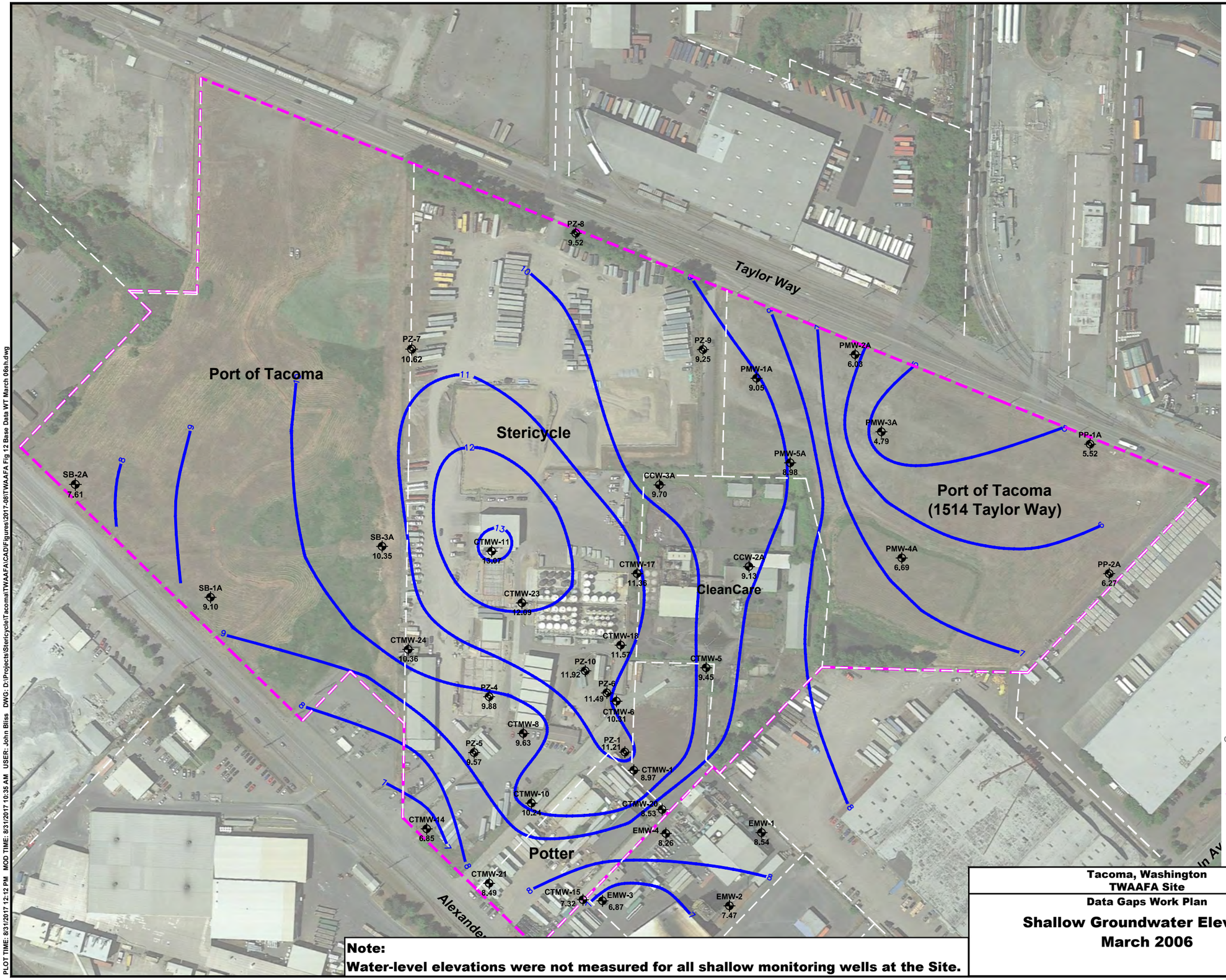
Deep Groundwater Elevations
December 2005

DALTON OLMSTED FUGLEVAND

FIGURE
15

January 18, 2019

PLOT TIME: 8/31/2017 12:11 PM MOD TIME: 8/25/2017 7:00 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CAD\Figures\2017-08\TWAAFA Fig 11 Base Data WT Dec 05d.dwg



Note:
Water-level elevations were not measured for all shallow monitoring wells at the Site.

Tacoma, Washington
TWAAFA Site
Data Gaps Work Plan

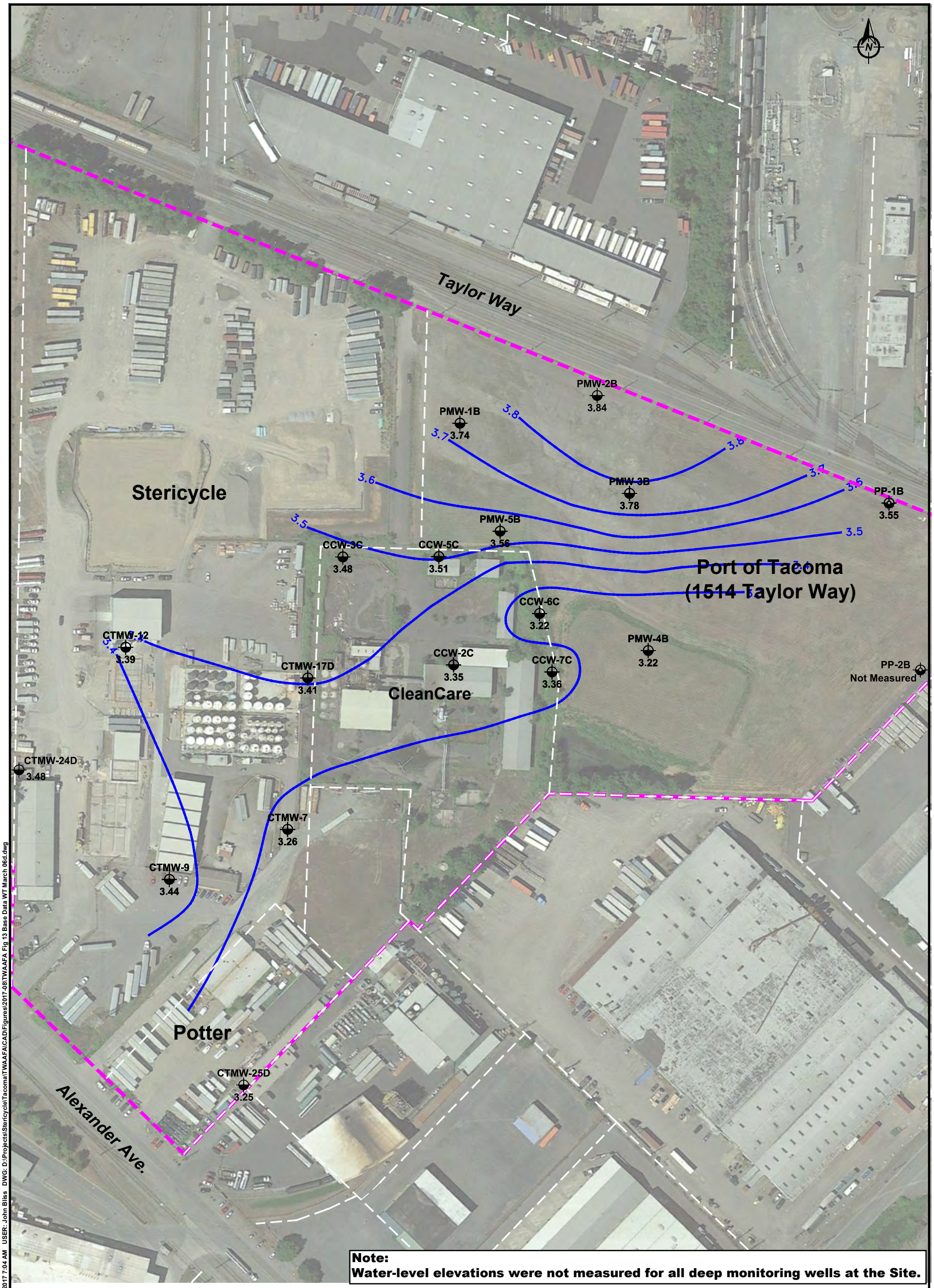
Shallow Groundwater Elevation March 2006

DALTON OLMSTED FUGLEVAND

FIGURE 16

January 18, 2019

PLOT TIME: 8/31/2017 12:12 PM MOD TIME: 8/31/2017 10:35 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CADFigures\2017-08\TWAAFA Fig 12 Base Data WT March 06sh.dwg



Note:
Water-level elevations were not measured for all deep monitoring wells at the Site.

Legend

- 3.5 — Groundwater Elevation Contour (Feet)
- CTMW-9 — Deep Aquifer Monitoring Well
- PP-1B — Deep Aquifer Piezometer
- TWAAFA Site
- Parcel Boundary

0 150
Scale in Feet

TWAAFA Site
Tacoma, Washington

Data Gaps Work Plan

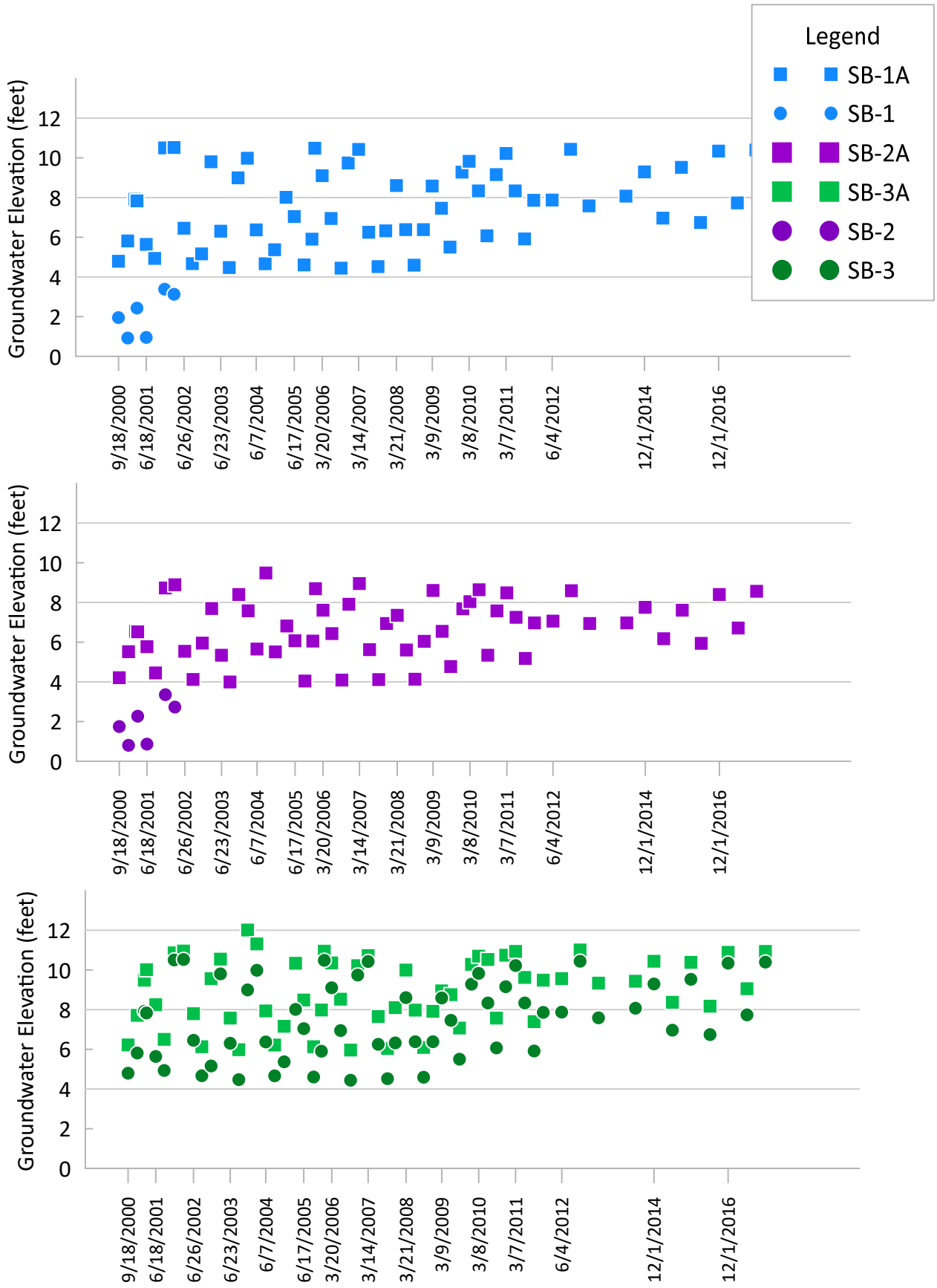
Deep Groundwater Elevations
March 2006

DOF DALTON OLMSTED FUGLEVAND

FIGURE 17

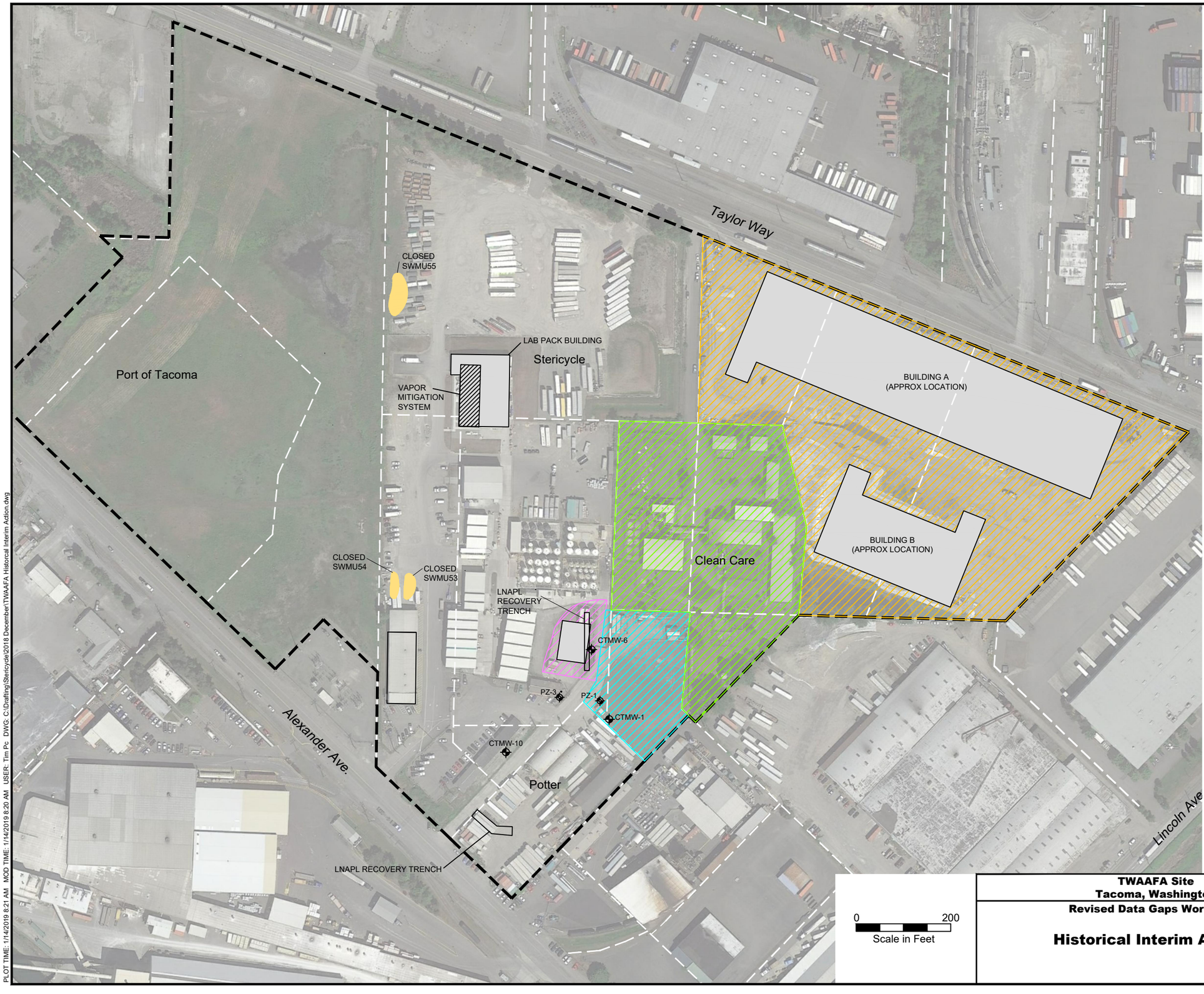
January 18, 2019

PLOT TIME: 8/31/2017 12:12 PM MOD TIME: 8/25/2017 7:04 AM USER: John Bliss DWG: D:\Projects\Stericycle\Tacoma\TWAAFA\CAD\Figures\2017-08\TWAAFA Fig 13 Base Data WT March 06d.dwg



1205 Alexander Ave & 1300 Taylor Way
Historical Groudwater Elevations
TWAAFA Site, Tacoma, Washington

Figure 18
January 18, 2019



Note:
1. Location of previous actions are available historical reports.

2. Precise location of LUST cleanup was not identified in available historical documents, but occurred within the footprint of the 1514 Taylor Way interim action.

3. Parcel A closure included excavation to approximately 4 to 7 feet below ground surface in the area approximately 9600 square feet in size.

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-1 — Well or Piezomer where LNAPL removal was performed
- EPA Time Critical Removal Action
- 1514 Taylor Way Interim Action
- Parcel A Excavation and Capping
- Parcel B Closure

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Revised Data Gaps Work PLan

Historical Interim Actions

DALTON OLMSTED FUGLEVAND

FIGURE 19
January 18, 2019

PLOT TIME: 1/14/2019 8:21 AM MOD TIME: 1/14/2019 8:20 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Historcal Interim Action.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected , Below Screening Level (30 mg/kg)
- Detected, Above Screening Level (30 mg/kg)
- Detected, Above 100 mg/kg

Note:
Highest concentration at each location reflected

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Gasoline Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 20
January 18, 2019

PLOT TIME: 6/14/2018 7:13 AM MOD TIME: 6/14/2018 7:12 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 14 TPH Gas Soil.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

0 120
Scale in Feet

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (2,000 mg/kg)
- Detected, Above Screening Level (2,000 mg/kg)
- Detected, Above >10,000 mg/kg

Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.

0 200
Scale in Feet

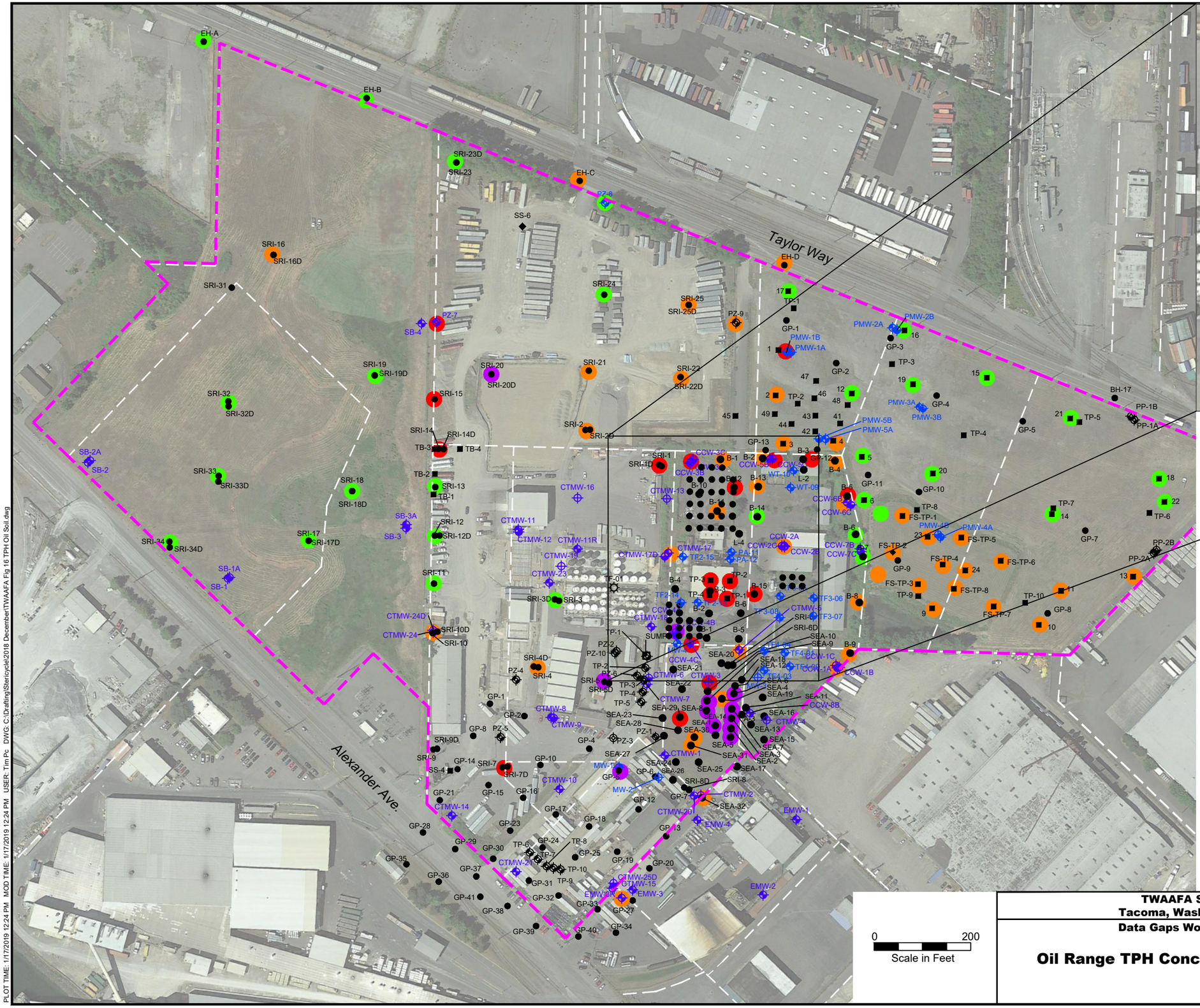
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Diesel Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 21
January 18, 2019

PLOT TIME: 1/17/2019 12:21 PM MOD TIME: 1/16/2019 2:19 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 15 TPH Diesel Soil.dwg



Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.

TWAAFA Site
Tacoma, Washington

Data Gaps Work Plan

Oil Range TPH Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 22

January 18, 2019

PLOT TIME: 1/17/2019 12:24 PM MOD TIME: 1/17/2019 12:24 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 16 TPH Oil Soil.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

0 120
Scale in Feet

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected , Below Screening Level (0.027 mg/kg)
- Detected, Above Screening Level (0.027 mg/kg)
- Detected, Above 1mg/kg

Note:

1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

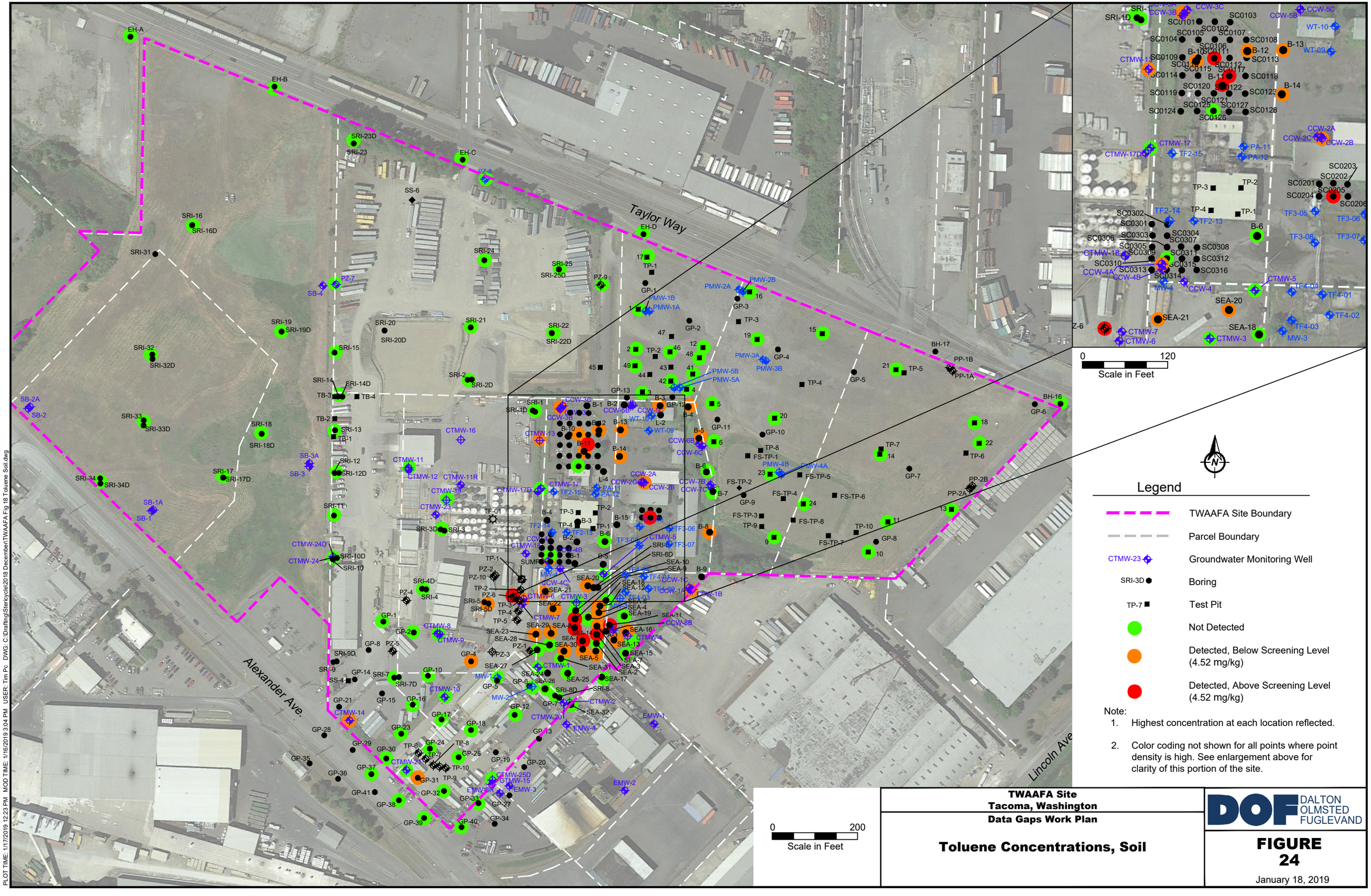
Benzene Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 23

January 18, 2019

PLOT TIME: 1/16/2019 2:49 PM MOD TIME: 1/16/2019 2:48 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 17 Benzene Soil.dwg



TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

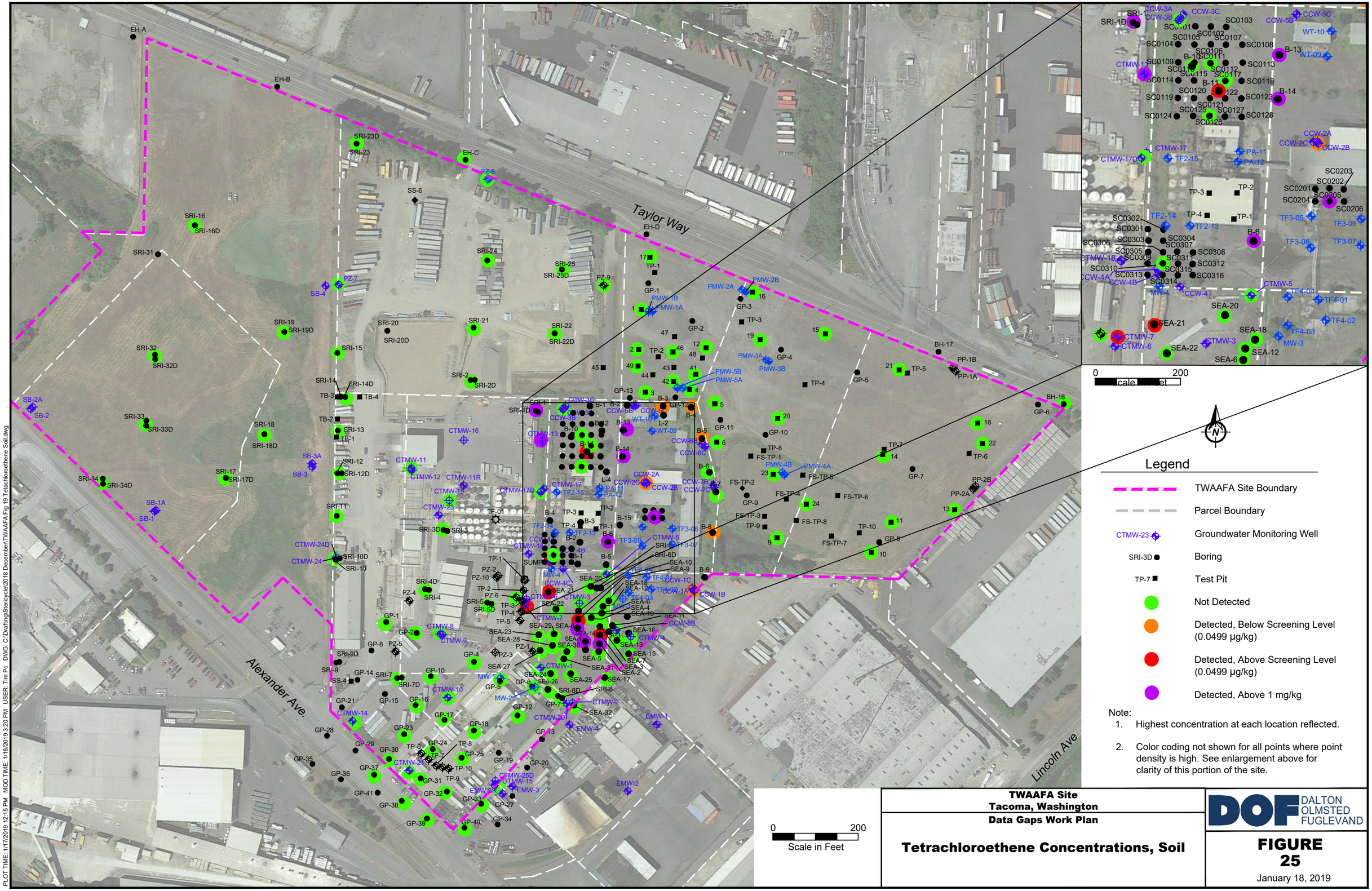
Toluene Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 24

January 18, 2019

PLOT TIME: 1/17/2019 12:23 PM MOD TIME: 1/16/2019 3:04 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 18 Toluene Soil.dwg



TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

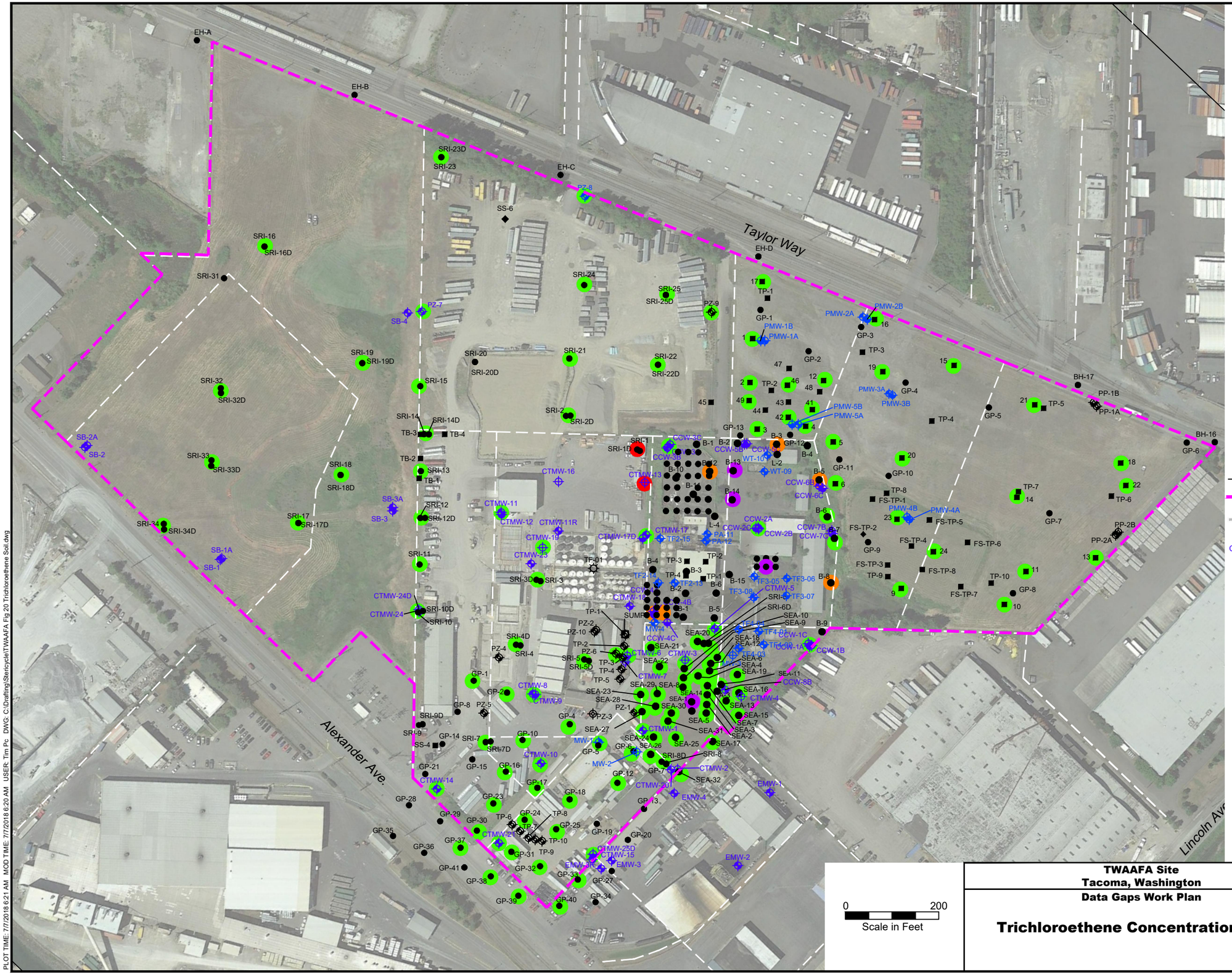
Tetrachloroethene Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 25

January 18, 2019

PLOT TIME: 1/17/2019 12:15 PM MOD TIME: 1/16/2019 3:20 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 19 Tetachloroethene Soil.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected , Below Screening Level (0.0254 mg/kg)
- Detected, Above Screening Level (0.0254 mg/kg)
- Detected, Above 1mg/kg

Note:
Highest concentration at each location reflected.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

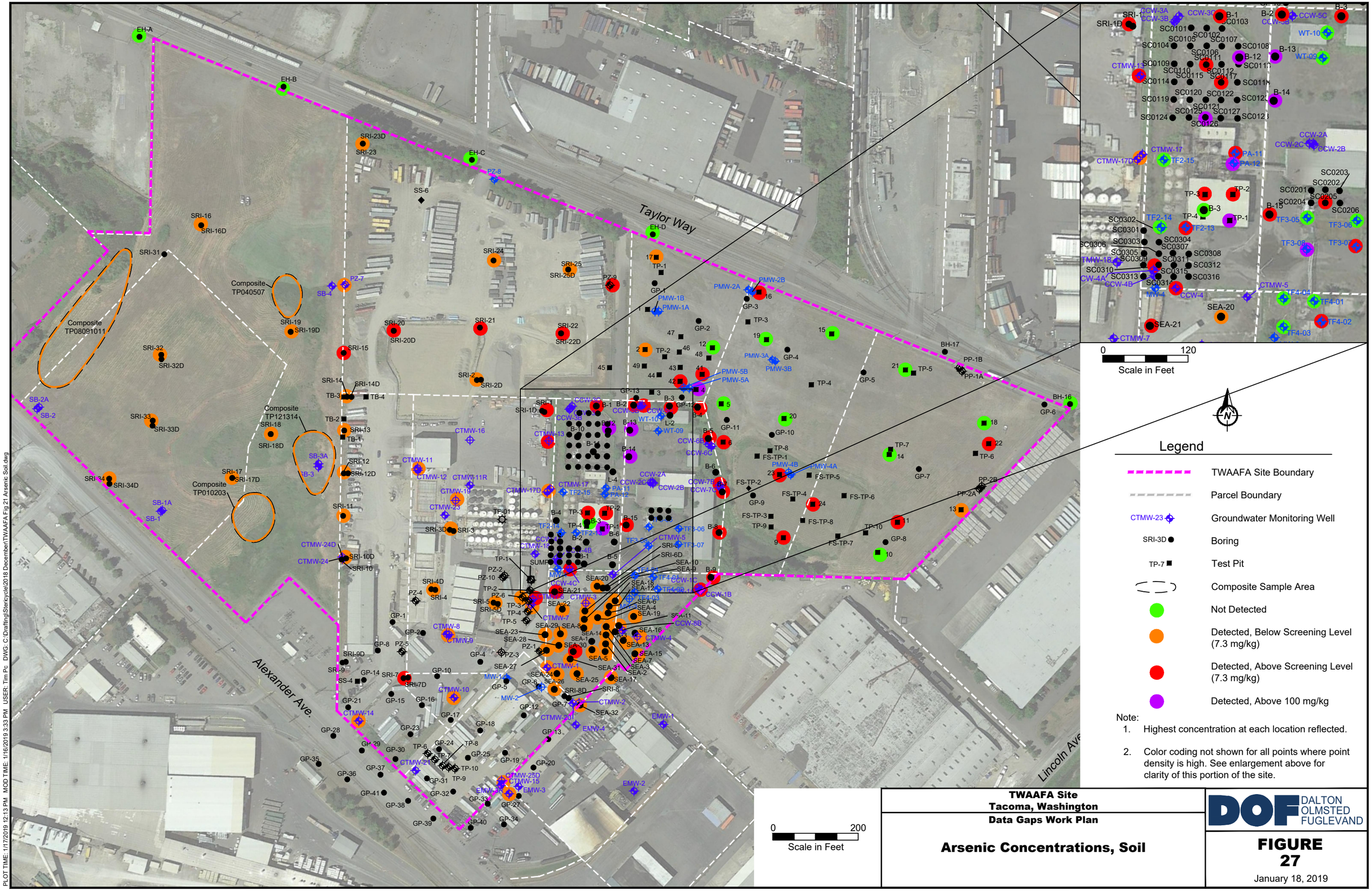
Trichloroethene Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 26

January 18, 2019

PLOT TIME: 7/7/2018 6:21 AM MOD TIME: 7/7/2018 6:20 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\1TWAAFA Fig 20 Trichloroethene Soil.dwg



TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

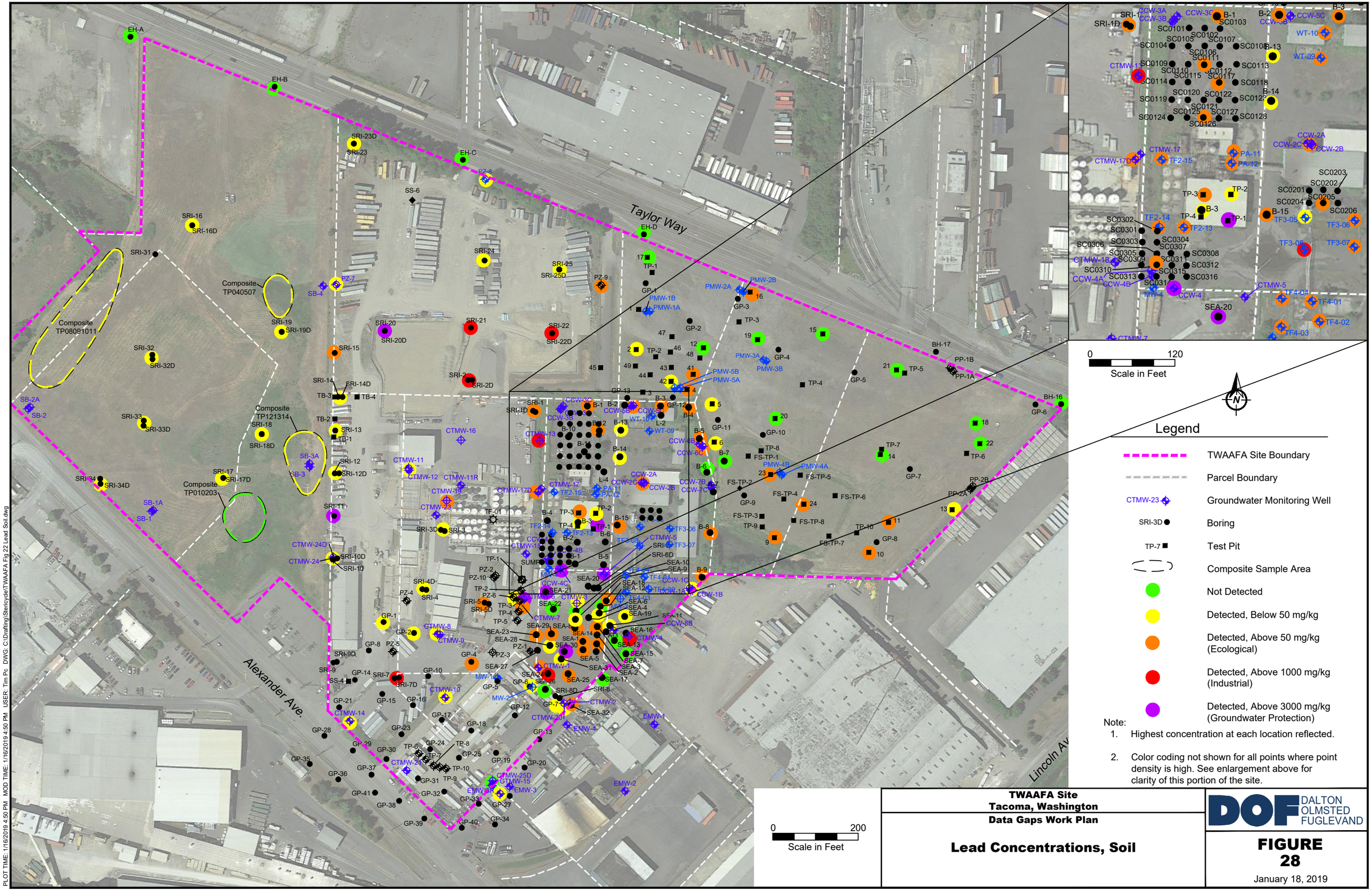
Arsenic Concentrations, Soil

DALTON OLMSTED FUGLEVAND

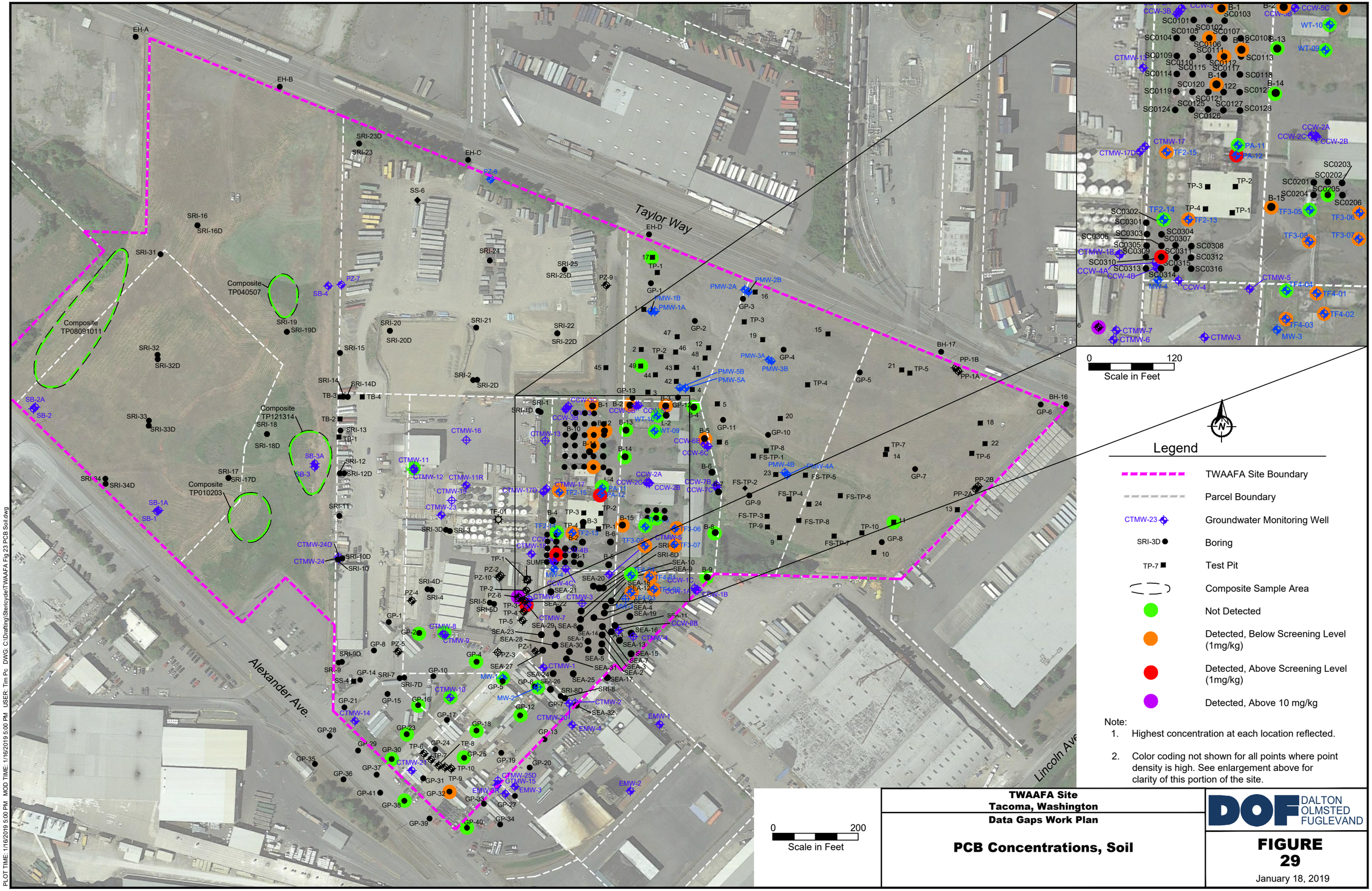
FIGURE 27

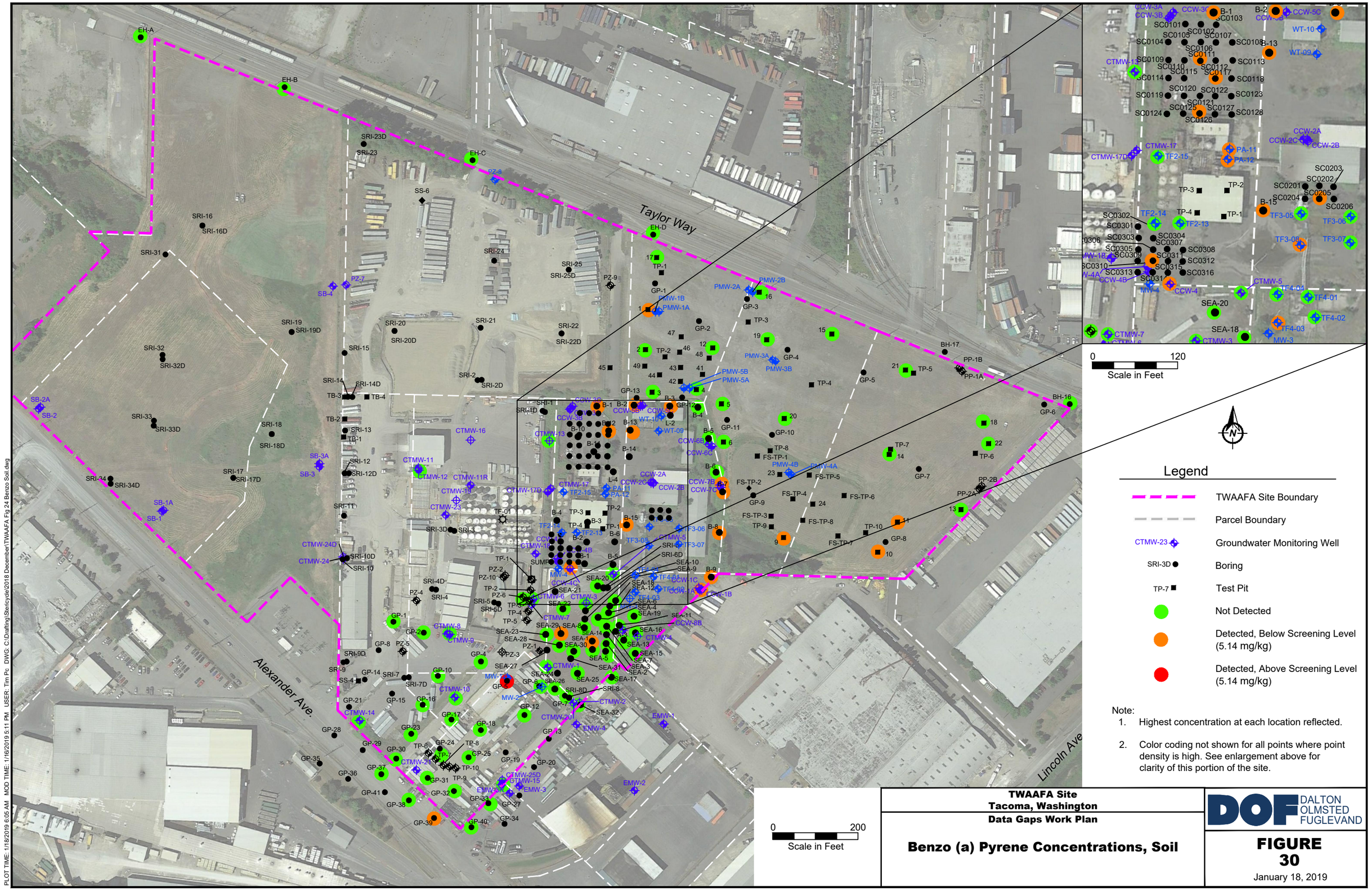
January 18, 2019

PLOT TIME: 1/17/2019 12:13 PM MOD TIME: 1/16/2019 3:33 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 21 Arsenic Soil.dwg



PLOT TIME: 1/16/2019 4:50 PM MOD TIME: 1/16/2019 4:50 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 22 Lead Soil.dwg


Taylor Way
Alexander Ave.
Lincoln Ave
Composite TP040507
Composite TP08091011
Composite TP121314
Composite TP010203
0
120
Scale in Feet
Legend
TWAAFA Site Boundary
Parcel Boundary
Groundwater Monitoring Well
Boring
Test Pit
Composite Sample Area
Not Detected
Detected, Below Screening Level (1mg/kg)
Detected, Above Screening Level (1mg/kg)
Detected, Above 10 mg/kg
Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.
0
200
Scale in Feet
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan
PCB Concentrations, Soil
DALTON OLMSTED FUGLEVAND
FIGURE 29
January 18, 2019
PLOT TIME: 1/16/2019 5:00 PM MOD TIME: 1/16/2019 5:00 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 23 PCB Soil.dwg



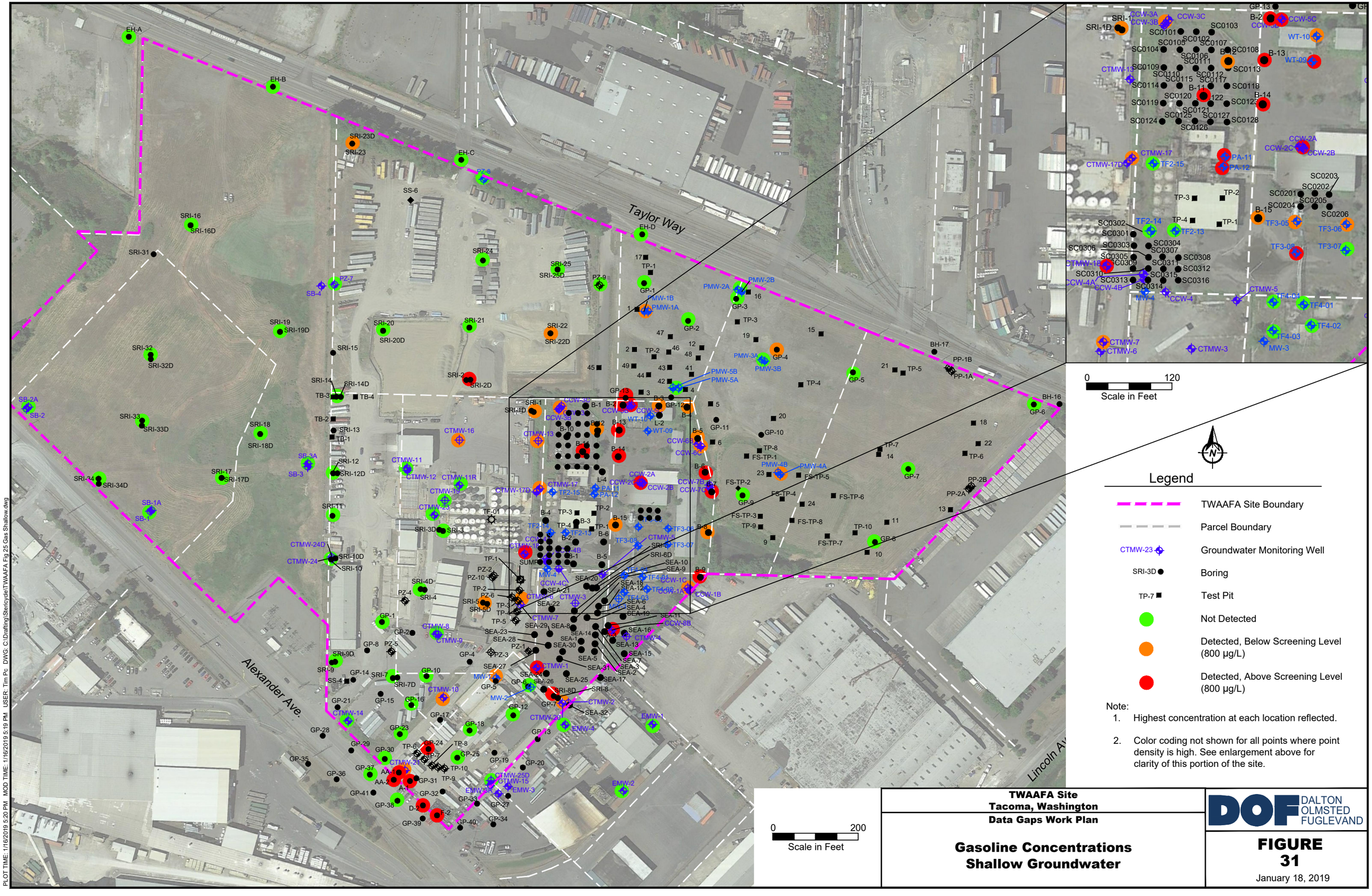
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

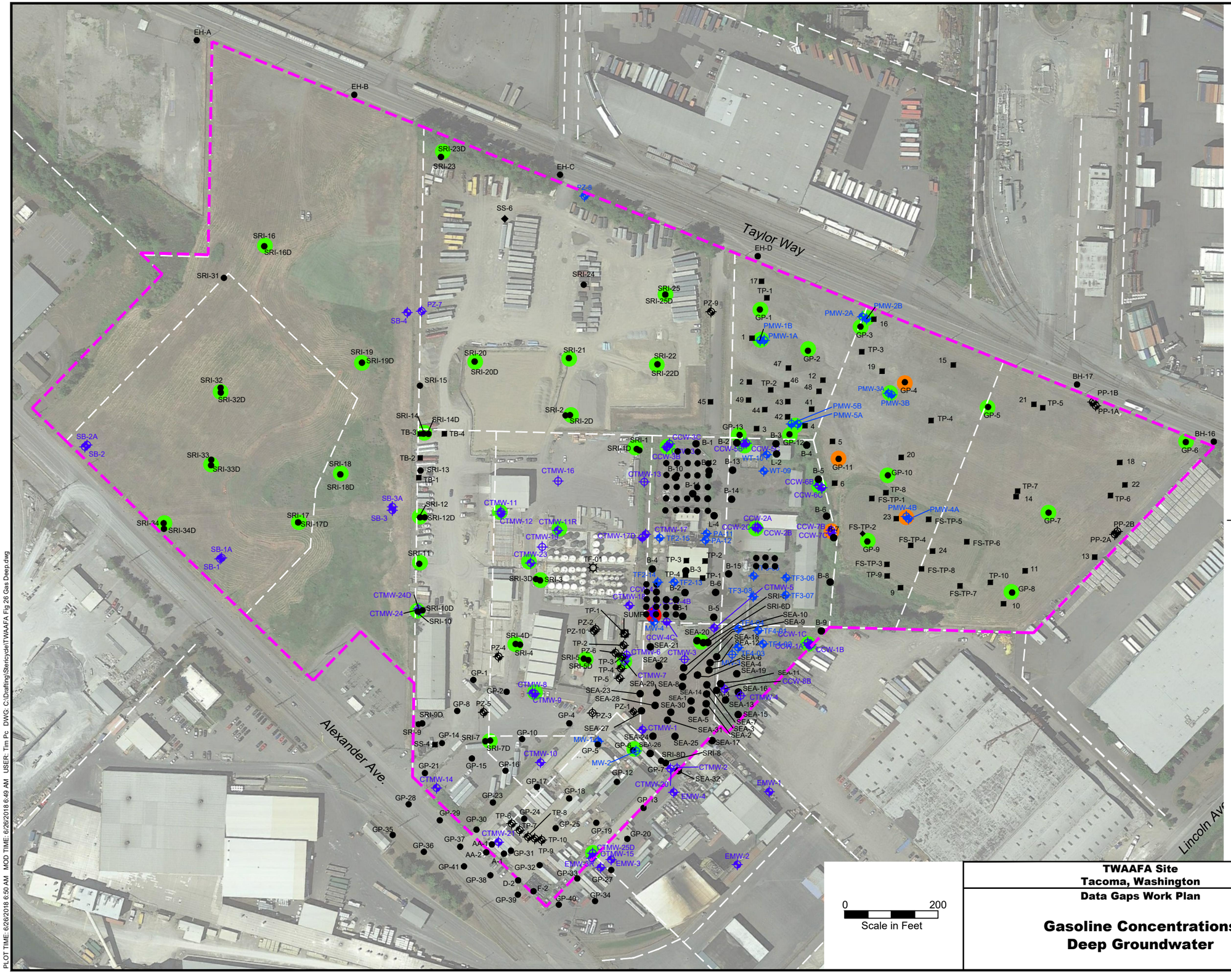
Benzo (a) Pyrene Concentrations, Soil

DALTON OLMSTED FUGLEVAND

FIGURE 30
January 18, 2019

PLOT TIME: 1/18/2019 6:05 AM MOD TIME: 1/16/2019 5:11 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 24 Benzo Soil.dwg


Taylor Way
Alexander Ave.
Lincoln Av
0
120
Scale in Feet
N
Legend
TWAAFA Site Boundary
Parcel Boundary
Groundwater Monitoring Well
Boring
Test Pit
Not Detected
Detected, Below Screening Level (800 µg/L)
Detected, Above Screening Level (800 µg/L)
Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.
0
200
Scale in Feet
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan
Gasoline Concentrations
Shallow Groundwater
DOF DALTON OLMSTED FUGLEVAND
FIGURE
31
January 18, 2019
PLOT TIME: 1/16/2019 5:20 PM MOD TIME: 1/16/2019 5:19 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 25 Gas Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D ● — Boring
- TP-7 ■ — Test Pit
- Not Detected
- Detected, Below Screening Level (800 µg/L)
- Detected, Above Screening Level (800 µg/L)

Note:
Highest detected at each location reflected.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

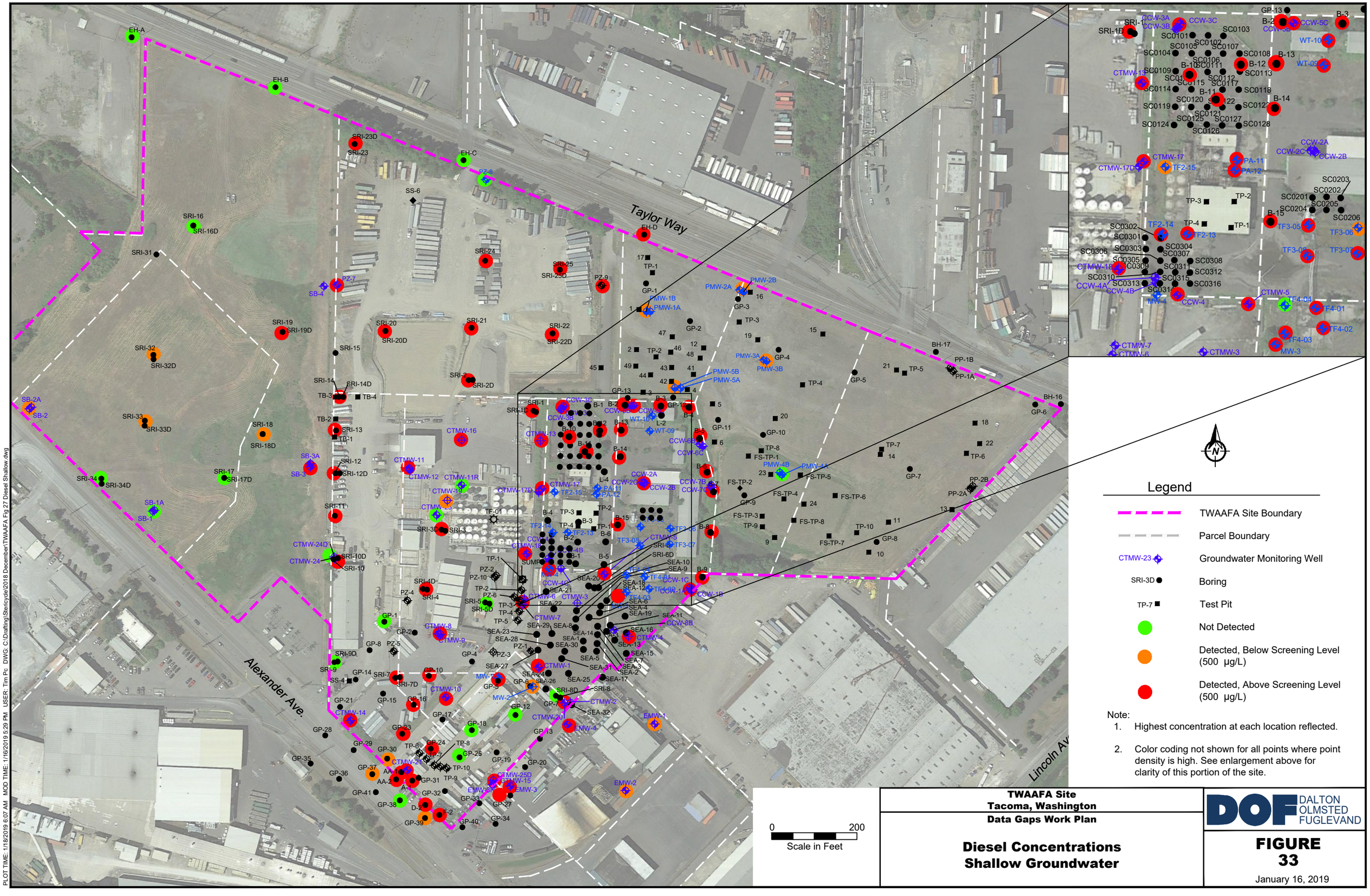
Gasoline Concentrations Deep Groundwater

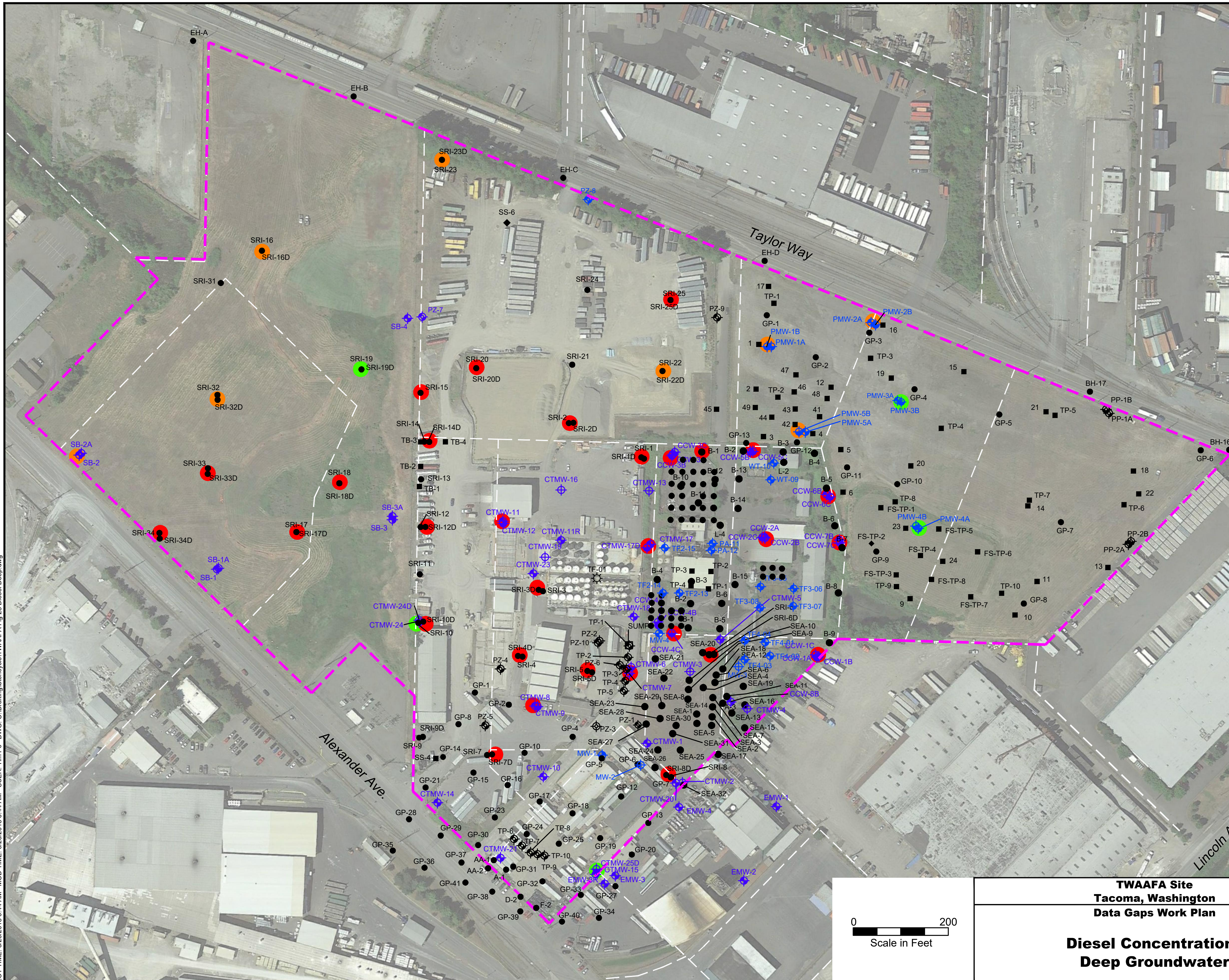
DALTON OLMSTED FUGLEVAND

FIGURE 32

January 18, 2019

PLOT TIME: 6/26/2018 6:50 AM MOD TIME: 6/26/2018 6:49 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 26 Gas Deep.dwg


Taylor Way
Alexander Ave.
Lincoln Ave
Legend
TWAAFA Site Boundary
Parcel Boundary
Groundwater Monitoring Well
Boring
Test Pit
Not Detected
Detected, Below Screening Level (500 µg/L)
Detected, Above Screening Level (500 µg/L)
Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.
0
200
Scale in Feet
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan
Diesel Concentrations
Shallow Groundwater
DALTON OLMSTED FUGLEVAND
FIGURE
33
January 16, 2019
PLOT TIME: 1/18/2019 6:07 AM MOD TIME: 1/16/2019 5:29 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 27 Diesel Shallow.dwg



Legend

TWAAFA Site Boundary

Parcel Boundary

CTMW-23 Groundwater Monitoring Well

SRI-3D Boring

TP-7 Test Pit

Not Detected

Detected Below Screening Level (500 µg/L)

Detected Above Screening Level (500 µg/L)

Note:
Highest detection at each location reflected.

0 200
Scale in Feet

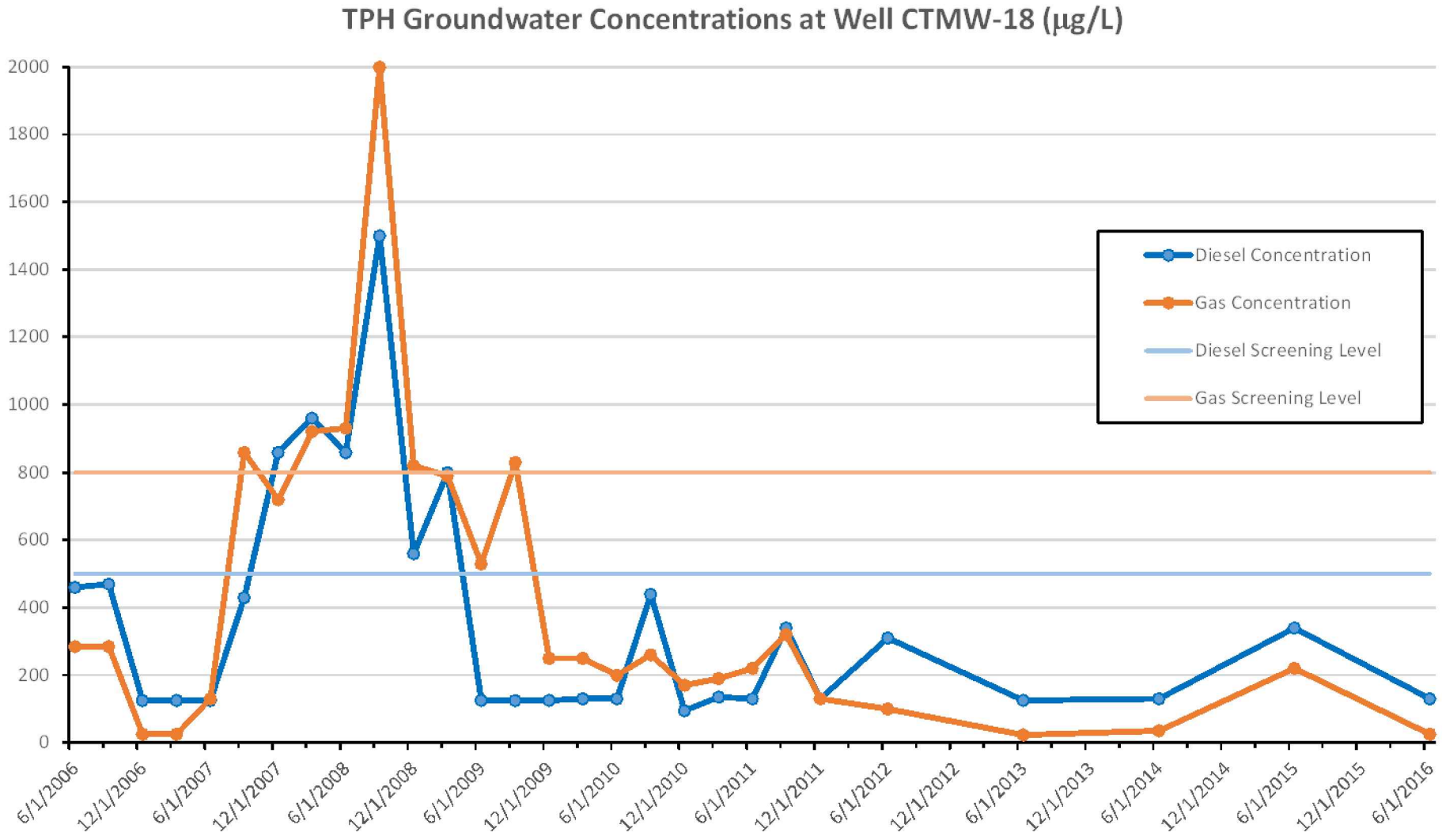
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Diesel Concentrations Deep Groundwater

DOF DALTON OLMSTED FUGLEVAND

FIGURE 34

January 18, 2019



TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

TPH Groundwater Concentrations at Well CTMW-18 (µg/L)

DOF DALTON OLMSTED FUGLEVAND

FIGURE 35

January 18, 2019

Taylor Way

Alexander Ave.

Lincoln Ave

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (1.6 µg/L)
- Detected, Above Screening Level (1.6 µg/L)

Note:
Highest concentration at each location reflected.

0 200
Scale in Feet

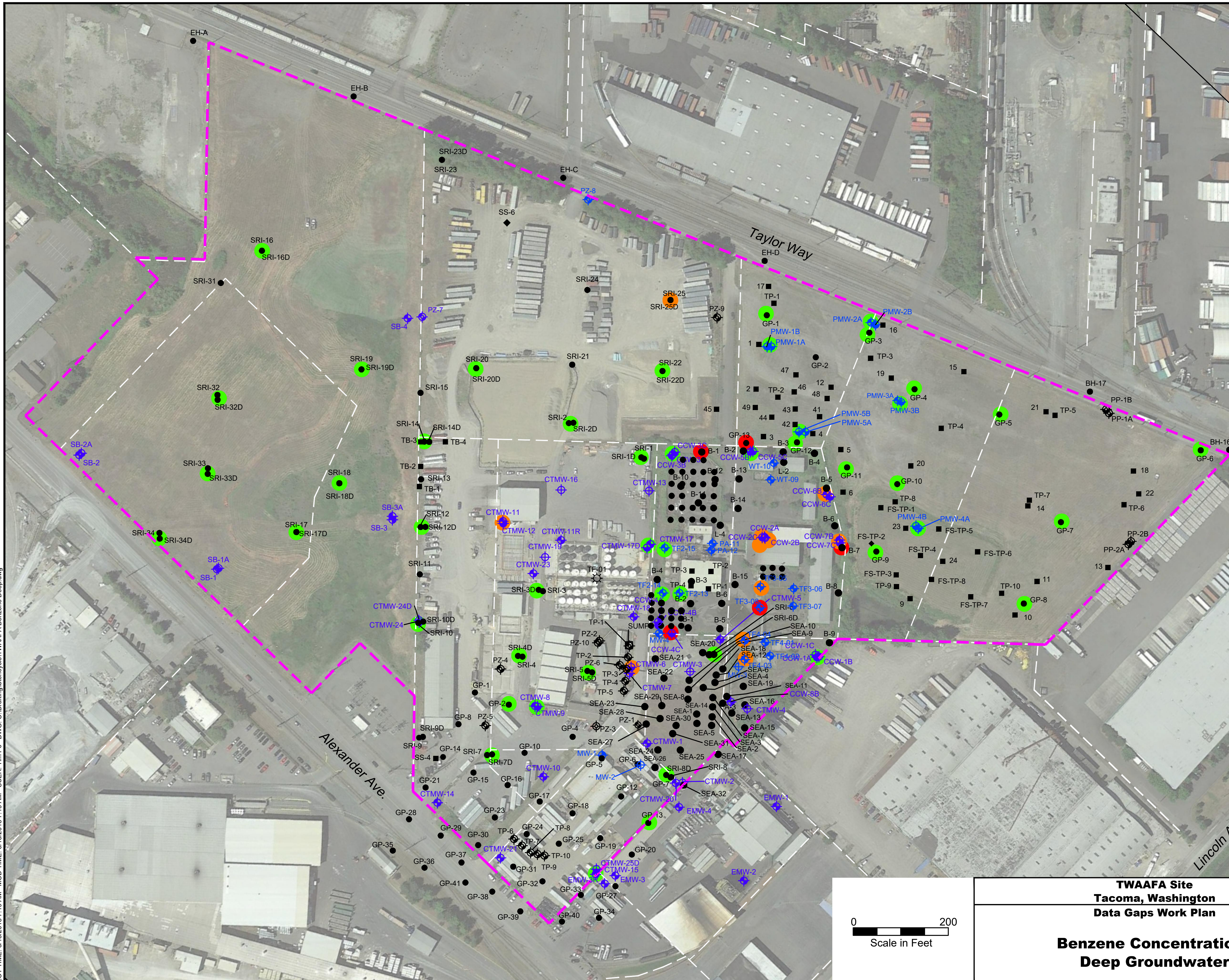
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Benzene Concentrations Shallow Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 36
January 18, 2019

PLOT TIME: 7/9/2018 5:29 AM MOD TIME: 7/9/2018 5:28 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 30 Benzene Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected , Below Screening Level (1.6 µg/l)
- Detected, Above Screening Level (1.6 µg/l)

Note:
Highest concentration at each location reflected.

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

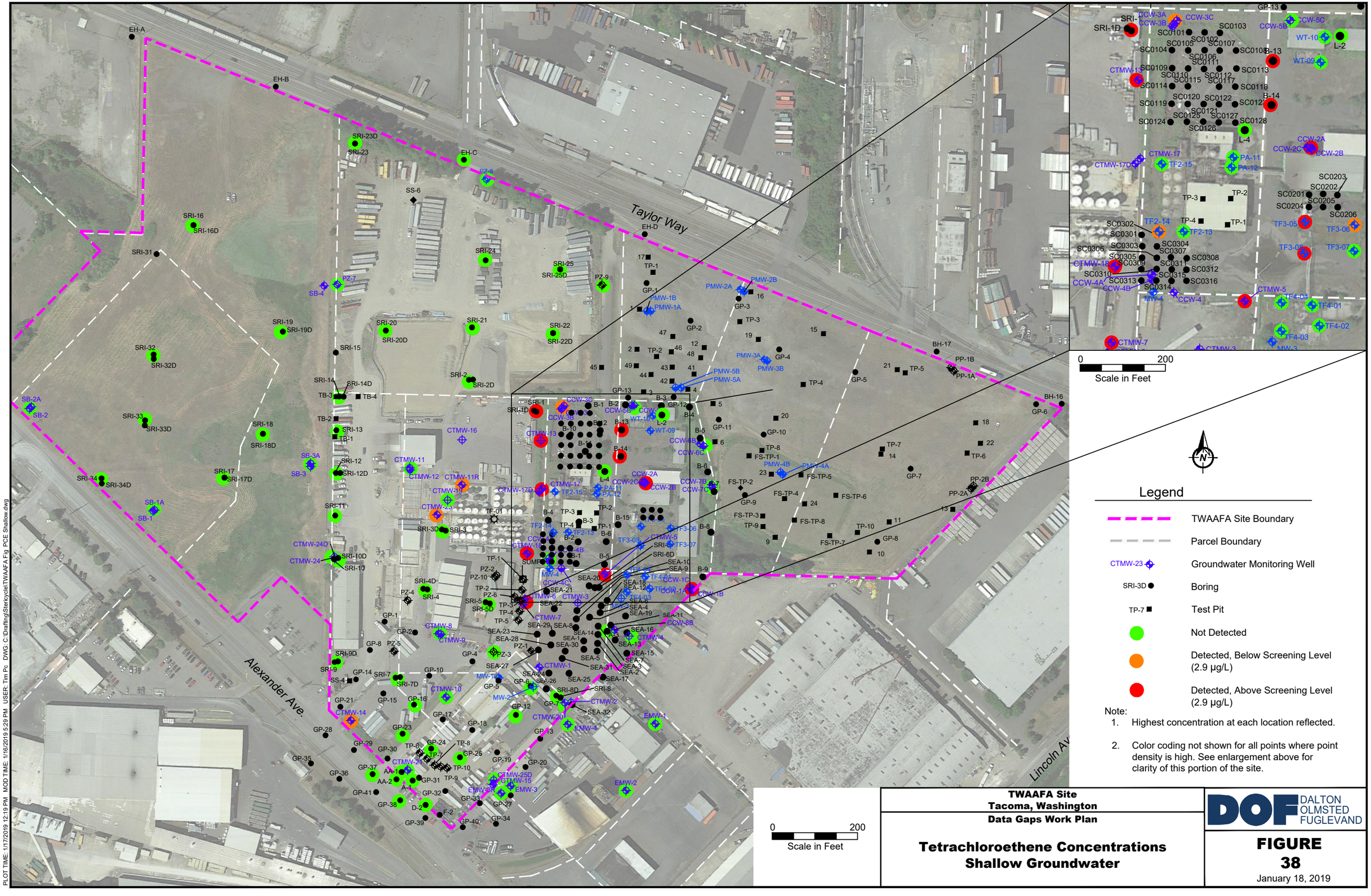
Benzene Concentrations Deep Groundwater

DOF DALTON OLMSTED FUGLEVAND

FIGURE 37

Janurary 18, 2019

PLOT TIME: 6/13/2018 7:19 AM MOD TIME: 6/13/2018 7:19 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Benzene Deep.dwg



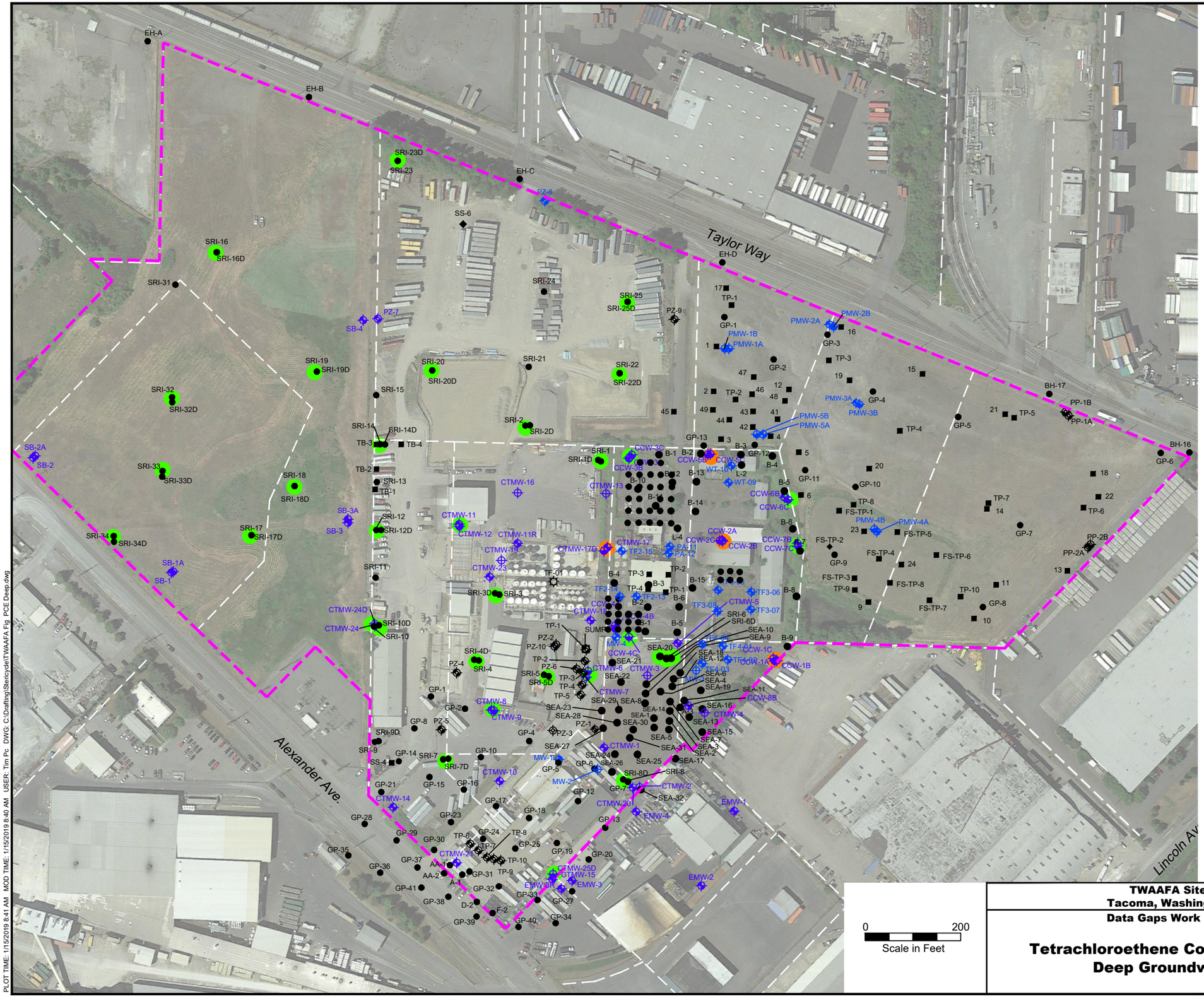
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Tetrachloroethene Concentrations Shallow Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 38
January 18, 2019

PLOT TIME: 1/17/2019 12:19 PM MOD TIME: 1/16/2019 5:29 PM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig PCE Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (2.9 µg/L)
- Detected, Above Screening Level (2.9 µg/L)

Note:
Highest concentration at each location reflected.

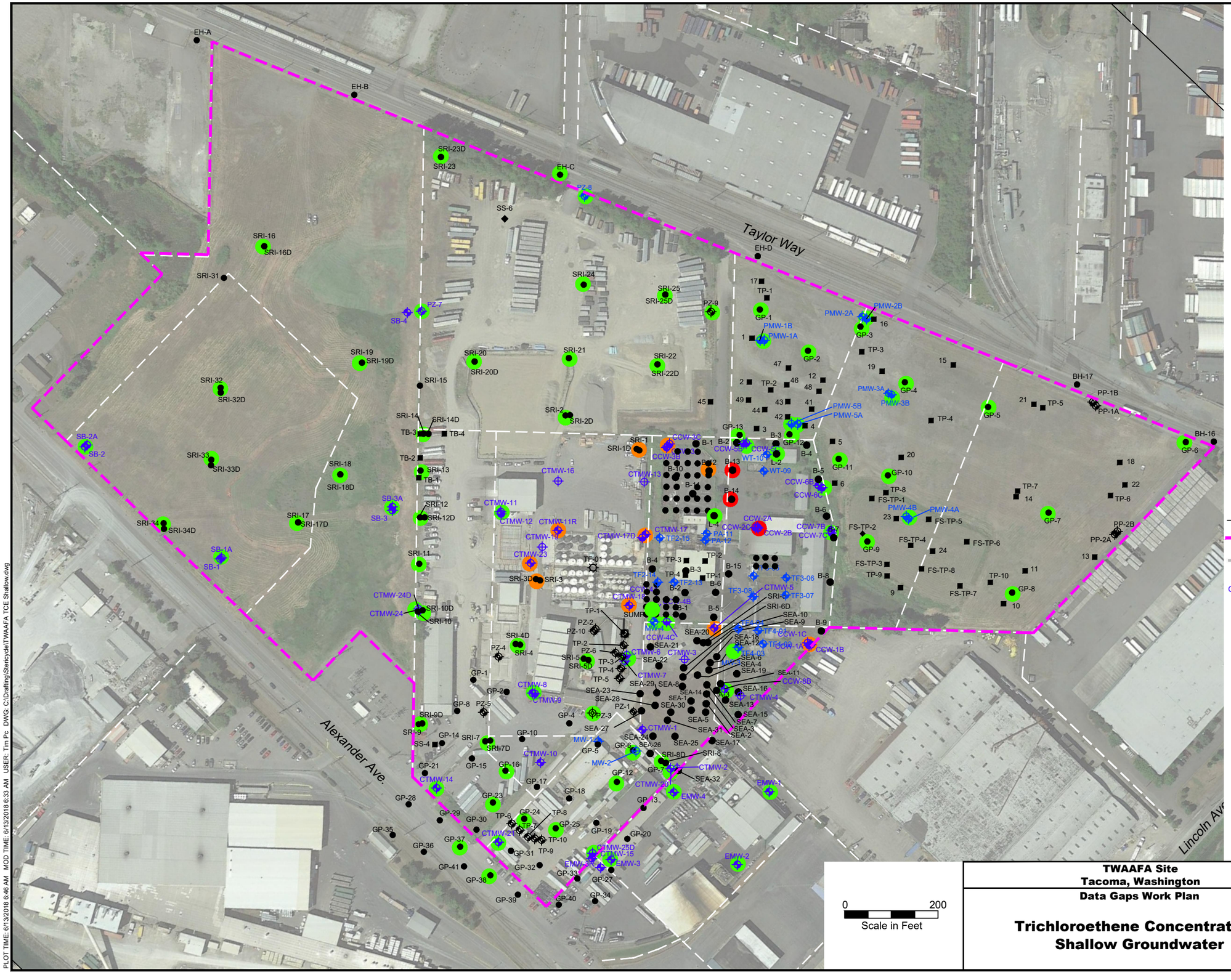
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Tetrachloroethene Concentrations Deep Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 39
January 18, 2019

PLOT TIME: 1/15/2019 9:41 AM MOD TIME: 1/15/2019 9:40 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig PCE Deep.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected , Below Screening Level (0.7 µg/l)
- Detected, Above Screening Level (0.7 µg/l)

Note:
Highest concentration at each location reflected.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

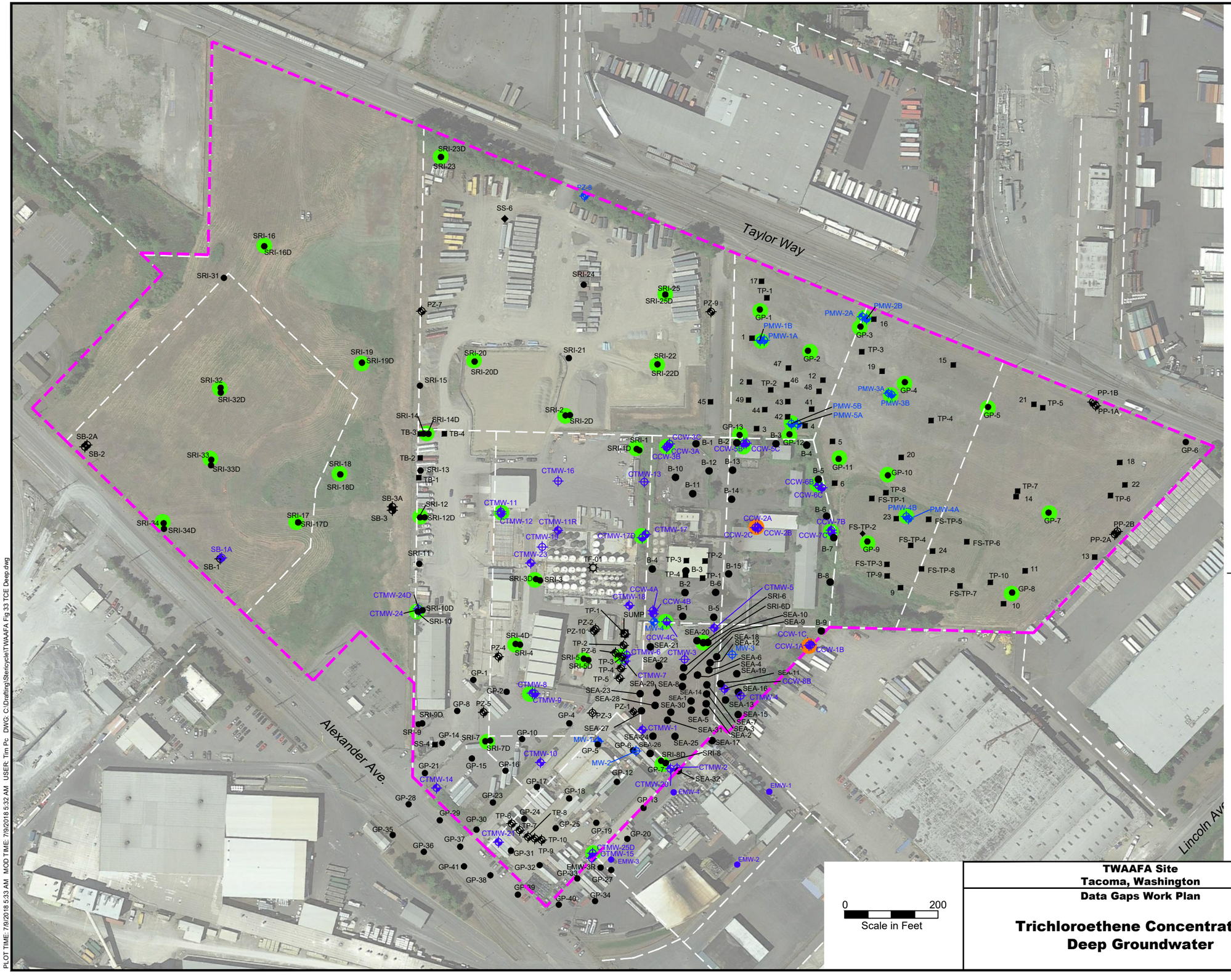
Trichloroethene Concentrations Shallow Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 40

January 18, 2019

PLOT TIME: 6/13/2016 6:46 AM MOD TIME: 6/13/2018 6:33 AM USER: Tim Pc DWG: C:\Drafting\Sterlicycle\TWAAFA TCE Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (0.7 µg/L)
- Detected, Above Screening Level (0.7 µg/L)

Note:
Highest concentration at each location reflected.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Trichloroethene Concentrations Deep Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 41
January 18, 2019

PLOT TIME: 7/9/2018 5:33 AM MOD TIME: 7/9/2018 5:32 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 33 TCE Deep.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

0 120
Scale in Feet

N

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (0.18 µg/L)
- Detected, Above Screening Level (0.18 µg/L)

Note:

1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.

0 200
Scale in Feet

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

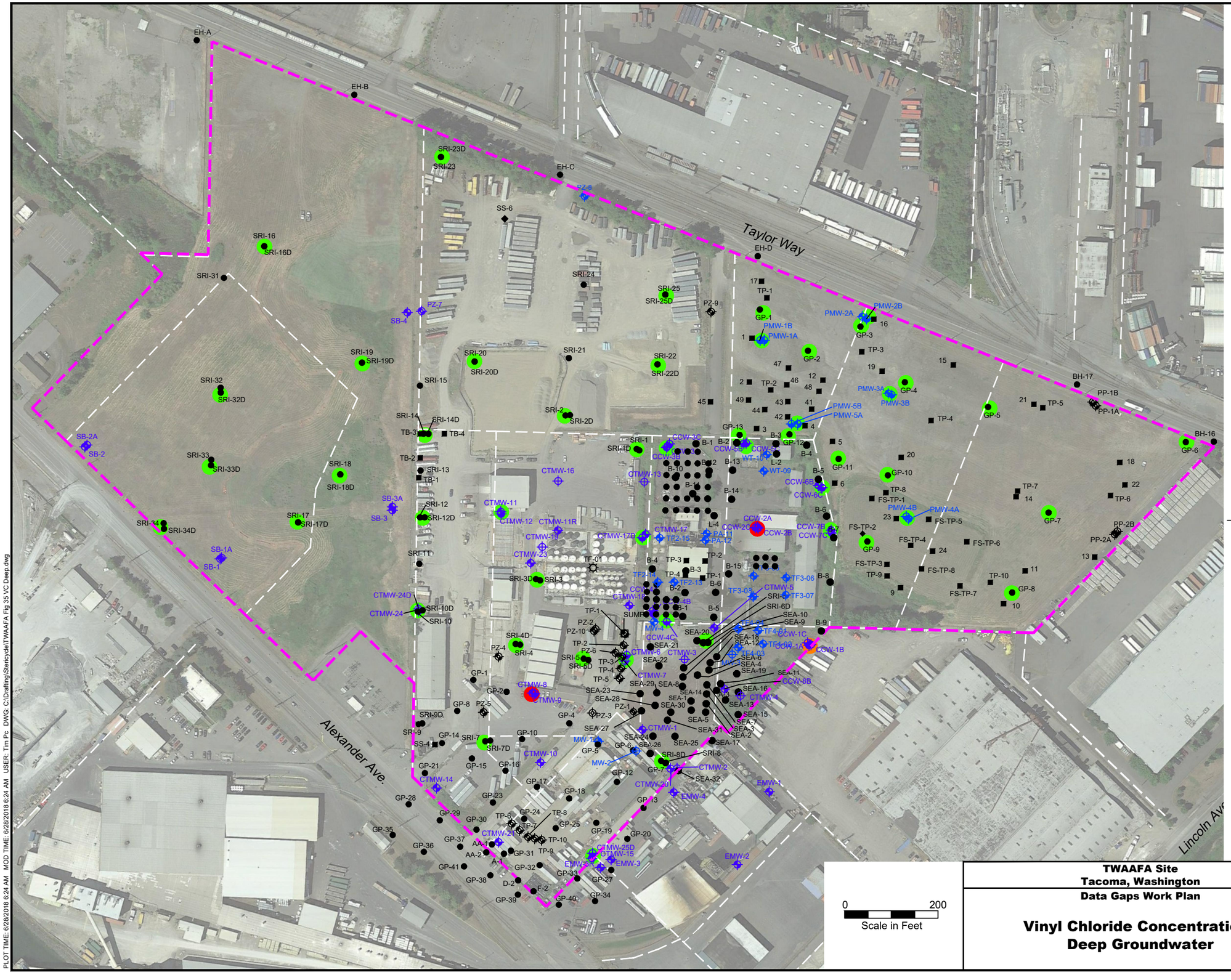
Vinyl Chloride Concentrations Shallow Groundwater

DOF DALTON OLMSTED FUGLEVAND

FIGURE 42

January 18, 2019

PLOT TIME: 1/18/2019 6:09 AM MOD TIME: 1/18/2019 6:09 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\2018 December\TWAAFA Fig 34 VC Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (0.18 µg/L)
- Detected, Above Screening Level (0.18 µg/L)

Note:
Highest concentration at each location reflected.

TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Vinyl Chloride Concentrations Deep Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 43
January 18, 2019

PLOT TIME: 6/28/2016 6:24 AM MOD TIME: 6/28/2018 6:24 AM USER: Tim Pc DWG: C:\Drafting\Sterlcycle\TWAAFA Fig 35 VC Deep.dwg

Taylor Way

Alexander Ave.

Lincoln Ave

0 120
Scale in Feet

N

Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (5 µg/L)
- Detected, Above Screening Level (5 µg/L)

Note:

1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.

0 200
Scale in Feet

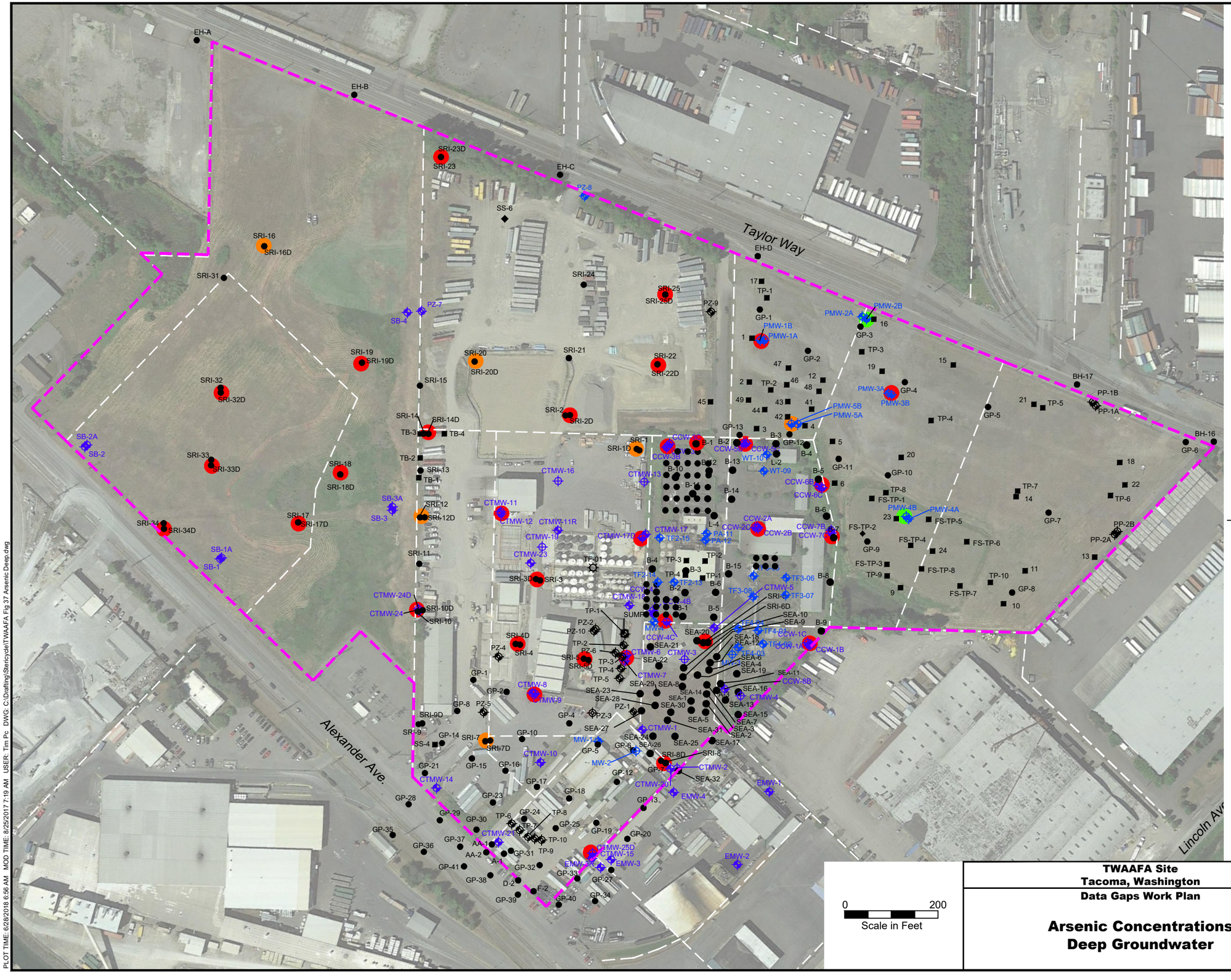
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Arsenic Concentrations Shallow Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 44
January 18, 2019

PLOT TIME: 1/17/2019 6:48 AM MOD TIME: 1/17/2019 6:47 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 36 Arsenic Shallow.dwg



Legend

- TWAAFA Site Boundary
- Parcel Boundary
- CTMW-23 — Groundwater Monitoring Well
- SRI-3D — Boring
- TP-7 — Test Pit
- Not Detected
- Detected, Below Screening Level (5 µg/L)
- Detected, Above Screening Level (5 µg/L)

Note:
Highest concentration at each location reflected.

0 200
Scale in Feet

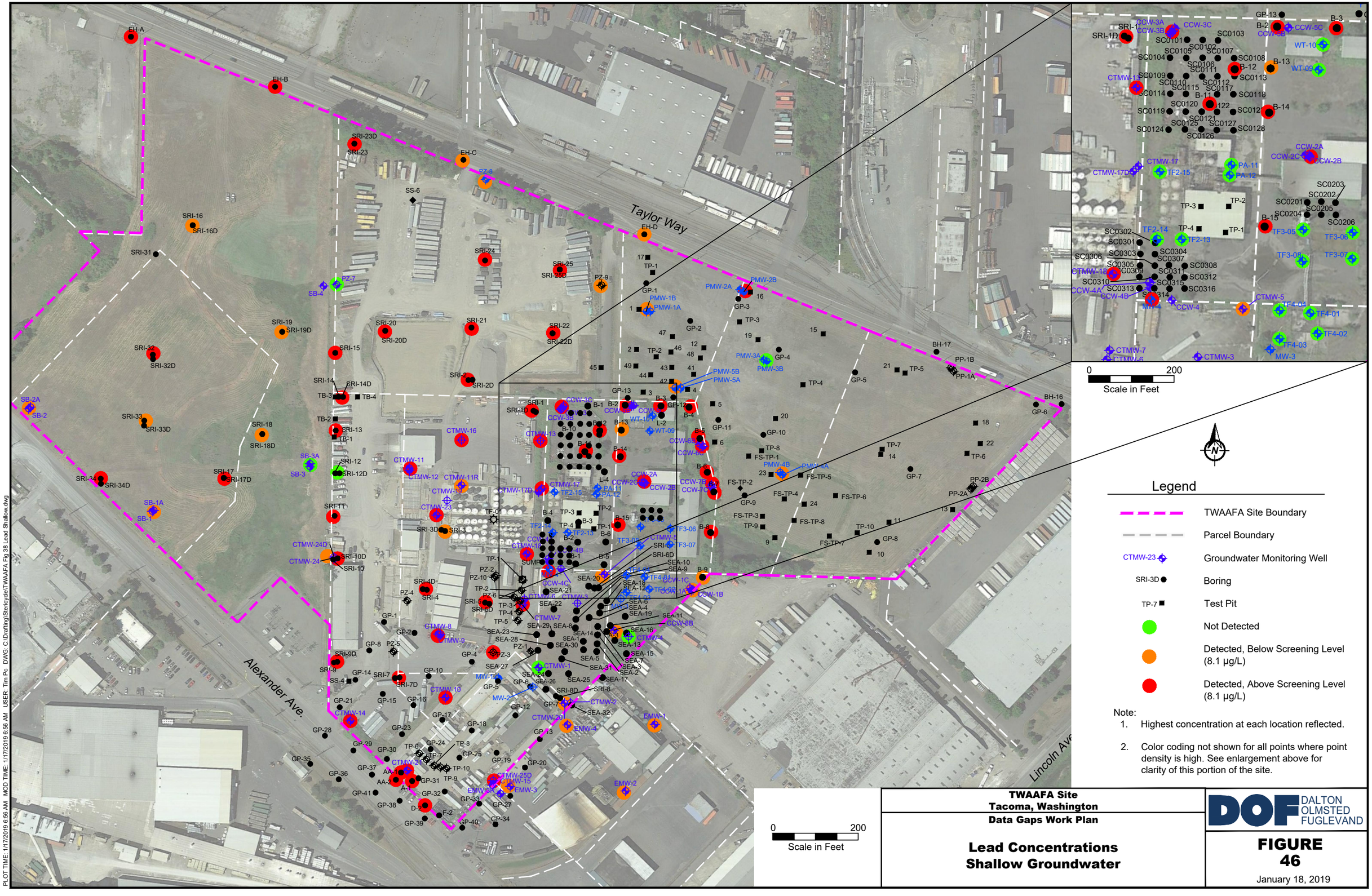
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

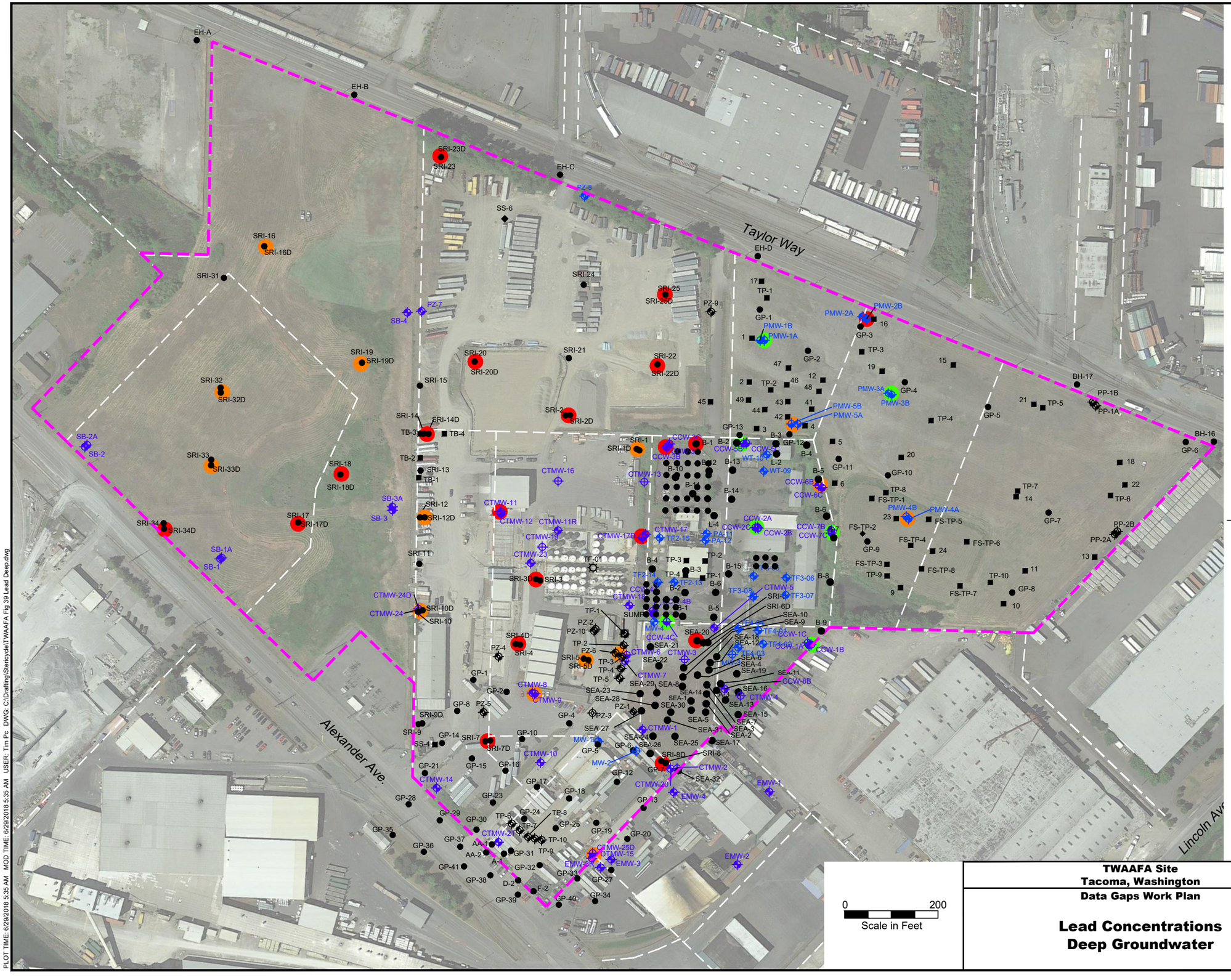
Arsenic Concentrations Deep Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 45
January 18, 2019

PLOT TIME: 6/28/2016 6:56 AM MOD TIME: 8/25/2017 7:19 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig.37 Arsenic Deep.dwg


Taylor Way
Alexander Ave.
Lincoln Ave
0
200
Scale in Feet
N
Legend
TWAAFA Site Boundary
Parcel Boundary
Groundwater Monitoring Well
Boring
Test Pit
Not Detected
Detected, Below Screening Level (8.1 µg/L)
Detected, Above Screening Level (8.1 µg/L)
Note:
1. Highest concentration at each location reflected.
2. Color coding not shown for all points where point density is high. See enlargement above for clarity of this portion of the site.
0
200
Scale in Feet
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan
Lead Concentrations
Shallow Groundwater
DOF DALTON OLMSTED FUGLEVAND
FIGURE
46
January 18, 2019
PLOT TIME: 1/17/2019 6:56 AM MOD TIME: 1/17/2019 6:56 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 38 Lead Shallow.dwg



PLOT TIME: 6/29/2018 5:35 AM MOD TIME: 6/29/2018 5:35 AM USER: Tim Pc DWG: C:\Drafting\Stericycle\TWAAFA Fig 39 Lead Deep.dwg

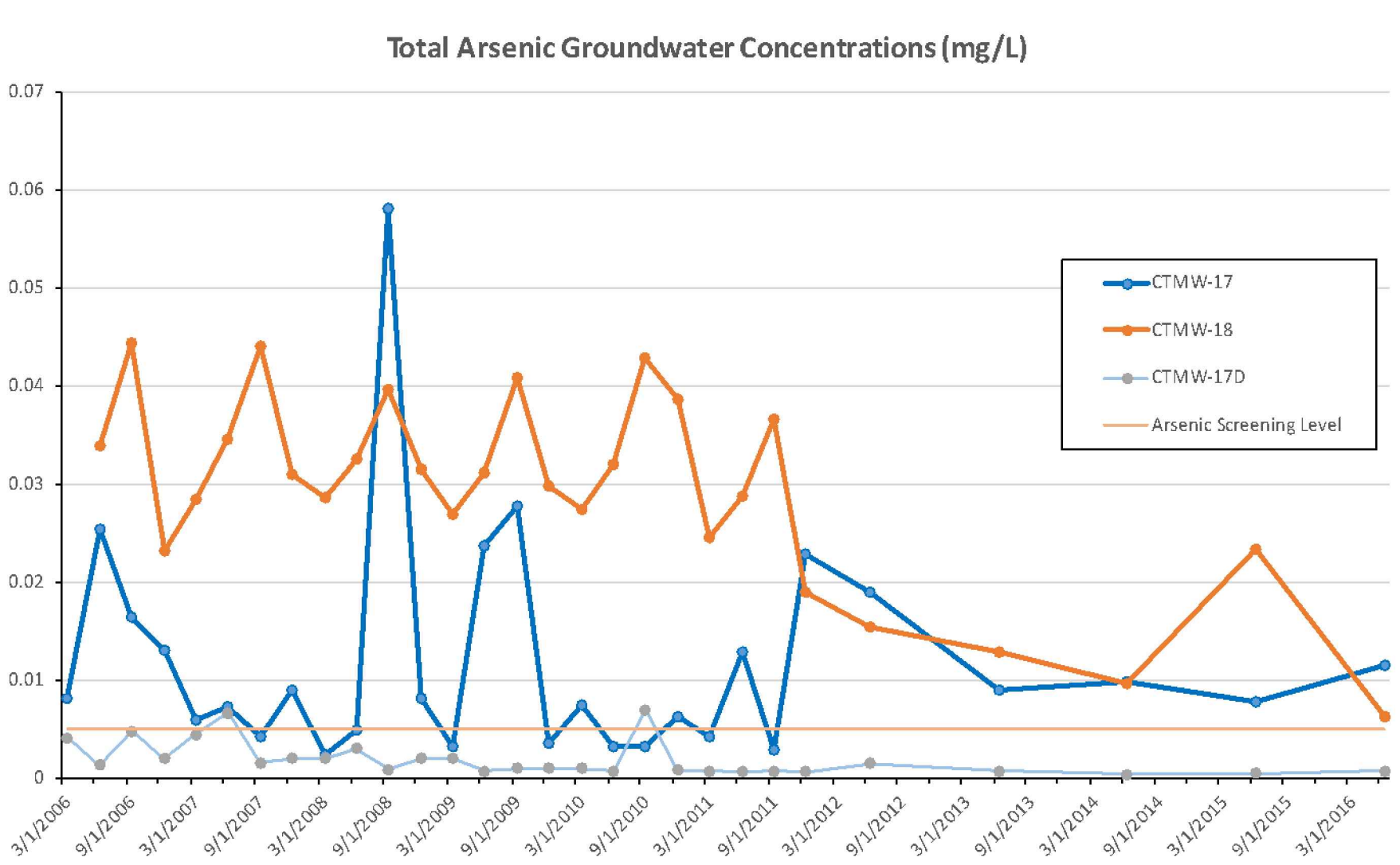
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Lead Concentrations Deep Groundwater

DALTON OLMSTED FUGLEVAND

FIGURE 47

January 18, 2019



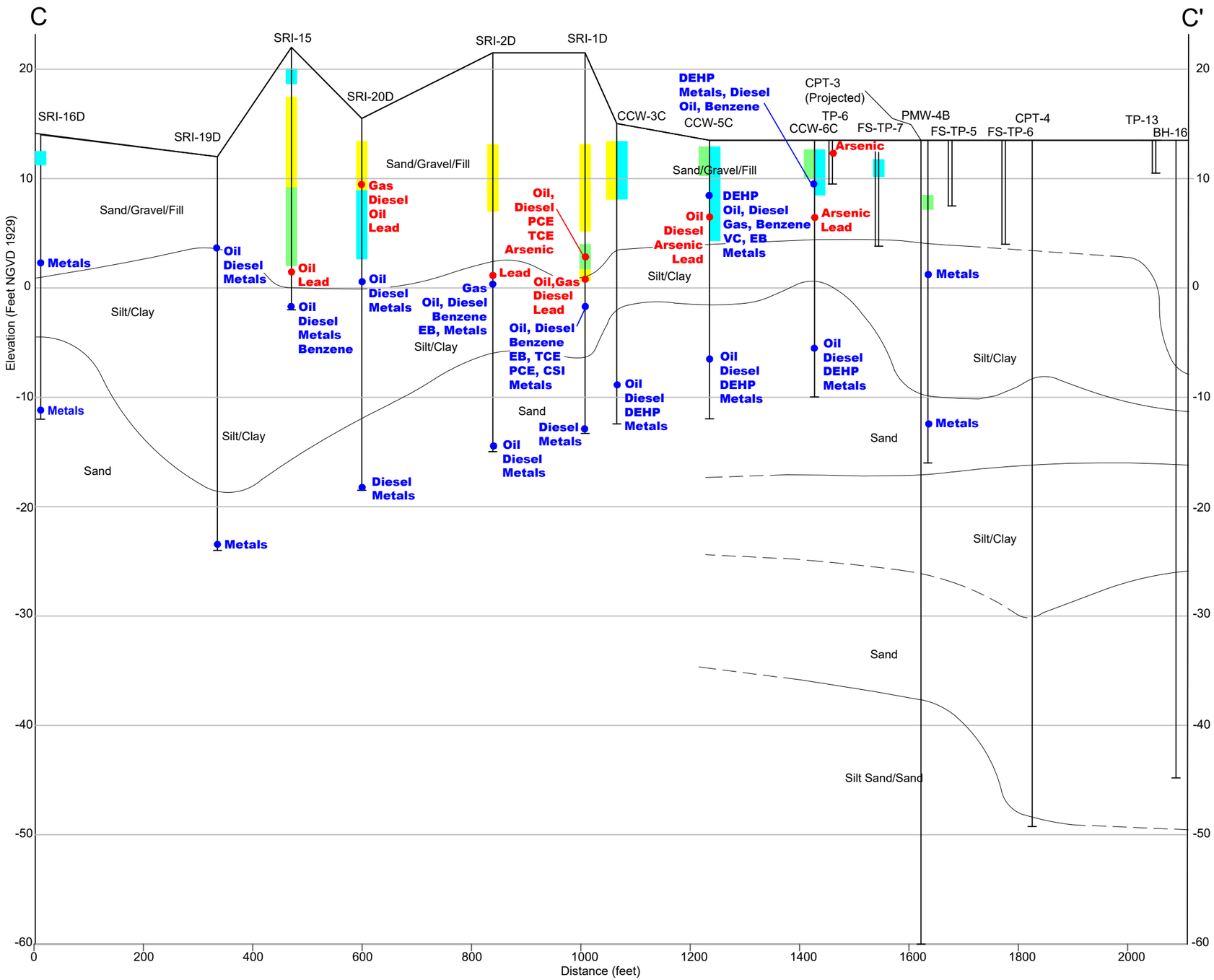
TWAAFA Site
Tacoma, Washington
Data Gaps Work Plan

Total Arsenic Groundwater Concentrations (mg/L)

DALTON OLMSTED FUGLEVAND

FIGURE 48

January 18, 2019



Legend

- MW-2 — Existing Monitoring Well
- TP-3 — Test Pit
- Estimated Lithologic Contact (Dashed where inferred)
- Soil Sample Location with Detection above Screening Level (See Data Table for Concentrations)
- Groundwater Sample Location with Detection Above Screening Level (See Tables for Concentrations)

EB	Ethylbenzene
VC	Vinyl Chloride
CIS	1,2-Dichloroethene
TCE	Trichloroethene
PCE	Tetrachloroethene

Fill Materials Observed

- Lime
- Wood
- Autofill

DRAFT

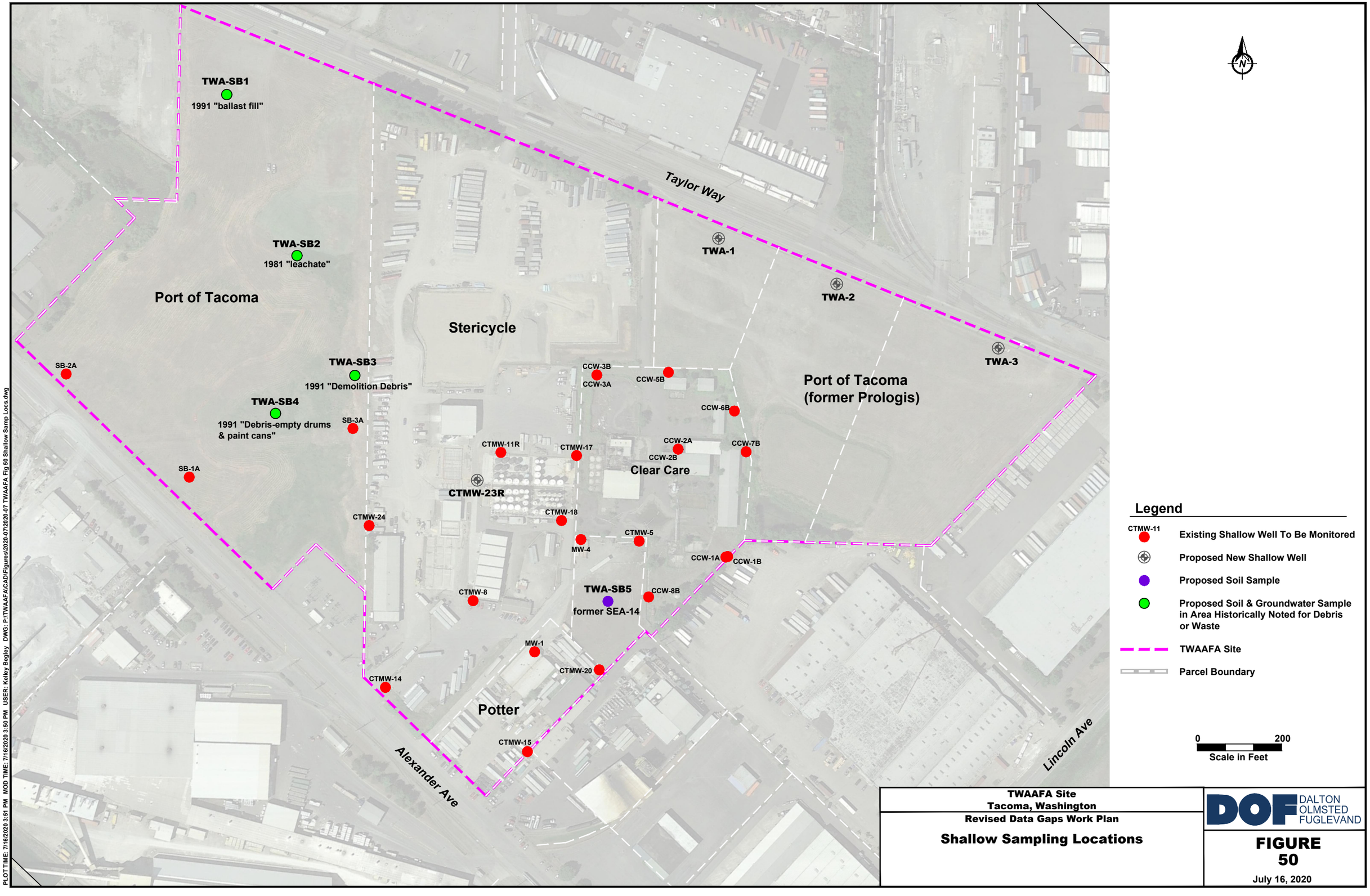
Scale in Feet: 0, 200; 10, 0

TWAAFA Site
Tacoma, Washington
Data Gpas Work Plan

Cross Section C-C'
With Fill and Contaminant Information

DALTON OLMSTED FUGLEVAND

FIGURE 49
January 18, 2019



PLOT TIME: 7/16/2020 3:51 PM MOD TIME: 7/16/2020 3:50 PM USER: Kelley Begley DWG: P:\TWAAFA\CADD\Figures\2020-07\2020-07 TWAAFA Fig 50 Shallow Samp Locs.dwg

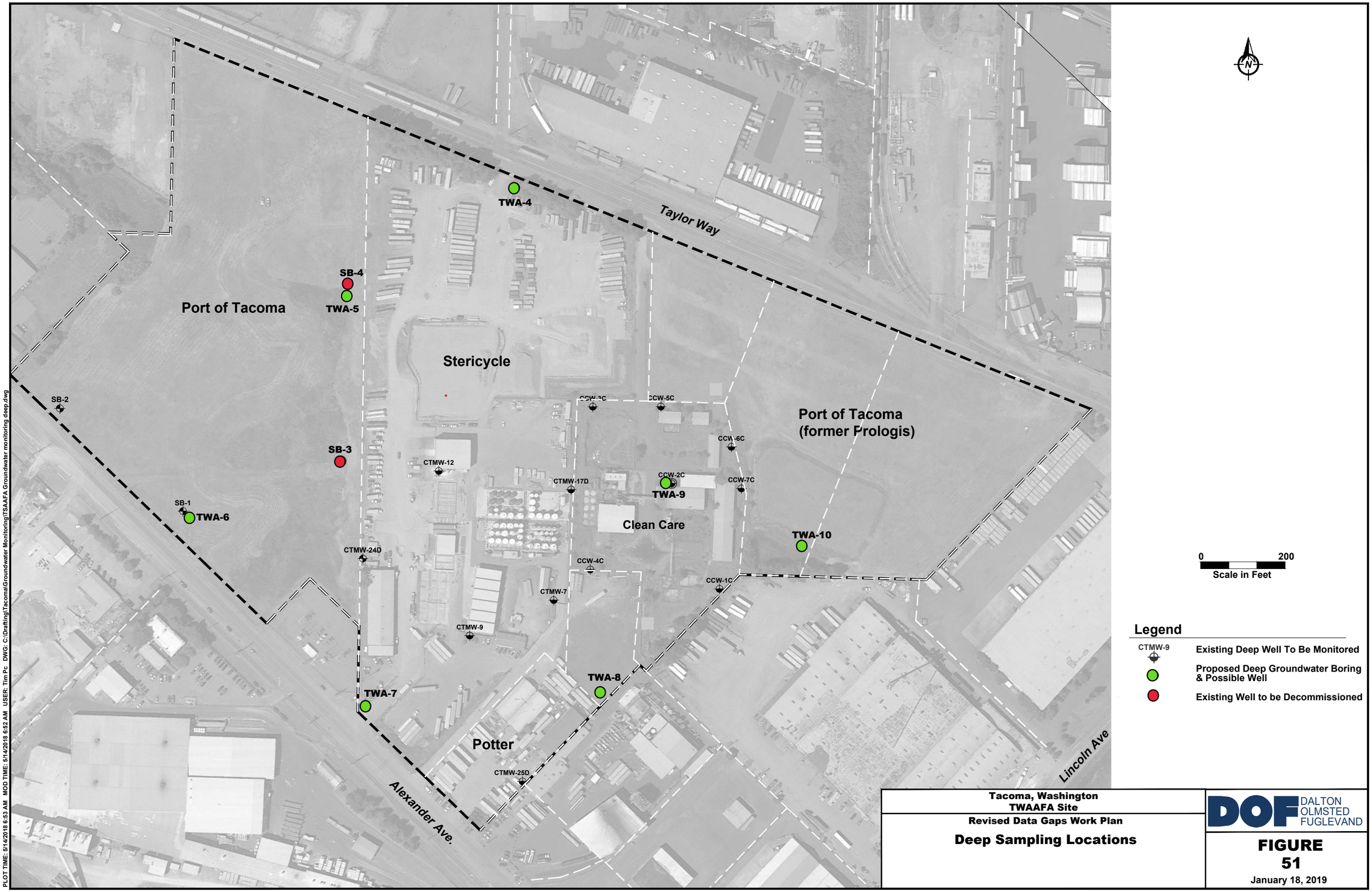
TWAAFA Site
Tacoma, Washington
Revised Data Gaps Work Plan

Shallow Sampling Locations

DALTON OLMSTED FUGLEVAND

FIGURE 50

July 16, 2020



PLOT TIME: 5/14/2018 6:53 AM MOD TIME: 5/14/2018 6:52 AM USER: Tim Pc DWG: C:\Drafting\Tacoma\Groundwater Monitoring\TSAAFA Groundwater monitoring deep.dwg

Tacoma, Washington
TWAAFA Site
Revised Data Gaps Work Plan

Deep Sampling Locations

DALTON OLMSTED FUGLEVAND

FIGURE 51

January 18, 2019