

**SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT – PHASE 1
CHEVRON SERVICE STATION NO. 9-6590
232 East Woodin Avenue
Chelan, Washington**

December 14, 2015

**Prepared for:
Washington State Department of Ecology
Toxics Cleanup Program / Central Regional Office
1250 West Alder Street
Union Gap, Washington 98903**

**Prepared by:
Leidos Engineering, LLC
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011**

**On Behalf of:
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, California 94583**

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SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT– PHASE 1 CHEVRON SERVICE STATION NO. 9-6590

1. INTRODUCTION AND OBJECTIVES

Leidos Engineering, LLC (Leidos), on behalf of Chevron Environmental Management Company (Chevron), prepared this report to summarize the results of the first phase of supplemental remedial investigation activities performed at Chevron Service Station #9-6590 (the Site), located at 232 East Woodin Avenue in Chelan, Washington (Figure 1). This work was performed pursuant to the terms of Agreed Order No. DE 10629, which was entered into by Chevron and the Washington State Department of Ecology (Ecology) in June 2014, and which includes the requirement to complete a Supplemental Remedial Investigation (SRI) for the Site.

The objectives of the SRI are to confirm protection of receptors, update the conceptual site model, and to provide information to design a workable remedy for the Site. Per the path forward strategy that was recently agreed upon by Chevron and Ecology (Ecology, 2015b), the SRI will be completed in a two-phase process in order to facilitate early data collection and evaluation for several tasks, which will allow the data to be used for decision making for a second phase of SRI activities.

The first phase of the SRI included the following components, as proposed in the “Supplemental Remedial Investigation Work Plan – Phase 1” (the Phase 1 SRI Work Plan), which was prepared by Leidos (Leidos, 2015), and approved by Ecology in May 2015:

- A Tier 2 vapor intrusion assessment to evaluate risks associated with the potential migration of petroleum vapors to indoor air in the vicinity of the Site;
- Monitoring and evaluation of groundwater contaminants and additional attenuation parameters to determine the feasibility of monitored natural attenuation (MNA) as a remedial action component; and
- A short-duration assessment of light non-aqueous phase liquid (LNAPL) mobility and recoverability.

Data collected from the first phase of SRI activities will be used to supplement the results of previous remedial investigation activities performed at the Site, which were summarized in the 2006 Remedial Investigation/Feasibility Study Report (SAIC, 2006), as well as the results of ongoing site monitoring, which have been documented in subsequent reports. Collectively, these data will be used to:

- Identify data gaps regarding the nature and extent of petroleum contamination at the Site;
- Develop a preliminary list of cleanup action alternatives to be evaluated in a future Supplemental Feasibility Study (SFS); and
- Determine whether additional Site data are necessary to facilitate evaluation of the preliminary cleanup action alternatives identified for the Site.

This information will be incorporated into a future work plan for the next phase of SRI activities, which will be used to complete the SRI process and a future SFS for the Site.

2. VAPOR INTRUSION ASSESSMENT

2.1 BACKGROUND

Vapor intrusion is a process by which volatile hazardous substances present in soil and/or groundwater can migrate from the subsurface to the indoor air of buildings located in the vicinity of the contamination. Because vapor intrusion can potentially lead to unacceptable indoor air exposures to contaminants released into the environment, Ecology expects that remedial investigations will include a vapor intrusion assessment whenever volatile hazardous substances are present in the subsurface at a site.

As described in the 2006 RI/FS Report, SAIC installed 13 soil vapor monitoring wells and performed a single round of soil-vapor sampling in June/July 2003 in order to assess the potential for a vapor intrusion exposure pathway at the Site. One soil vapor sample was also collected from a dry 2-inch diameter monitoring well (MW-33). Sample collection and data evaluation methods were consistent with generally accepted professional practices of that time. Vapor sampling results were modeled with location-specific input parameters using the Johnson and Ettinger Model, which predicted that conditions at the Site would not result in impacts to indoor air that would be a health risk to employees working in the vicinity. Results and conclusions of the 2003 vapor intrusion assessment were accepted by Ecology, as indicated by their January 2007 approval of the 2006 RI/FS.

Since 2003, vapor intrusion assessment methodologies have evolved significantly, and in 2009 Ecology issued specific guidance for evaluating soil vapor intrusion in Washington State (Ecology, 2009). However, this guidance remains in draft form to date. Due to the changes in best practices for soil vapor intrusion assessment, Chevron and Ecology agreed that additional vapor intrusion assessment was warranted in order to evaluate future cleanup remedies for the Site.

Within the tiered vapor intrusion assessment process that is recommended by Ecology's draft guidance, the soil vapor sampling performed by SAIC in 2003 is consistent with a Tier 1 vapor intrusion assessment. Although modeling results performed at that time indicated that vapor intrusion was not an exposure pathway of concern, soil vapor sampling results from the 2003 sampling event do indicate that benzene, toluene, and ethylbenzene were detected at concentrations exceeding Ecology's current draft Method B soil gas screening levels. Therefore, the next phase of vapor intrusion evaluation warranted for the Site is a Tier 2 assessment.

2.2 TIER 2 ASSESSMENT PLANNING

The objective of a Tier 2 vapor intrusion assessment is to determine whether the presence of volatile hazardous substances in soil and/or groundwater at a site is resulting in unacceptable concentrations of those substances in the indoor air of existing buildings in the vicinity of that site. To accomplish this, buildings near the site that are considered to be potentially at risk for vapor intrusion are identified, and sampling is conducted to evaluate whether vapor intrusion is impacting indoor air quality within those buildings. Samples collected typically include indoor air, outdoor (ambient) air, and sub-slab soil vapor, which is the air present between soil particles, or other granular material, underlying the bottom floor of a building. The results of these samples can then be evaluated together to determine whether volatile hazardous substances are present in indoor air, and if so, whether the presence of those substances is likely due to vapor intrusion.

In performing a Tier 2 assessment, it is typical to begin assessment efforts at buildings constructed with subgrade basement areas for the following reasons:

- Subgrade areas are generally closer in vertical proximity to subsurface contamination.
- Subgrade basement foundations may restrict oxygen diffusion to the vadose zone and therefore limit aerobic biodegradation. Several empirical studies demonstrate that where open soil is present, such as a crawlspace, oxygen diffusion into the vadose zone prevents flux of biodegradable petroleum hydrocarbons to the surface (Abreu and Johnson, 2006; Davis, 2009; Lavis et al., 2013; and Roggemans et al., 2001).
- Basements (unlike crawlspaces) are typically large enough to be potentially occupied for long-term exposure periods.

Based on evaluation of currently available petroleum-range contamination distribution data for the Chelan Chevron site, as well as previously gathered information regarding the construction of buildings within this area of concern, the following 13 properties were initially identified for further evaluation as potential sampling locations for the Tier 2 assessment (Figure 1):

- 233 East Wapato Avenue¹
- 222 East Woodin Avenue
- 216 East Woodin Avenue
- 212 East Woodin Avenue
- 209 East Woodin Avenue
- 208 East Woodin Avenue
- 206 East Woodin Avenue
- 205 East Woodin Avenue
- 204 East Woodin Avenue
- 113 South Emerson Street
- 146 East Woodin Avenue²
- 142 East Woodin Avenue
- 140 East Woodin Avenue

The list of properties suggested for further evaluation was presented to Ecology in a draft work plan prepared by SAIC, which was submitted to Ecology in June 2013 (SAIC, 2013). By letter dated July 23, 2013 (Ecology, 2013), Ecology accepted the list of proposed properties, but also recommended inclusion of at least one sampling location with a dirt-floored basement.

2.2.1 Preliminary Evaluation and Selection of Sampling Locations

In January 2014, Chevron contacted the owners of each of the above-referenced properties by letter to provide notice that their property had been identified as a potential sampling location for the Tier 2 assessment. Between March 4 and 5, 2014, Chevron representatives met with the property owners (or their representatives) for 10 of the 13 properties to discuss the proposed assessment and to conduct an initial physical inspection of the property and interior building spaces. This work is documented in the “Preliminary Evaluation of Sampling Locations for Tier 2 Vapor Intrusion Assessment” (Leidos, 2014), which was submitted to Ecology on June 23,

¹ This property was incorrectly referred to as 233 Sanders Street in SAIC’s June 12, 2013 “Supplemental Site Assessment Work Plan.”

² This property was previously referred to as 108 South Emerson Street in SAIC’s June 12, 2013 “Supplemental Site Assessment Work Plan.”

2014. By email dated June 30, 2014 (Ecology, 2014a), Ecology approved selection of the following eight property locations for the Tier 2 assessment:

- 233 East Wapato Avenue
- 222 East Woodin Avenue
- 212 East Woodin Avenue
- 206 East Woodin Avenue
- 204 East Woodin Avenue³
- 113 South Emerson Street
- 146 East Woodin Avenue
- 140 East Woodin Avenue

In August 2014, Chevron was also able to make contact with new owners of the property at 216 East Woodin Avenue. Based on the planned future use of that building, which included installation of office spaces in the basement area that would normally be occupied during a standard work day, this property was also added as a sampling location for the Tier 2 assessment.

2.2.2 Sub-Slab Soil Vapor Sampling Probe Construction

Installation of the sub-slab soil vapor sampling probes was performed during field events completed in December 2014 and March 2015, following conditional approval by Ecology (Ecology, 2014b and 2015a). The installation work was divided between two field events due to access agreement negotiations that were still on-going for several properties at the time of the December 2014 field event.

The first installation event was performed between December 2 and 4, 2014 and consisted of probe installation at the following locations:

- 233 East Wapato Avenue
- 216 East Woodin Avenue
- 212 East Woodin Avenue
- 146 East Woodin Avenue
- 140 East Woodin Avenue

The second installation event was performed between March 18 and 20, 2015 and consisted of probe installation at each of the remaining locations:

- 222 East Woodin Avenue
- 206 East Woodin Avenue
- 204 East Woodin Avenue
- 113 South Emerson Street

Prior to construction of each probe, a utility locating survey was performed at each location using ground penetrating radar and electromagnetic line locating methods to determine whether subgrade utilities or other infrastructure were present in the vicinity of the proposed locations. Utility locating services for each installation event were performed by Geophysical Survey LLC of Kennewick, Washington.

Following clearance of each probe location, Leidos personnel used a rotary hammer drill to bore a 1-inch diameter hole partially through the concrete floor slab (approximately 1-1/2 inches deep). A 3/8-inch diameter hole was then bored, from the center of the initial boring, through the

³ For the purpose of this document, this sampling location also includes the subgrade area located immediately west of the Chelan Museum building, which is located within the City of Chelan right-of-way for South Emerson Street.

slab to a depth of approximately 3 inches into the sub-grade material. Advancing the smaller diameter hole into the sub-grade material was performed to create an open cavity beneath the probe to minimize the potential for the probe to become obstructed by small pieces of the sub-grade material.

Following completion of each boring, a preassembled sampling probe was permanently installed at each location. The sampling probes consist of a stainless steel Swagelok[®] fitting (¼-inch Swagelok[®] tube fitting x ¼-inch female NPT [National Pipe Thread]) that were fitted with a short length of ¼-inch outside diameter (O.D.) nylon tubing. During installation, the female pipe thread side of each probe was sealed with a stainless steel pipe plug wrapped in PTFE thread seal tape. The sampling probes were then sealed in the boring using quick-drying Portland cement, which was hydrated with deionized water. After allowing the cement seal to cure for approximately 24 hours, each probe was fitted with a threaded tamper-resistant cap, which was sealed with PTFE thread seal tape.

A cross-section showing typical construction of the sub-slab soil vapor sampling probes is shown on Figure 2. Sub-slab soil vapor sampling probe locations for each property are shown in Figures 3 through 11.

2.3 TIER 2 ASSESSMENT SAMPLING EVENT – JUNE 2015

2.3.1 Sampling Event Scheduling

Leidos began plans to implement the first round of Tier 2 assessment sampling following Ecology approval of the Phase 1 SRI Work Plan on May 14, 2015 (Ecology, 2015c). Scheduling of the sampling event was dependent upon property access, availability of staff and equipment resources, and weather conditions. In order to minimize the potential effects of variable meteorological conditions on the sampling results, Leidos attempted to schedule the sampling event during a period in which weather conditions were predicted to be generally stable throughout the anticipated duration of the sampling event (approximately five days). The first round of sampling for the Tier 2 assessment was performed between June 21, and June 26, 2015.

2.3.2 Presampling Building Surveys

Based on the preliminary inspections conducted at most properties in March 2014, as well as observations made during installation of sub-slab sampling probes, it is known that many of the basement locations sampled have been, or are currently, used to store a variety of common consumer products (e.g., paints and cleaning supplies) that may contain the same volatile organic compounds (VOCs) as those that are normally associated with petroleum releases (e.g., benzene, toluene, ethylbenzene, xylenes, and naphthalene). The use of these products is common in residences and commercial buildings and generally results in the presence of “background” levels of these compounds in indoor air, which is not attributable to vapor intrusion from a subsurface source. In an effort to minimize the potential effects of these background contaminant sources, Chevron supplied each property owner with a list of common consumer products known to contain petroleum-range hydrocarbons, and requested that the property owners remove these products from the sampling area at least 48 hours prior to the start of any sampling event.

In addition, prior to any vapor intrusion assessment sampling, Leidos personnel conducted presampling surveys to document the presence of any potential background contaminant sources

remaining in the buildings. The presampling building surveys were completed by Leidos personnel on June 22, 2015. Presampling surveys consisted of a visual inspection of each sampling area to determine whether any materials were present that may serve as background sources for VOC vapors. A parts-per-billion (ppb) range photo-ionization detector (PID) and lower-explosive limit (LEL) meter were used collect field measurements of background air quality in the sampling areas and also to assist in locating potential background contaminant sources. Results of the presampling building surveys and descriptions of each sampling location are presented in the following subsections.

233 East Wapato Avenue – Chelan Auto Parts Inc.

The sampling location is a small unfinished concrete-floored basement (approximately 320 square feet) that underlies the northwest portion of the building at this property (Figure 3). The basement area is accessed by stairs beginning inside an exterior door. The area appears to have no direct connection to the normally occupied areas of the store, and no evidence of active ventilation of the space (e.g., ventilation inlet or outlet ducts) was observed. The basement area is primarily used for storage of business records and surplus office equipment. According to the property owner, the area is typically closed and is rarely accessed by store personnel. Photographs of the property are included in Appendix A (Photos 1 - 8).

During the presampling survey at this location, PID readings of general indoor air ranged from approximately 70 to 130 ppb (compared to 0 ppb for background outdoor air). *(Due to the low-range sensitivity of the PID used, PID measurements may have been influenced by temperature and humidity changes throughout the day as the sampling crew moved in and out of buildings and/or climate controlled spaces. Therefore, low-range readings [approximately 500 ppb or less] may not be a positive confirmation of VOCs in indoor air.)* Leidos personnel did not identify any specific items in the sampling space that were considered to be potential background VOC sources. LEL readings within the sampling space were 0 percent.

222 East Woodin Avenue – Wells Fargo Bank

The sampling area is a partial basement (approximately 2,400 square feet) underlying the north and central portion of the bank building footprint (Figure 4). The basement includes a kitchen/employee break room, mechanical room, records vault, rest rooms, and several rooms used for storage. Cleaning products represent a fairly significant portion of the stored items. The area is mechanically ventilated and a stairwell from the central portion of the bank is generally maintained open to the floor above. With the exception of the mechanical room, all areas of the basement are finished. The mechanical room door is normally closed and locked. Based on communication with Wells Fargo representatives, Leidos understands that the basement area is used on an infrequent basis throughout the day by bank employees. Photographs of the property are included in Appendix A (Photos 9 – 16).

Results of the presampling survey at this location indicate low-level measurements (typically less than 100 ppb) by the PID throughout the basement area. The highest PID reading (1,733 ppb) was measured in a box containing cleaning wipes that was located in the storage room in the southwest corner of the basement. LEL readings throughout the basement were consistently 0 percent.

216 East Woodin Avenue – Lake Chelan Chamber of Commerce

The sampling area is the subgrade office space of the Lake Chelan Chamber of Commerce Visitor Center (Figure 5). Renovation of the building for use by the Chamber of Commerce was completed in 2015. The subgrade portion of the building is approximately 4,000 square feet. The northern portion of this space consists of a large central hallway that is flanked by offices and conference room spaces to either side. At the northern end of this hallway is a mechanical closet where the building HVAC unit is located. Sub-slab soil vapor sampling probe SSVP-04 is also located in this closet. In the central portion of the basement area a wide stairwell allows access to/from the main floor. The stairwell is open, which allows air movement between the floors. The entire space is also actively ventilated. A kitchen area, restroom, and storage room are located in the southern portion of the basement. The storage room is separated from the office portion of the basement by a door that is typically closed. This area is used to store a wide variety of surplus materials. Sub-slab soil vapor sampling probe SSVP-0 is located in this portion of the building. Photographs of the property are included in Appendix A (Photos 17 – 23).

During the presampling survey at this location, Leidos personnel noted a pervasive odor of new construction materials throughout the space. PID readings were approximately 70 ppb on the main floor of the building and increased to approximately 100 ppb in the office portion of the basement. Further increases (up to approximately 280 ppb) were observed in the basement storage room and in several utility closets located in the southern portion of the basement. This is likely due to a lack of active ventilation in these areas. Elevated PID readings of up to 500 ppb were also observed in measurements made inside rolled up posters in the storage room (Photo 20). These posters appeared to be constructed of vinyl or a similar material. LEL readings throughout the basement were consistently 0 percent. Due to the large number of posters present in the storage room and the generally pervasive odor of new construction materials throughout the sampling space, Leidos personnel did not request to have any materials or supplies moved from the space prior to sampling.

212 East Woodin Avenue – Memories by the Lake Gift Shop and Re/Max Realty

The sampling area is a partial basement (approximately 1,100 square feet) underlying the southern portion of the building (Figure 6). The basement is the location for building mechanical systems, such as the hot water heater and electric furnace units, and was formerly used for storage by the gift shop owner. However, at the time of vapor intrusion assessment field work, the gift shop was in the process of permanently closing and the basement area was mostly empty. The basement area does not appear to be mechanically ventilated.

Access to the basement is by a stairwell located at the back of the gift shop. In the past, the door at the top of the stairwell was normally closed and the basement was not accessed on a frequent basis. However, future use of the basement area by the new property owners is unknown at this time. Photographs of the property are included in Appendix A (Photos 24 – 33).

At the time of the presampling survey, PID readings in the basement were approximately 300 ppb, and LEL meter readings were consistently 0 percent. No specific potential VOC vapor sources were identified in the basement area with the PID; however, multiple containers containing paints, wood finishes, cleaning products, rodent poisons, and wasp/hornet killer spray were observed to be present. These materials were moved to an empty storage room on the upper floor, with the property owner's permission. Highly elevated PID readings were observed

on the upper floor of the building, especially in the vicinity of a restroom that is located in a hallway shared by the gift shop and realty office. These readings appeared to result from cleaning products used in the bathroom, which included an automatic spray air freshener (some of which are known to contain petroleum solvent). A PID reading of approximately 16,000 ppb was recorded in this area. In response to this observation, Leidos personnel asked that the two doors located between the hallway and basement area be kept closed in preparation for indoor air sampling at this location.

206 East Woodin Avenue – Whaley’s General Store

The sampling area is an unfinished basement underlying Whaley’s General Store. The basement has a partial concrete floor underlying the northern portion of the building, and a dirt floor to the south (Figure 7). The basement is accessed by a stairway located in the back of the store. Based on discussions with store personnel, the door at the top of the stairs is typically closed to prevent musty basement odors from entering the store space. Due to these odors, the basement is not used for merchandise or other storage; therefore, store personnel typically do not enter the basement space. The area does not appear to be actively ventilated. Photographs of the property are included in Appendix A (Photos 34 – 41).

During the presampling survey at this location, Leidos personnel observed a few tools and cleaning materials present in the space, which are believed to be associated with previous plans to pour a concrete floor in the southern portion of the basement. PID readings within the space generally ranged from 5 to 70 ppb and LEL readings were consistently 0 percent. Leidos personnel did not identify any specific items that were considered to be potential background VOC sources at this location.

204 East Woodin Avenue – Lake Chelan Historical Society

The sampling area is the western portion of the basement area and also includes an adjacent area (within the City of Chelan right-of-way) that lies below the sidewalk east of South Emerson Street (Figure 8). Both areas are used by the Lake Chelan Historical Society for storage of surplus museum display materials. The western and eastern portions of the basement are separated by a masonry dividing wall. The floor elevation in the eastern portion of the basement is approximately 3 feet higher than the floor in the southwestern portion of the basement. The eastern portion of the basement is a museum display area.

The western portion of the basement can be accessed by stairs from the main floor, at the rear of the museum, or by an exterior stairwell from South Emerson Street that enters at the northwest corner of the building. Access doors to this area of the building are generally maintained closed and museum staff use this area on an infrequent basis and typically for short periods of time. The eastern portion of the basement is accessed by an open stairwell located at the northeast corner of the building. Photographs of the property are included in Appendix A (Photos 42 – 50).

During the presampling survey at this location, Leidos personnel noted low-range PID readings (less than 100 ppb) throughout the museum’s basement spaces and LEL readings were consistently 0 percent. Several paint cans were located in the northwest basement storage room and various paints and chemicals were present in a closet located in the northeast portion of the building; however, no elevated PID readings were observed in the vicinity of these materials. Therefore, they were left in place. An above-ground heating oil storage tank, which is no longer

used, is present in the area beneath the sidewalk. It is unknown whether any heating oil or residue remains in the tank. No elevated PID readings were observed in the general vicinity of the tank or near the tank fittings. The basement area appears to be actively ventilated, which was evident when Leidos personnel entered the area below the sidewalk and encountered noticeably warmer and more humid air than the basement space of the museum. Air was also observed to be flowing from the area under the sidewalk into the basement through a small hole in the western foundation wall.

113 South Emerson Street – Andante Restaurant

The sampling area is a partial basement (approximately 600 square feet) with a concrete floor, which underlies the eastern portion of the building at this property (Figure 9). The main area of the basement is used to house two large refrigeration units, the hot water heater, and storage of other miscellaneous items. A storage room, for restaurant equipment and supplies, and wine cellar are located in the western portion of the space. Unsealed openings to the crawlspace beneath the building are located in the southern and western basement walls. Photographs of the property are included in Appendix A (Photos 51 – 62).

The basement area is accessed by stairs along the back wall of the building, which originate in the restaurant's kitchen space. There are no doors present in the stairwell; therefore, the basement space is generally open to the kitchen. No ventilation duct work was observed to be present in the basement space; however, some active ventilation of the space is likely provided by the commercial kitchen fans that are typically operated while the kitchen is in use. According to the property/business owner, restaurant employees access the basement space on an infrequent basis and generally for short periods of time.

During the presampling survey at this location, Leidos observed low-range PID readings (approximately 100 to 200 ppb) within the kitchen and basement space of the building. No highly elevated PID readings were observed that could be used to identify specific potential VOC vapor sources. However, several cans containing solvent based wood finish, paint remover, high temperature aerosol paint, and aerosol brake cleaner were removed by the property owner at the suggestion of Leidos personnel.

146 East Woodin Avenue – Swim World

The sampling area is a partial basement (approximately 600 square feet) that underlies the southern portion of the building footprint (approximately 2,600 square feet) at this property (Figure 10). The basement is constructed with stone foundation walls and a concrete floor. An unsealed opening along the northern basement wall provides access to a crawl space beneath the northern portion of the building. Access to the basement is provided by a stairwell located in the southeast corner of the building. The stairway is accessed through a doorway on the ground floor that is generally maintained closed.

The basement is the location of the building mechanical systems (hot water heater, electric furnace, electrical service panels, etc.) and is used for storage of retail store merchandise and other supplies, including pool chemicals, pool toys, and outdoor furniture. A shelf located adjacent to the stairwell perimeter contained a variety of maintenance products including paints, thinners, wasp and hornet spray, etc. A gasoline can, which appeared to be empty, was also present on one of the basement shelves. Photographs of the property are included in Appendix A (Photos 63 – 72).

During the presampling survey at this location, Leidos noted the location of an active air supply duct that was blowing cool dry air into the basement; therefore, the space appears to be actively ventilated during at least some times of the year. PID readings throughout the basement were generally low (typically less than 100 ppb). The highest measurement recorded was 150 ppb in the vicinity of a pipe penetration through the southern foundation wall. LEL monitor readings were consistently 0 percent. Air monitoring results did not identify any background VOC sources to be considered for relocation prior to the sampling event.

140 East Woodin Avenue – The Shirt Shop

The sampling area is an unfinished basement (approximately 2,600 square feet) that generally underlies the building footprint of the Shirt Shop clothing store (Figure 11). The floor is primarily concrete; however, an area of approximately 900 square feet located in the northern portion of the basement has a dirt floor. Foundation walls are stone, except for the northern basement wall, which appears to be poured concrete. The area is accessed from a stairway at the rear portion of the Shirt Shop. A door at the bottom of the stairway is normally kept closed.

The basement is the location of building mechanical systems (heating/cooling unit, hot water heater, and plumbing drains). The area is also used for storage of a variety of surplus objects. The area is not used for storage of retail store merchandise; therefore, store employees rarely need to access this space. It does not appear to be actively ventilated. Photographs of the property are included in Appendix A (Photos 73 – 81).

During the presampling survey at this location, Leidos personnel noted low-range PID readings (approximately 50 ppb) throughout the basement and LEL readings were consistently 0 percent. However, petroleum-like odor was noted near an inactive heating oil tank located in the southeast corner of the basement. The tank is currently covered with plastic sheeting and it is unknown whether any heating oil or residue remains in the tank. PID readings in the vicinity of the tank were approximately 150 ppb, but increased to approximately 5,000 ppb when the PID inlet probe was placed beneath the plastic sheeting cover on the tank. Air monitoring results did not identify any background VOC sources, except for the heating oil tank which could not be moved. Therefore, no materials were removed from the basement prior to the sampling event.

2.3.3 Indoor and Outdoor Air Sample Collection

Indoor air sampling is conducted as part of a Tier 2 vapor intrusion assessment in order to determine whether volatile hazardous substances present in the soil and/or groundwater at a cleanup site are also present in the indoor air of existing buildings located nearby. Outdoor air sampling is also performed at the same time in order to determine whether outdoor air quality conditions may be impacting indoor air quality in the vicinity.

For this assessment, indoor air and outdoor air samples were collected in 6-liter stainless steel vacuum canisters (Summa canisters), which were supplied by the subcontracted laboratory, Eurofins Air Toxics, Inc. (Air Toxics) of Folsom, California. Each canister was individually certified by the laboratory as clean for the compounds to be tested for the assessment.

To collect a sample, a canister is first fitted with a flow control device that is calibrated to provide the desired flow rate for collection of the sample. A “sampling cane” inlet fitting is connected to the inlet of the flow controller, which extends the sample collection inlet of the unit to a height within the breathing zone range of an adult human (Photo 6). The sampling unit is then placed in the desired sampling location and a valve on the sampling canister is opened,

which causes the canister to draw in a sample of the surrounding air due to the vacuum in the canister. The sampling canister remains in place for the duration of the desired sampling period (typically 8 to 24 hours). For commercial building spaces, such as those included in this assessment, indoor air samples are typically collected over an 8-hour time period, in order to be representative of daily inhalation exposure conditions for workers during a standard workday.

Indoor sampling locations are shown in Figures 3 through 11 for each of the properties included in the assessment, and all indoor and outdoor air sampling locations are shown on Figure 12. Due to the logistical challenges associated with collecting a relatively large number of long duration samples from multiple business locations, and in order to maximize the comparability of sample results, Leidos elected to collect all of the indoor and outdoor air samples during a single day, Tuesday, June 23, 2015. Outdoor air samples were collected over an approximate 12-hour sampling period in order to span the sampling duration for all of the indoor air samples.

Sample collection activities began with set-up and deployment of the outdoor air sampling canisters. Initial sampling canister vacuum was first measured and recorded in the project logbook, and the flow controller and sampling cane connections were secured. Due to the light-variable wind conditions observed leading up to and immediately prior to the outdoor sampling, Leidos personnel placed outdoor air sampling canisters in multiple locations throughout the Site to account for the lack of a clearly defined upwind location. Outdoor air sampling locations are shown on Figure 12 and in Photos 82 – 86. Collection of each outdoor air sample was started between 06:56 and 07:08 am.

Following the start of the outdoor air sample collection, Leidos completed setup and deployment of the indoor air sampling canisters based on a building access schedule previously arranged with the property owners. At each location, the sampling canister was placed in the sampling area and the sample start time was recorded in the project logbook. Leidos personnel then left the premises, after ensuring that access doors were returned to their normal operating position (either open or closed). Collection of indoor air samples was started between 07:34 and 09:45 am.

After the start of sampling, indoor and outdoor samples were generally left unattended. However, Leidos personnel frequently checked the outdoor air samples from a distance (to ensure their security) and also checked all of the samples on a routine basis to ensure that the canisters were filling at the approximate rates expected. The time of each check and corresponding canister vacuum were recorded in the project logbook.

At the end of the 8 hour sampling period for each indoor air sample, Leidos personnel closed the valve on each canister and recorded the time and final canister vacuum in the project logbook. Sample end times for the indoor air samples were between 3:57 pm and 6:03 pm. Outdoor air samples were shut-off between 7:02 pm and 7:18 pm. Following pickup of the containers, the sampling canes and flow controllers were removed and each canister was fitted with a Swagelok[®] cap fitting in preparation for return shipment to Air Toxics for laboratory analysis.

2.3.4 Sub-Slab Soil Vapor Sample Collection

Sub-slab soil vapor samples are collected as a component of a Tier 2 assessment in order to determine whether volatile hazardous substances impacting soil or groundwater at a site are also present in soil vapor beneath existing buildings, and if so, whether concentrations of these compounds are sufficient to impact indoor air quality within the buildings. To complete this portion of the assessment, Leidos collected samples from each of the 14 sub-slab soil vapor

sampling probes described in Section 2.2.2. Sub-slab soil vapor sampling was performed June 24 through 25, 2015.

As described in Section 2.2.2, a sub-slab soil vapor sampling probe is essentially a small diameter hole through a concrete floor slab, which is normally sealed with a tamper-resistant cap. Samples of soil vapor from beneath the floor slab are collected by connecting a vacuum sampling canister to the probe and then opening the canister to draw in a sample from beneath the slab. In practice, however, the sample collection procedure involves several additional steps to ensure quality assurance and quality control (QA/QC) of the sampling results.

The sub-slab soil vapor samples were collected in 1-liter Summa canisters supplied by Air Toxics. Each canister was individually certified by the laboratory as clean for the compounds to be tested for the assessment. Immediately prior to its use, the initial vacuum of each canister was measured to verify that the container had not leaked or been inadvertently opened prior to sampling. The initial vacuum reading was recorded on the canister's identification tag and on the field data form for that sampling location.

After the initial vacuum check, canisters were fitted with a sampling/purging manifold. The manifold allows the sampling container to be connected to the sub-slab soil vapor sampling probe and to another vacuum canister that is used to purge the sampling probe and tubing. Each manifold was also equipped with an inlet filter and flow controller that limits sample collection flow to a rate of less than 200 milliliter per minute, as well as vacuum gauges on either side of the flow controller. When necessary, the manifolds were also configured to allow simultaneous collection of a duplicate sample in a second Summa canister. Figure 13 shows the typical configuration of sampling equipment for collection of sub-slab soil vapor samples.

Following installation of the sampling/purging manifold, Leidos personnel conducted a “shut-in” test to check for potential leaks in the sampling canister and manifold connections. The shut-in test was performed by capping the inlet fitting of the manifold and then applying vacuum to the manifold by briefly opening the purge canister. Applied vacuum from the purge canister was shut off after readings on both of the vacuum gauges stabilized, and then vacuum readings were monitored for a period of at least five minutes. If vacuum levels do not remain stable over this period, it is an indicator that one or more of the manifold connections has leaked. In these cases, Leidos personnel checked and retightened each of the manifold connections until a subsequent shut-in test indicated no leaks. If equipment was unable to pass a shut-in test it was not used for sample collection. Shut-in test results were recorded on the field data form for each sampling location.

After completion of the shut-in test, the sampling manifold and canister were connected to the sub-slab soil vapor sampling probe to be sampled using a short section of ¼-inch O.D. nylon tubing with Swagelok® fittings at each end. The sampling probe location and all equipment were then covered with a PVC frame and large polyethylene bag to create a shroud around the sampling equipment (Photos 7 and 8), which was partially filled with laboratory-grade helium gas (at least 10 percent by volume). The purpose of the helium filled shroud is as a QA/QC check to determine whether soil vapor sampling results have been impacted by leaks of indoor air into the sampling canister. If laboratory analytical results indicate that helium was present in a sample, it is a confirmation that some leakage did occur. Results containing small detections of helium are still considered valid for vapor intrusion assessment; however, detectable

concentrations of helium exceeding 10 percent of the average helium concentration maintained in the shroud should not be used.

Prior to collecting sub-slab soil vapor samples at each location, the sampling probe, tubing, and sampling equipment were purged to remove the “dead air volume” present in the sampling system that would otherwise be drawn into the sample. This step is performed to ensure that each soil vapor sample is representative of the actual soil vapor conditions beneath the building slab. Pre-sample purging consisted of the removal of at least three times the volume of air estimated to be present in the sampling probe, tubing, and manifold connections at each sampling location. Based on the total purge volume estimated, an approximate purge time was calculated using an estimated purge flow rate of 167 milliliters per minute. The purge cycle was then completed by opening the purge canister for the calculated purge time.

Following completion of the purge cycle, Leidos personnel verified that the concentration of helium in the leak detection shroud was at least 10 percent by volume. Helium monitoring in the field was performed with an MGD-2002 multi-gas leak locator. The valve on the sampling canister was then opened to begin sample collection and Leidos personnel recorded the start time, manifold inlet vacuum, sampling canister inlet vacuum, and helium concentration. Subsequent measurements were generally recorded several minutes apart until the sampling canister inlet vacuum dropped to a level of approximately 1 inch of mercury vacuum. At that time, a round of final measurements was recorded and the control valve on the sampling canister was shut. Field data collected during sub-slab soil vapor sampling activities were recorded on field data sheets for each location, which are included in Appendix B.

2.3.5 Quality Assurance / Quality Control Sample Collection

In order to ensure quality assurance and quality control (QA/QC) of sample collection and laboratory methods, the following additional sampling was also performed.

- One equipment blank sample was collected (EB-062915). The QA/QC equipment blank was collected by passing laboratory-certified nitrogen through a representative reproduction of the sampling train used for collection of sub-slab soil vapor samples. This included two lengths of ¼-inch O.D. nylon tubing and the same Swagelok[®] fittings used for construction of, and connection to, the sub-slab soil vapor sampling probes. During collection of the equipment blank sample, all sampling equipment was placed within a leak detection shroud, containing at least 10 percent helium by volume, for the duration of the sample collection.
- Two duplicate samples were collected (Duplicate-062415 and Duplicate-062515). Duplicate samples were collected using a duplicate sampling manifold, which allowed two sample canisters to be filled simultaneously (in a parallel configuration) from the same sampling probe. One duplicate sample was collected during each day of sub-slab soil vapor sampling. Duplicate-062415 was collected with sub-slab soil vapor sample SSVP-12 and Duplicate-062515 was collected with sub-slab soil vapor sample SSVP-06.

2.3.6 Laboratory Analysis and Results

Vapor intrusion assessment samples were submitted to Air Toxics for the following analyses:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tert-butyl ether (MTBE); and naphthalene by Modified EPA Method TO-15 (indoor and outdoor air samples were analyzed in the SIM acquisition mode to achieve lower detection limits for comparison to indoor air cleanup levels); and
- Oxygen, carbon dioxide, methane, nitrogen, and helium by Modified ASTM D-1946.

Complete laboratory analytical reports are included in Appendix C. Please note that two sets of laboratory reports for the TO-15 analyses performed. The first set of reports (dated 7/21/2015) provide results TO-15 and TO-15 SIM analyses reported relative to the reporting limit attained for each compound tested in the samples. The second set of reports (dated 11/20/2015) provide results for the same samples; however, in these reports the results are reported relative to the method detection limit and include estimated values for results that exceeded the method detection limit, but were lower than the reporting limit. Sample results are discussed in the following subsections.

Indoor and Outdoor Air Sampling Results

Indoor and outdoor air sampling results are presented in Table 1, in comparison to former and recently revised MTCMA Method B cleanup levels for indoor air (Ecology, 2015d). For indoor air, the former and revised cleanup levels are the same for BTEX and MTBE; however, the new cleanup level for naphthalene is nearly 20 times lower (reduced from 1.4 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$] to $0.0735 \mu\text{g}/\text{m}^3$) than the previously approved cleanup level for this compound. At the time that the Phase 1 SRI Work Plan was finalized and approved, and when this sampling was performed, Leidos was not aware of Ecology's recent adoption of a new indoor air cleanup level for naphthalene; therefore, the sample collection and laboratory analytical methods used for indoor and outdoor air samples were not able to provide naphthalene reporting limits low enough to demonstrate compliance with the new standard.

For results of the TO-15 SIM analysis, benzene was detected in each of the four valid outdoor air samples at concentrations exceeding the Method B cleanup level for indoor air. One of the five outdoor air samples (OA-04-062315), which was collected near the flag pole at Riverfront Park, was determined to be invalid based on oxygen and nitrogen results that indicate that the sample was compromised prior to analysis. Benzene was also detected in indoor air at each of the nine properties sampled. Benzene sampling results were in exceedance of the indoor air cleanup level at five of the nine properties.

Toluene, ethylbenzene, and xylenes were detected in all indoor air and outdoor air samples, at concentrations less than their respective indoor air cleanup levels. MTBE was detected in two indoor air samples, at concentrations less than the indoor air cleanup level.

Naphthalene was detected at concentrations exceeding the new indoor air cleanup level in eight of the nine properties sampled, and was also detected in one of the outdoor air samples. In outdoor air sample OA-05-062315 and indoor air sample IA-140-EWA-062315 naphthalene was detected at concentrations less than one-half of reporting limit, which is the sampling canister certification level provided by the laboratory. Therefore, it is possible that these detections are attributable to the presence of trace levels of naphthalene remaining in the sampling canister

from previous use. Naphthalene was not detected in indoor air at one of the properties, and was not detected in three of the four valid outdoor air samples.

Sub-Slab Soil Vapor Sampling Results

Sub-slab sampling results are presented in Table 2, in comparison to former and recently revised MTCB Method B soil gas screening levels. As shown, for most of the compounds tested, the current soil gas screening level has increased, which is based on the use of a revised attenuation factor for calculating the screening level using the indoor air cleanup level. This change resulted in an increase in soil gas screening level values of approximately 3X for most compounds. However, the current soil gas screening level for naphthalene was reduced by a factor of nearly 6X (from 14 $\mu\text{g}/\text{m}^3$ to 2.45 $\mu\text{g}/\text{m}^3$) due to Ecology's recent adoption of a cancer-based indoor air cleanup level for this compound.

Sub-slab sampling results for BTEX and MTBE are in compliance with both former and current Method B soil gas screening levels for these compounds. The concentrations of these compounds detected are generally several orders of magnitude lower than their respective soil gas screening levels.

Naphthalene results for all of sub-slab soil vapor samples are in compliance with the former Method B screening level (14 $\mu\text{g}/\text{m}^3$); however, the sampling results for SSVP-04 (216 East Woodin Avenue) exceed the current soil gas screening level for naphthalene. Naphthalene was detected in one other sub-slab soil vapor sample (SSVP-09-062515), at a concentration less than the Method B soil gas screening level. However, this detection was an estimated value at a concentration less than the sampling canister certification level provided by the laboratory; therefore, it is possible that this detection resulted from the presence of trace levels of naphthalene remaining in the sampling canister from a previous use. Naphthalene was not detected in 14 of the 16 sub-slab soil vapor samples collected.

Results of the Modified ASTM Method D-1946 analyses indicate that oxygen and nitrogen levels in samples of sub-slab soil vapor were generally consistent with outdoor ambient air (approximately 21 percent oxygen and 79 percent nitrogen). Helium was detected in 9 of the 16 sub-slab soil vapor samples collected; however, the concentrations of helium detected in these samples were less than 10 percent of the average helium concentration maintained in the leak detection shroud during collection of these samples. Therefore, these results are still considered acceptable for use as part of the Tier 2 assessment.

QA/QC Sampling Results

Laboratory analytical results for the QA/QC equipment blank sample (EB-062915) indicate that none of the contaminants of concern were detected above their respective reporting level; however, toluene was detected above the method detection limit at an estimated value of 0.30 $\mu\text{g}/\text{m}^3$, which is less than the sampling canister certification level provided by the laboratory. For evaluation of the sub-slab soil vapor sampling data, these results suggest that TO-15 data for sub-slab soil vapor samples were not impacted by sampling equipment or procedures used in the collection of these samples. However, the detection of toluene in this sample is a valuable reminder of the potential for laboratory results to be impacted by trace concentrations of chemicals remaining in sampling canisters from previous use.

As previously discussed, helium was detected in this sample at a concentration of 0.33 percent. The detection of helium in this sample suggests that the detections of helium in 9 of the 16 sub-

slab soil vapor samples may be due to a fitting leak in the sampling train, instead of being the result of cracks or porosity in the floor slabs or issues associated with installation of the sub-slab sampling probes. Based on Leidos' experience with Swagelok® tubing fittings, we believe that the most likely source for a leak in the sampling train is the single ¼-inch NPT fitting that is used to connect the sampling equipment to the top of each sub-slab soil vapor probe.

Analytical results for both of the QA/QC duplicate samples (Duplicate-062415 and Duplicate-062515) indicate good correlation for all analytes compared to their respective partner samples.

2.3.7 Meteorological Data Monitoring

As part of the Tier 2 assessment activities, Leidos monitored local and regional meteorological conditions in order to assess the potential impact of weather conditions on the results of the vapor intrusion assessment sampling. Prior to the start of the sampling event, Leidos installed a temporary weather station (Wireless Vantage Pro® by Davis Instruments) at the service station property, which was used to record local weather data throughout the duration of sampling activities. The weather station was mounted with the anemometer vane and wind cups at a height of approximately 16 feet above the ground surface in order to collect wind speed and direction measurements without interference from the surrounding buildings (Photo 87). During installation, the wind direction vane was calibrated to an approximate bearing using a hand-held compass. Weather data collection was initiated at 4:30 pm on Sunday, June 21, 2015 and readings were collected on a 15 minute monitoring frequency until 9:15 am on Friday, June 26, 2015. During this period, Leidos personnel also routinely checked measurements from the weather station against available data from weather centers located at the Lake Chelan Airport and Pangborn Memorial Airport in Wenatchee.

Raw data output from the temporary weather station is provided in Appendix D along with copies of weather information obtained from the Lake Chelan and Pangborn airports. Select weather data from the temporary weather station are also presented graphically in Figure 14. As these data indicate, weather conditions during the Tier 2 sampling event were generally fair and stable, with minor variability primarily due to diurnal heating and cooling cycles. During the sampling period no precipitation occurred and winds were light and variable at speeds of less than 10 miles per hour. Based on the results of this monitoring, Leidos believes that weather conditions during the Tier 2 assessment sampling event did not result in adverse or otherwise variable environmental conditions that would impact the quality of the data collected or result in conditions that call into question the comparability of data.

2.3.8 Tier 2 Sampling Conclusions and Recommendations

As discussed in Section 2.2, to determine whether vapor intrusion is occurring at a site, sampling results for indoor air, outdoor air, and sub-slab soil vapor sampling are evaluated together to determine whether volatile hazardous substances are present in indoor air, and if so, whether the presence of those substances is likely due to vapor intrusion. For vapor intrusion from a subsurface source to be occurring, the following three conditions must be met at the same time:

1. One or more hazardous substances must be present in indoor air at concentrations greater than those present in outdoor air;
2. One or more hazardous substances must be present in indoor air at concentrations greater than normal chemical background levels; and

3. One or more hazardous substances must be present in sub-slab soil vapor at concentrations significantly greater than those present in indoor air (current guidelines indicate that a typical building floor slab in good condition provides an attenuation factor equivalent to a 33 times reduction in concentration between sub-slab soil vapor and indoor air [USEPA, 2015]).

Based on these criteria, results from the first round of Tier 2 sampling at the Site suggest that vapor intrusion is not occurring at any of the properties sampled.

Sampling results presented in Table 1 indicate that two substances, benzene and naphthalene, were detected in indoor air samples at concentrations exceeding their respective MTCA Method B indoor air cleanup levels. Benzene was detected above the cleanup level in five of the nine indoor air samples collected, and naphthalene was detected above the new cleanup level in eight of the nine indoor air samples collected.

Table 3 presents a summary of all sampling results from the first round of Tier 2 sampling. These data are organized to facilitate comparison of data between each of the sampling locations. As these data indicate, although benzene was detected above the indoor air cleanup level at five indoor air sampling locations, this compound was also detected in each of the four valid outdoor air samples, at concentrations that are generally on the order of those detected in indoor air. Due to the presence of benzene in outdoor ambient air above the regulatory cleanup level, it would also be expected to be present in indoor air since most building ventilation systems do not provide any treatment for removal of volatile vapor-phase substances. Sub-slab sampling results for benzene were generally non-detect or benzene was detected at very low concentrations that were less than the concentration detected in the accompanying indoor air sample. These results were also below the Method B sub-slab soil gas screening level. Based on the comparison of these data, the presence of benzene in indoor air at the properties sampled does not appear to be attributable to vapor intrusion from a subsurface source.

As shown in Table 3, the concentrations of naphthalene detected in the indoor air samples are generally not consistent with the outdoor air sampling results; therefore, the presence of naphthalene in indoor air at these locations does not appear to be the result of background ambient air. Sub-slab sampling results for naphthalene are also generally lower than the indoor air naphthalene results, except for the detection of naphthalene at a concentration of 13 $\mu\text{g}/\text{m}^3$ from the sample collected at SSVP-04 (216 East Woodin Avenue). The cause for this detection is currently not understood; however, based on the Tier 2 assessment data collected to date, it seems unlikely that this result is due to petroleum contamination from the Chevron service station site. Because of the depth at which contamination has been determined to be present in the vicinity of this building (approximately 25 to 30 feet bgs), the concentrations of naphthalene, or any other VOC, detected in sub-slab soil vapor samples would be expected to be relatively uniform. Therefore, the detection of naphthalene at a concentration of 13 $\mu\text{g}/\text{m}^3$ from SSVP-04 is atypical given the non-detect naphthalene result obtained for the sample collected in the same building at SSVP-05, and the non-detect results obtained for the sub-slab soil vapor samples from the nearby properties (222 and 212 East Woodin Avenue). Instead these results suggest the possible existence of a more localized and shallow naphthalene source that would not be related to the Chevron service station site. Based on the sub-slab sampling results for the other properties sampled, the presence of naphthalene in indoor air at those locations is likely due to other indoor sources and not due to the occurrence of vapor intrusion from a subsurface source.

Because VOC sources are numerous and widespread, it is not uncommon to detect benzene and other VOCs in indoor and outdoor air at concentrations that exceed regulatory action levels. The detection of BTEX compounds in outdoor ambient air in the vicinity of the Site is not surprising considering the extent of motor vehicle use in the downtown commercial center of Chelan, and the proximity of several service stations located nearby, which are not equipped with vapor recovery equipment on their dispensers. The following information sources present findings of studies performed on background levels of VOCs in indoor and outdoor air:

- Data published by USEPA indicate that the average benzene concentration in ambient air from 107 monitoring sites across the country ranged from approximately 1.5 to 1.7 $\mu\text{g}/\text{m}^3$ between the years 2000 and 2005 (USEPA, 2008).
- The New York State Department of Health reported, based on their own studies and review in New York and from homes and office buildings across the United States, that the typical concentration of benzene in indoor air of homes and offices is approximately 5 $\mu\text{g}/\text{m}^3$ (NYDOH, 2009).
- As part of a recent study completed by the Montana Department of Environmental Quality (MDEQ), MDEQ concluded that benzene, ethylbenzene, and naphthalene were among six VOCs that may be expected to normally be found above regulatory screening levels in the indoor air of residential homes (MDEQ, 2012).
- A 2013 fact sheet distributed by Health Canada regarding naphthalene in indoor air reports that average naphthalene concentrations in Canadian homes range from 0.3 to 6.3 $\mu\text{g}/\text{m}^3$.

The results from the first round of Tier 2 sampling at the Site are consistent with recent guidance published by the United States Environmental Protection Agency for addressing petroleum vapor intrusion (USEPA, 2015), which recommends use of vertical separation distance screening criteria to assess the need for further investigation of petroleum vapor intrusion. Per this guidance, petroleum vapor intrusion would not be expected in cases where 6 or more feet of clean, biologically active soil is present between the highest vertical extent of a dissolved contaminant source and the lowest point of an overlying building. For an LNAPL contaminant source, petroleum vapor intrusion would not be expected in cases where the vertical separation distance is 15 feet or greater. These recommended separation distances assume that no precluding factors are present, such as the presence of preferential transport pathways, and that the petroleum source is not a high-ethanol blend (i.e., E-20 or greater) of gasoline.

Downgradient of the Chelan Chevron service station property, contamination is generally confined vertically within a relatively thin zone at the shallow groundwater interface at depths of 25 or more feet below the ground surface. Therefore, it is likely that a vertical separation distance of 15 feet or more is present throughout most areas of the Site, so vapor intrusion would not be expected to be a contaminant exposure pathway of concern.

As described in the Phase 1 SRI work plan, the Tier 2 assessment is planned to include at least one additional sampling event in order to further evaluate the potential for vapor intrusion at the Site. The follow-up sampling event will be performed during the winter heating cycle, in order to be representative of worst-cast conditions for vapor intrusion, which are caused by stack effects in a building induced by interior heating. This sampling event may also help to elucidate the previous detection of naphthalene in the sample collected from sub-slab soil vapor sampling

probe SSVP-04. Sampling methods for the winter vapor sampling event will be similar to those used for the June 2015 sampling event; however, the use of 6-liter Summa canisters for collection of sub-slab soil vapor samples may be considered in order to obtain lower naphthalene detection limits for these samples.

3. STATUS OF GROUNDWATER MONITORING AND EVALUATION OF NATURAL ATTENUATION

At Ecology's request, the Phase 1 SRI Work Plan proposed modifications to the long-term groundwater monitoring strategy for the Site, which are intended to assist future feasibility evaluation for the use of monitored natural attenuation as a remedial action component. These changes, which are described in more detail in the Phase 1 SRI Work Plan, included the addition of three new monitoring wells to the natural attenuation monitoring network (MW-7, MW-15, and MW-18), the inclusion of additional laboratory analytical methods for NWTPH-Dx and natural attenuation indicator parameters analysis, and a change in the groundwater monitoring frequency from annual to quarterly for a period of one year.

Implementation of new groundwater monitoring strategy was initiated following Ecology's approval of the Phase 1 SRI Work Plan in May 2015. Since that time, Chevron's groundwater monitoring contractor for the Site, Gettler-Ryan Inc. (Gettler-Ryan), has completed quarterly monitoring events in June and September 2015.

Groundwater samples are typically collected from eleven monitoring wells (MW-5, MW-6, MW-7, MW-8, MW-15, MW-17, MW-18, MW-21, MW-23, MW-27, and MW-28) that are screened in the shallow perched aquifer underlying the Site, and three additional monitoring wells (MW-30, MW-31, and MW-37) that are screened in the deep water-table aquifer. Monitoring well purging and sampling are performed by low-flow groundwater sampling procedures using a submersible bladder pump (due to the depth to groundwater at the Site). During purging, depth to groundwater is monitored and field readings (including pH, temperature, dissolved oxygen, and oxidation reduction potential) are recorded from a multi-parameter instrument mounted in a flow-thru cell. Samples are submitted to Eurofins Lancaster Laboratories, Inc. (Lancaster Laboratories) for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Ecology Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and TPH as heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended;
- TPH-DRO and TPH-HRO by Ecology Method NWTPH-Dx extended with silica-gel cleanup; and
- BTEX by USEPA Method 8021B.

Quality assurance samples include a trip blank that is analyzed for TPH-GRO and BTEX, and one duplicate sample that is analyzed for TPH-GRO, TPH-DRO, TPH-HRO, and BTEX by the analytical methods listed above.

Additional groundwater samples are collected from nine selected monitoring wells and analyzed for the following natural attenuation indicator parameters:

- Ferrous iron (Fe^{2+}) by USEPA Method SM 3500-Fe B modified-1197; and

- Nitrate and Sulfate by USEPA Method 300.0.
- Dissolved manganese by SW846 6010B;
- Methane by RSKSOP-175 modified; and
- Alkalinity by SM 2320 B-1997.

Samples submitted for dissolved manganese and alkalinity analyses are field filtered using a 0.45 micron in-filter.

The current natural attenuation monitoring network includes the following monitoring wells:

- Monitoring wells MW-8 and MW-28 are included to be representative of a non-impacted, upgradient monitoring wells (although petroleum constituents were previously detected in groundwater at these locations, sampling results have generally been in compliance with MTCA Method A cleanup levels for a period of approximately 10 or more years);
- Monitoring wells MW-6, MW-7, MW-15, and MW-21 are included to be representative of source area monitoring wells;
- Monitoring wells MW-17 and MW-18 are included to be representative of monitoring wells located at the edge of the dissolved phase plume; and
- Monitoring well MW-23 is included to be representative of a non-impacted, downgradient, “sentinel” monitoring well.

Historical groundwater monitoring data are summarized in Table 4 and results of natural attenuation monitoring are summarized in Table 5. Gettler-Ryan field data sheets for the June and September 2015 monitoring events are included in Appendix E and laboratory analytical reports are included in Appendix F. Because only two sampling events have been completed since the recent modification of the groundwater monitoring program, an evaluation of groundwater monitoring and natural assessment data is not included in this report, but will instead be included with the results of future groundwater monitoring events that will be reported with the Phase 2 SRI activities.

4. LNAPL MOBILITY AND RECOVERABILITY ASSESSMENT

To facilitate further evaluation of LNAPL cleanup alternatives, Leidos proposed to perform LNAPL baildown testing at selected monitoring wells in order to quantify the current range of LNAPL transmissivity values at the Site.

LNAPL transmissivity represents the volume of LNAPL that will flow through a unit width of aquifer per unit of time and per unit of drawdown. Although it is dependent on formation (i.e., soil) properties, LNAPL transmissivity is also dependent upon additional variables, including LNAPL type, LNAPL saturation, and the thickness of mobile LNAPL present. LNAPL transmissivity is commonly determined by direct field-scale measurements through baildown testing, which measure the recovery of LNAPL to a well following a baildown event. It is considered to be a directly proportional metric for LNAPL recoverability, whereas other metrics such as apparent LNAPL thickness gauged in wells do not exhibit a consistent relationship to recoverability. Because of the dependence of LNAPL transmissivity on multiple variables, it is expected that LNAPL transmissivity values will vary throughout the Site, due to variability in

soil and/or LNAPL properties that are likely present. In addition, LNAPL transmissivity values are expected to change over the lifetime of a cleanup as LNAPL saturation levels are reduced.

Because LNAPL transmissivity represents an effective indicator of LNAPL recoverability, it is considered to be an important component in development of a Conceptual Site Model for LNAPL impacted sites. In addition to using LNAPL transmissivity data for evaluation of LNAPL recovery alternatives, transmissivity data collected over the lifetime of a cleanup action can also be used to evaluate the progress of the cleanup and to determine when further LNAPL recovery is no longer practicable.

To establish a baseline of LNAPL transmissivity values that are representative of current conditions at the Site, Leidos proposed to perform baildown testing at monitoring wells MW-10, MW-12, MW-16, MW-25 and MW-36. This set of wells was selected to be representative of the variability in LNAPL occurrence that has been observed throughout the Site. Specifically:

- MW-10, MW-12, and MW-16 were selected because these wells have consistently displayed the greatest LNAPL thicknesses over time;
- MW-10 and MW-12 were also selected to be representative of the formation properties in the vicinity of the service station property, and of the alkylate rich LNAPL with low lead content that has typically been encountered in this area;
- MW-16, MW-25 and MW-36 were selected to be representative of the formation properties in the vicinity of Emerson Street, and the alkylate poor LNAPL with high lead content that has typically been encountered in this area of the Site.

4.1 BAILDOWN TESTING FIELD EVENT – JULY 2015

LNAPL baildown testing field data collection was performed between July 15 and 17, 2015. Prior to this testing event, LNAPL bailing had not been performed at the Site since February 2015. Therefore, LNAPL conditions at the time of the baildown testing are expected to be representative of equilibrium formation conditions.

Initial measurements of the depth to the air-LNAPL interface (depth to product or DTP) and depth to LNAPL-water interface (depth to water or DTW) were collected on July 15, 2015 in order to determine the initial LNAPL thickness in each of the five monitoring wells proposed for testing. All measurements were made relative to the top of the well casing at each location using an oil-water interface probe. Initial measurements are presented in the following table:

Monitoring Well ID	Well Casing Diameter (Inches)	DTP (Feet BTOC ¹)	DTW (Feet BTOC ¹)	LNAPL Thickness (Feet)
MW-10	2	28.94	Not available ²	> 9.01
MW-12	2	26.70	30.21	3.51
MW-16	2	42.70	43.23	0.53
MW-25	4	37.27	37.40	0.13
MW-36	2	Not applicable	35.60	0.00

Notes:

1. BTOC = Below top of well casing

2. No groundwater detected in the well casing at the time of this measurement. LNAPL thickness measurement based on bottom of well at 37.95 feet BTOC.

Based on the initial LNAPL thickness measurements, baildown testing was not performed at monitoring wells MW-25 and MW-36 because these wells did not contain sufficient LNAPL to meet the recommended minimum thickness requirement for baildown testing (≥ 0.5 foot recommended per ASTM E2856-13).

Leidos returned to the Site on the following day (July 16, 2015) to conduct baildown testing at monitoring wells MW-10, MW-12, and MW-16. The following subsections describe the testing performed at each well location, which are presented in the order that the tests were initiated.

MW-12

Baildown testing was started at monitoring well MW-12. Leidos personnel began by rechecking initial DTP and DTW measurements and then calculating the total effective LNAPL volume in the well, which is the approximate volume of recoverable LNAPL within the well casing and filterpack. For MW-12, the estimated volume was 2.1 gallons (7.9 liters). This value was used as the target LNAPL removal volume for the baildown test. After this calculation was made, Leidos personnel began removal of LNAPL from MW-12 using a disposable manual bailer. Manual bailers were used for the baildown testing, instead of a peristaltic pump, because LNAPL and groundwater at the Site are typically encountered at depths that are beyond the fluid lifting capabilities of peristaltic pumps. During the bailing activities, the start time, end time, and volume of LNAPL bailed was recorded in a field log book. For the baildown test at MW-12, approximately 8 liters of LNAPL were bailed from the well during a period of approximately 12 minutes (Photo 88).

Immediately following the completion of LNAPL removal, Leidos began LNAPL recovery monitoring. DTP and DTW measurements were made using an interface probe, initially at a measurement frequency of approximately one time per minute and then gradually reducing the frequency throughout the duration of the test.

Recovery data for the baildown test at MW-12 are included in Appendix G and are presented graphically on Figure 15. Early-time data from the MW-12 baildown test indicate that LNAPL, at an in-well thickness of approximately 1.10 foot, was present in the well casing at the start of LNAPL recovery monitoring. LNAPL thickness in the well then increased slightly, to a maximum of 1.16 foot approximately 20 minutes into the recovery period, before beginning to decrease to a minimum of 0.78 foot over a period of approximately 6 hours. LNAPL thickness in the well remained steady at 0.78 foot for a period of several hours and then slowly increased to a maximum thickness of 0.83 foot at the end of the test (approximately 26 hours). DTW data collected during the recovery period indicate that groundwater elevation in MW-12 increased steadily throughout the first 17 hours of the test and was stable thereafter through the remainder of the test.

The results of the MW-12 baildown test are atypical. Early-time recovery monitoring data indicate that a significant volume of LNAPL was present in the well casing at the start of the test, which suggests that additional LNAPL, beyond the estimated target removal volume, could have been removed from the well. Throughout the remainder of the recovery period, LNAPL thickness generally decreased in the well casing. This decreasing trend appears to be due to the redistribution of LNAPL present in the well casing back into the filter pack as the groundwater

elevation recovered in the well. Due to this decreasing trend, LNAPL transmissivity at this location could not be quantified; however, the results from this test do suggest that LNAPL transmissivity would be quite low based on the lack of significant LNAPL recharge observed over the test period.

MW-16

Baildown testing at monitoring well MW-16 was initiated after completing the early-time recovery monitoring at MW-12. DTP and DTW measurements were rechecked and these values were used to calculate a target LNAPL removal volume for the test (0.3 gallon / 1.0 liter). LNAPL removal was performed, using a manual bailer, over a period of 26 minutes, resulting in removal of approximately 0.7 liter of LNAPL (Photo 88).

Recovery data for the MW-16 baildown test are included in Appendix G and presented graphically on Figure 16. Initial recovery monitoring data indicate that LNAPL thickness in the well was 0.11 foot. Recovery monitoring was conducted over a period of approximately 24 hours, during which LNAPL thickness in the well increased only 0.09 foot (approximately 1.1 inch). The minimal LNAPL thickness recovery at this monitoring well resulted in a scattered data set of LNAPL thickness values that appear to go up and down throughout much of the monitoring period. This scatter is due to the level of accuracy of the oil-water interface probe, which is capable of measurement precision to 0.01 foot. Further analysis of the MW-16 baildown test results are discussed in Section 4.2.

MW-10

Due to its location in the drive-through lanes of the Wells Fargo Bank, baildown testing at monitoring well MW-10 was started after the bank closed at 5:00 pm. Leidos rechecked initial DTP and DTW measurements and calculated a target purge volume of approximately 5.4 gallons (20 liters). Due to the lack of a detectable LNAPL-water interface in the well casing, the depth to the bottom of the well was used to estimate the LNAPL thickness present in the casing and filter pack. LNAPL removal was performed, using a manual bailer, over a period of 58 minutes, resulting in removal of approximately 20 liters of LNAPL (Photo 90).

Recovery data for the MW-10 baildown test are included in Appendix G and presented graphically on Figure 17. As shown on Figure 17, results for the MW-10 baildown test are different from those of the previous tests, in that LNAPL recovery thickness measurements for MW-10 display the classic response curve for baildown recovery data. Initial recovery monitoring data indicate that LNAPL thickness in the well was 0.40 foot at the start of the test and increased by nearly 4.5 feet in a period of approximately 2 hours. Further LNAPL thickness increases are observed throughout the remainder of the approximately 14 hour monitoring period, but at a much slower rate. Further analysis of the MW-10 baildown test results are discussed in Section 4.2.

4.2 ANALYSIS OF BAILDOWN TESTING RESULTS

To analyze the LNAPL baildown test data, Leidos used the most recent version of the American Petroleum Institute (API) LNAPL Transmissivity Workbook and user guide (API, 2012). This workbook is a generally accepted standard for analysis of baildown test data and is consistent with current ASTM standards (ASTM, 2013) for baildown test data analysis. As previously discussed, due to the trend of decreasing LNAPL thickness observed during the recovery period for the MW-12 baildown test, no additional analysis of the data from that test was performed.

To use the API workbook, baildown test data are first entered into the Data worksheet portion of the workbook. Required data include: construction details of the test well (e.g., well casing diameter, boring diameter, and screen interval); LNAPL physical properties; and DTP / DTW measurements collected through the recovery phase of the baildown test. Using this data, the API workbook creates a series of 10 data plots, which are presented on the Figures worksheet of the workbook. The data plots are then analyzed to determine how to proceed with further evaluation of the data. Within this figure set, Figure 3 (LNAPL Drawdown versus LNAPL Discharge) and Figure 4 (LNAPL drawdown versus LNAPL Thickness) are considered the most important diagnostic tools. Evaluation of the data plotted in Figure 3 can be used to identify possible initial non-equilibrium conditions between the formation and well fluids and can also be used to determine whether LNAPL is present in unconfined, confined, or perched conditions. Figure 4 is an essential tool that is used to estimate the J-ratio magnitude, which is required by several of the methods (details regarding use of the Figures worksheet can be found in the API user guide for the workbook).

A summary of the estimated transmissivity results is presented in the following table:

Monitoring Well ID	Estimated LNAPL Transmissivity (ft ² /day)		
	Bouwer and Rice (1976)	Cooper and Jacob (1946)	Cooper, Bredehoeft, and Papadopulos (1967)
MW-16	0.00 ± 0.00	0.01	0.06
MW-16 (filtered)	0.00 ± 0.00	0.00	0.04
MW-10	0.39 ± 0.05	0.76	0.90

API workbook input data sheets and results are included in Appendix G. Based on the LNAPL drawdown versus LNAPL discharge plots for each test, Leidos concluded that the data indicated continuously decreasing discharge with decreasing drawdown; therefore, the data for each test were analyzed for unconfined LNAPL conditions. Under this scenario, the API workbook calculates LNAPL transmissivity estimates for each of the three methods listed in the table above. Results from the MW-16 baildown test were analyzed by two methods, one time using a complete set of recovery data and a second time utilizing a filtered data set. The intent of the filtered data set was to evaluate whether removing some of the “noise” from the data would result in any significant change in the output results; however, as shown for MW-16 in the table above the results were similar. Test results for the MW-10 baildown test were analyzed using a 20-minute cut-off time to eliminate early-time effects not representing formation drainage.

4.3 BAILDOWN TESTING CONCLUSIONS AND RECOMMENDATIONS

Results from the first round of LNAPL baildown testing are generally consistent with the results of long-term manual LNAPL monitoring and bailing at the Site, which suggest that LNAPL recoverability by standard hydraulic methods (e.g., skimming or pumping) would be expected to be generally low throughout much of the Site, with some potential exceptions on a localized basis. These results are consistent with the fine grained lithology of the Site. Baildown testing results suggest that LNAPL transmissivity at monitoring well MW-10 may be sufficient for practicable LNAPL recovery at this location; however, the recent results for monitoring wells

MW-12 and MW-16 are lower than the generally accepted minimum transmissivity range (0.1 to 0.8 ft²/day) that is used to identify recoverable LNAPL (ITRC, 2009).

As previously discussed, LNAPL transmissivity is dependent upon a large number of variables, which include soil properties, LNAPL properties, LNAPL saturation, and LNAPL formation thickness. Therefore, LNAPL transmissivity testing results can be a useful tool in the selection and monitoring of an effective cleanup remedy. However, care must also be used to recognize the limitations of transmissivity data. Transmissivity values are not constant, but will instead vary based on changes in environmental conditions, such as changes in groundwater elevation. Transmissivity values based on baildown test results may be highly localized, indicative only of conditions in the vicinity of the test well, and may also be impacted by the conditions of the test well. In poorly developed wells or older wells where LNAPL recovery has been performed for some time, baildown testing may result in low LNAPL transmissivity values that are not representative of conditions throughout a site.

Therefore, as part of the remedy selection process for this Site, Leidos recommends performance of an additional round of baildown testing as part of the Phase 2 SRI activities. The next round of baildown testing would include each of the three monitoring wells included in the first round of testing, and would also include monitoring well MW-9. Prior to the testing, each monitoring well would be redeveloped in order to maximize communication between the in-well fluids and surrounding formation. Testing may also be conducted over a longer time period (approximately 48 hours) in order to collect data over a longer portion of each well's recovery toward equilibrium conditions.

5. SRI PHASE 1 SUMMARY AND PROPOSED PATH FORWARD

Leidos initiated the first phase of Supplemental Remedial Investigation activities for the Site following Ecology's approval of the Phase 1 SRI work plan in May 2015. These activities included performance of Tier 2 vapor intrusion assessment sampling, LNAPL baildown testing, and initiation of a modified groundwater monitoring program.

Results of the June 2015 Tier 2 vapor intrusion assessment sampling indicate that benzene was detected at concentrations exceeding the Method B indoor air cleanup level in all valid outdoor air samples collected. Toluene, ethylbenzene, and xylenes were also detected in each of these samples; however, at concentrations below their respective cleanup levels. These data indicate that these compounds are present in background ambient air in the vicinity of the Site, and therefore would also be expected to be found in the indoor air of buildings in the vicinity.

In fact, BTEX were detected in all of the indoor samples collected and benzene specifically was detected at concentrations exceeding the MTCA Method B indoor air cleanup level in five of the nine indoor air samples collected. BTEX results for sub-slab soil vapor samples collected were generally lower than the results for these compounds in indoor and outdoor air.

Naphthalene was also detected above the Method B indoor air cleanup level in eight of the nine indoor air samples collected. The concentrations of naphthalene detected in these indoor air samples are not consistent with the outdoor air sampling results; therefore, the presence of naphthalene in indoor air at these locations does not appear to be the result of background ambient air. Results of sub-slab soil vapor sampling indicate that naphthalene was detected in one sample above the MTCA Method B soil gas screening level. Naphthalene was not detected in 14 of the sixteen sub-slab soil vapor samples collected, and one of the two naphthalene

detections was at a concentration below the sampling canister certification level provided by the laboratory. Therefore it is possible that this detection is due to contaminant carry-over from previous use of the canister.

The results from the first round of Tier 2 assessment sampling suggest that petroleum contamination remaining in soil and groundwater in the vicinity of these buildings is not the source of these compounds in indoor air. These results are consistent with recent USEPA guidance regarding petroleum vapor intrusion assessment.

A follow-up Tier 2 sampling event is currently being planned to further evaluate the potential for vapor intrusion at the Site. The next sampling round will be performed during the winter heating cycle in order to be representative of worst-case conditions for vapor intrusion, which are caused by heating induced stack effects. Sampling methods for the winter vapor sampling event will be similar to those used for the June 2015 sampling event; however, the use of 6-liter Summa canisters for collection of sub-slab soil vapor samples may be considered in order to obtain lower naphthalene detection limits for these samples.

Gettler-Ryan has completed two of four proposed groundwater monitoring events, which included an expanded monitoring well network and laboratory analyses for natural attenuation monitoring. A thorough evaluation of the new natural attenuation monitoring data has not been completed to date, but will instead be included with the results of future groundwater monitoring events that will be reported with the upcoming Phase 2 SRI activities.

Results of the LNAPL baildown testing performed that the Site in July 2015 suggest that LNAPL recovery may be possible in the vicinity of monitoring well MW-10; however, results for the other wells tested suggest that LNAPL transmissivity in the vicinity of these locations may be too low to be practicable. Leidos recommends that additional baildown testing be performed at each of these wells, and also possibly at monitoring well MW-9, to further evaluate LNAPL recoverability at the Site.

6. REFERENCES

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LIMITATIONS

This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state, or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from Chevron and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied on by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

Tables

Table 1
Summary of Indoor and Outdoor Air Sampling Results
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

Location	Sample ID	Sample Type	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl- benzene (µg/m3)	m,p - Xylene (µg/m3)	o - Xylene (µg/m3)	MTBE (µg/m3)	Naphthalene (µg/m3)	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
Sidewalk north of 140 East Woodin Ave	OA-01-062315	Outdoor air	0.77	2.0	0.36	1.3	0.46	< 0.036	< 0.068	22	78	0.040	0.00020	< 0.094
Sidewalk north of 222 East Woodin Ave	OA-02-062315	Outdoor air	0.43	1.4	0.27	0.96	0.35	< 0.035	< 0.066	21	79	0.039	0.00019	< 0.091
SE corner of E Woodin Ave and S Emerson St	OA-03-062315	Outdoor air	0.52	1.4	0.26	0.91	0.32	< 0.035	< 0.066	21	79	0.039	0.00019	< 0.092
Flag pole at Riverfront Park ¹	OA-04-062315	Outdoor air	0.14J	0.40	0.071J	0.24J	0.084J	< 0.028	< 0.052	16	84	0.030	0.00014	< 0.072
In parking lot near MW-30	OA-05-062315	Outdoor air	0.42	1.8	0.28	1.0	0.34	< 0.037	0.081J	21	79	0.039	0.00022	< 0.096
233 East Wapato Ave	IA-233EWA-062315	Indoor air	1.0	17	10	22	5.2	< 0.029	1.4	21	79	0.044	0.00019	< 0.075
222 East Woodin Ave	IA-222EWA-062315	Indoor air	0.27	1.1	0.23	0.60	0.23	< 0.032	< 0.060	22	78	0.065	0.00020	< 0.083
216 East Woodin Ave	IA-216EWA-062315	Indoor air	0.29	4.7	1.1	3.2	1.7	0.032J	1.1	21	79	0.048	0.00021	< 0.080
212 East Woodin Ave	IA-212EWA-062315	Indoor air	0.64	7.1	0.88	1.6	0.73	< 0.030	0.80	22	78	0.069	0.00022	< 0.078
206 East Woodin Ave	IA-206EWA-062315	Indoor air	2.5	21	3.3	11	4.6	6.5	7.8	21	79	0.069	0.00020	< 0.079
204 East Woodin Ave	IA-204EWA-062315	Indoor air	0.28	2.1	0.35	1.1	0.35	< 0.032	2.4	21	79	0.052	0.00021	< 0.084
113 South Emerson St	IA-113SES-062315	Indoor air	0.30	2.4	0.31	0.66	0.25	< 0.029	0.21J	21	79	0.056	0.00019	< 0.076
146 East Woodin Ave	IA-146EWA-062315	Indoor air	0.64	7.9	4.3	11	3.7	< 0.032	0.69	21	79	0.066	0.00022	< 0.082
140 East Woodin Ave	IA-140EWA-062315	Indoor air	0.56	2.9	0.56	1.8	0.73	< 0.031	0.17J	21	79	0.053	0.00020	< 0.080
Former MTCA Method B Indoor Air CUL ²			0.32	2,200	460	46	46	9.6	1.4					
Revised MTCA Method B Indoor Air CUL³			0.321	2,290	457	45.7	45.7	9.62	0.0735					

Notes:

1. Sample considered invalid based on oxygen and nitrogen results which indicate that the sample was compromised prior to analysis.
2. Based on values presented in Appendix B, Table B-1, of the October 2009 draft Guidance for Evaluating Soil Vapor Intrusion in Washington State.
3. Based on values presented in Excel spreadsheet, "Vapor Intrusion Table update April 6 2015", available from the Department of Ecology website (<http://www.ecy.wa.gov/programs/tcp/policies/VaporIntrusion/vig.html>)
4. Bold values in gray shaded cells represent indoor or outdoor air sampling results which exceed the revised Method B indoor air cleanup level.
5. J = Data qualifier indicating an estimated value less than the reporting limit but greater than the method detection limit.

Table 2
Summary of Sub-Slab Soil Vapor Sampling Results
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

Location	Sample ID	Sample Type	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl- benzene (µg/m3)	m,p - Xylene (µg/m3)	o - Xylene (µg/m3)	MTBE (µg/m3)	Naphthalene (µg/m3)	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
233 East Wapato Ave	SSVP-01-062415	Sub-slab	0.19J	0.70J	0.48J	1.1	0.24J	< 0.19	< 0.68	21	78	0.32	< 0.00021	0.29
222 East Woodin Ave	SSVP-02-062415	Sub-slab	0.22J	0.18J	< 0.34	< 0.23	< 0.19	< 0.20	< 0.72	21	78	0.56	< 0.00022	< 0.11
	SSVP-03-062415	Sub-slab	< 0.17	0.12J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.68	20	79	1.0	< 0.00021	< 0.10
216 East Woodin Ave	SSVP-04-062415	Sub-slab	0.24J	3.2	1.8	12	5.8	< 0.18	13	21	78	0.14	< 0.00020	0.32
	SSVP-05-062415	Sub-slab	0.19J	1.3	0.52J	1.5	1.1	< 0.19	< 0.68	21	78	0.050	< 0.00021	0.67
212 East Woodin Ave	SSVP-06-062515	Sub-slab	< 0.17	0.37J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.68	21	79	0.18	< 0.00021	0.12
	Duplicate-062515	Sub-slab	0.30J	0.26J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.67	21	79	0.18	< 0.00020	0.12
206 East Woodin Ave	SSVP-07-062515	Sub-slab	< 0.16	0.59J	< 0.31	< 0.21	< 0.18	< 0.18	< 0.66	21	78	0.088	< 0.00020	0.62
	SSVP-08-062515	Sub-slab	< 0.17	0.21J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.67	21	79	0.073	< 0.00020	0.25
204 East Woodin Ave	SSVP-09-062415	Sub-slab	0.19J	1.1	0.57J	1.0	0.43J	< 0.19	1.8J ⁵	21	79	0.23	< 0.00021	< 0.11
	SSVP-10-062515	Sub-slab	0.24J	3.5	0.40J	1.0	0.48J	< 0.19	< 0.69	21	79	0.10	< 0.00021	< 0.11
113 South Emerson St	SSVP-11-062515	Sub-slab	0.30J	0.28J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.69	20	79	0.69	< 0.00021	0.20
146 East Woodin Ave	SSVP-12-062415	Sub-slab	< 0.17	< 0.096	< 0.32	< 0.22	< 0.18	< 0.19	< 0.68	20	79	0.57	< 0.00021	< 0.10
	Duplicate-062415	Sub-slab	< 0.17	0.11J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.69	20	79	0.57	< 0.00021	< 0.11
140 East Woodin Ave	SSVP-13-062515	Sub-slab	0.32J	0.70J	< 0.31	0.46J	< 0.18	< 0.18	< 0.66	21	79	0.087	< 0.00020	< 0.10
	SSVP-14-062515	Sub-slab	0.20J	0.29J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.68	21	79	0.12	< 0.00021	0.19
QA/QC equipment blank	EB-062915	QA/QC	< 0.19	0.30J ⁵	< 0.36	< 0.24	< 0.20	< 0.21	< 0.75	1.1	98	< 0.023	< 0.00023	0.33
Former MTCA Method B Sub-Slab Soil Gas Screening Level ¹			3.2	22,000	4,600	460	460	96	14					
Revised MTCA Method B Sub-Slab Soil Gas Screening Level²			10.7	76,200	15,200	1,520	1,520	321	2.45					

Notes:

1. Based on values presented in Appendix B, Table B-1, of the October 2009 draft Guidance for Evaluating Soil Vapor Intrusion in Washington State.
2. Based on values presented in Excel spreadsheet, "Vapor Intrusion Table update April 6 2015", available from the Department of Ecology website (<http://www.ecy.wa.gov/programs/tcp/policies/VaporIntrusion/vig.html>)
3. Bold values in orange shaded cells represent sub-slab soil vapor sampling results which exceed the revised Method B sub-slab soil gas screening level.
4. J = Data qualifier indicating an estimated value less than the reporting limit but greater than the method detection limit.
5. Estimated value is less than the sampling canister certification level provided by the laboratory; therefore, this result may be due to trace amounts of the detected compound remaining in the sampling canister from a previous use.

Table 3
Comparison of Vapor Intrusion Assessment Sampling Results by Location
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

Location	Sample ID	Sample Type	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl- benzene (µg/m3)	m,p - Xylene (µg/m3)	o - Xylene (µg/m3)	MTBE (µg/m3)	Naphthalene (µg/m3)	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
Sidewalk north of 140 East Woodin Ave	OA-01-062315	Outdoor air	0.77	2.0	0.36	1.3	0.46	< 0.036	< 0.068	22	78	0.040	0.00020	< 0.094
Sidewalk north of 222 East Woodin Ave	OA-02-062315	Outdoor air	0.43	1.4	0.27	0.96	0.35	< 0.035	< 0.066	21	79	0.039	0.00019	< 0.091
SE corner of E Woodin Ave and S Emerson St	OA-03-062315	Outdoor air	0.52	1.4	0.26	0.91	0.32	< 0.035	< 0.066	21	79	0.039	0.00019	< 0.092
Flag pole at Riverfront Park ¹	OA-04-062315	Outdoor air	0.14J	0.40	0.071J	0.24J	0.084J	< 0.028	< 0.052	16	84	0.030	0.00014	< 0.072
In parking lot near MW-30	OA-05-062315	Outdoor air	0.42	1.8	0.28	1.0	0.34	< 0.037	0.081J	21	79	0.039	0.00022	< 0.096
233 East Wapato Ave	SSVP-01-062415	Sub-slab	0.19J	.70J	0.48J	1.1	0.24J	< 0.19	< 0.68	21	78	0.32	< 0.00021	0.29
	IA-233EWA-062315	Indoor air	1.0	17	10	22	5.2	< 0.029	1.4	21	79	0.044	0.00019	< 0.075
222 East Woodin Ave	SSVP-02-062415	Sub-slab	0.22J	0.18J	< 0.34	< 0.23	< 0.19	< 0.20	< 0.72	21	78	0.56	< 0.00022	< 0.11
	SSVP-03-062415	Sub-slab	< 0.17	0.12J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.68	20	79	1.0	< 0.00021	< 0.10
	IA-222EWA-062315	Indoor air	0.27	1.1	0.23	0.60	0.23	< 0.032	< 0.060	22	78	0.065	0.00020	< 0.083
216 East Woodin Ave	SSVP-04-062415	Sub-slab	0.24J	3.2	1.8	12	5.8	< 0.18	13	21	78	0.14	< 0.00020	0.32
	SSVP-05-062415	Sub-slab	0.19J	1.3	0.52J	1.5	1.1	< 0.19	< 0.68	21	78	0.050	< 0.00021	0.67
	IA-216EWA-062315	Indoor air	0.29	4.7	1.1	3.2	1.7	0.032J	1.1	21	79	0.048	0.00021	< 0.080
212 East Woodin Ave	SSVP-06-062515	Sub-slab	< 0.17	0.37J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.68	21	79	0.18	< 0.00021	0.12
	Duplicate-062515	Sub-slab	0.30J	0.26J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.67	21	79	0.18	< 0.00020	0.12
	IA-212EWA-062315	Indoor air	0.64	7.1	0.88	1.6	0.73	< 0.030	0.80	22	78	0.069	0.00022	< 0.078
206 East Woodin Ave	SSVP-07-062515	Sub-slab	< 0.16	0.59J	< 0.31	< 0.21	< 0.18	< 0.18	< 0.66	21	78	0.088	< 0.00020	0.62
	SSVP-08-062515	Sub-slab	< 0.17	0.21J	< 0.32	< 0.22	< 0.18	< 0.18	< 0.67	21	79	0.073	< 0.00020	0.25
	IA-206EWA-062315	Indoor air	2.5	21	3.3	11	4.6	6.5	7.8	21	79	0.069	0.00020	< 0.079
204 East Woodin Ave	SSVP-09-062415	Sub-slab	0.19J	1.1	0.57J	1.0	0.43J	< 0.19	1.8J ⁶	21	79	0.23	< 0.00021	< 0.11
	SSVP-10-062515	Sub-slab	0.24J	3.5	0.40J	1.0	0.48J	< 0.19	< 0.69	21	79	0.10	< 0.00021	< 0.11
	IA-204EWA-062315	Indoor air	0.28	2.1	0.35	1.1	0.35	< 0.032	2.4	21	79	0.052	0.00021	< 0.084
113 South Emerson St	SSVP-11-062515	Sub-slab	0.30J	0.28J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.69	20	79	0.69	< 0.00021	0.20
	IA-113SES-062315	Indoor air	0.30	2.4	0.31	0.66	0.25	< 0.029	0.21J	21	79	0.056	0.00019	< 0.076
146 East Woodin Ave	SSVP-12-062415	Sub-slab	< 0.17	< 0.096	< 0.32	< 0.22	< 0.18	< 0.19	< 0.68	20	79	0.57	< 0.00021	< 0.10
	Duplicate-062415	Sub-slab	< 0.17	0.11J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.69	20	79	0.57	< 0.00021	< 0.11
	IA-146EWA-062315	Indoor air	0.64	7.9	4.3	11	3.7	< 0.032	0.69	21	79	0.066	0.00022	< 0.082
140 East Woodin Ave	SSVP-13-062515	Sub-slab	0.32J	0.70J	< 0.31	0.46J	< 0.18	< 0.18	< 0.66	21	79	0.087	< 0.00020	< 0.10
	SSVP-14-062515	Sub-slab	0.20J	0.29J	< 0.33	< 0.22	< 0.18	< 0.19	< 0.68	21	79	0.12	< 0.00021	0.19
	IA-140EWA-062315	Indoor air	0.56	2.9	0.56	1.8	0.73	< 0.031	0.17J	21	79	0.053	0.00020	< 0.080
QA/QC equipment blank	EB-062915	QA/QC	< 0.19	0.30J ⁶	< 0.36	< 0.24	< 0.20	< 0.21	< 0.75	1.1	98	< 0.023	< 0.00023	0.33
Revised MTCA Method B Sub-Slab Soil Gas Screening Level²			10.7	76,200	15,200	1,520	1,520	321	2.45					
Revised MTCA Method B Indoor Air CUL²			0.321	2,290	457	45.7	45.7	9.62	0.0735					

Notes:

1. Sample considered invalid based on oxygen and nitrogen results which indicate that the sample was compromised prior to analysis.
2. Based on values presented in Excel spreadsheet, "Vapor Intrusion Table update April 6 2015", available from the Department of Ecology website (<http://www.ecy.wa.gov/programs/tcp/policies/VaporIntrusion/vig.html>)
3. Bold values in gray shaded cells represent indoor or outdoor air sampling results which exceed the revised Method B indoor air cleanup level.
4. Bold values in orange shaded cells represent sub-slab soil vapor sampling results which exceed the revised Method B sub-slab soil gas screening level.
5. J = Data qualifier indicating an estimated value less than the reporting limit but greater than the method detection limit.
6. Estimated value is less than the sampling canister certification level provided by the laboratory; therefore, this result may be due to trace amounts of the detected compound remaining in the sampling canister from a previous use.

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-1																
	1/9/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/10/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/3/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/92	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-2																
	1/9/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/10/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/3/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/92	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/19/93	1,123.89	--	21.69	--	1,102.20	690,000	130,000	--	15,000	16	140	25	13,000	--	--
	6/17/93	1,123.89	--	21.41	--	1,102.48	67,000	53,000	--	2,200	3.5	29	0.7	100	--	39
	9/10/93	1,123.89	--	21.04	--	1,102.85	84,000	120,000	--	13,000	12	100	9.7	440	--	200
	11/19/93	1,123.89	--	21.45	--	1,102.44	62,000	67,000	--	6,100	3.1	35	5.2	200	--	260
	3/10/94	1,123.89	--	21.39	--	1,102.50	--	--	--	--	--	--	--	--	--	--
	5/8/94	1,123.89	--	21.41	--	1,102.48	63,000	71,000	--	12,000	ND	14	5.9	210	--	36.9
	8/24/94	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/16/94	1,123.89	--	21.53	--	1,102.36	330,000	220,000	--	22,000	ND	9.6	16	300	--	490
	2/22/95	1,123.89	--	21.23	--	1,102.66	100,000	15,000	ND	9,400	ND	7.2	2.2	94	--	11
	5/9-10/95	1,123.89	--	21.77	--	1,102.12	--	--	--	1,400	0.56	2.7	0.98	45	--	6.8
	8/15/95	1,123.89	--	21.50	--	1,102.39	--	2,300	940	6,700	600	160	280	750	--	--
	11/6/95	1,123.89	--	21.13	--	1,102.76	--	8,200	1,600	1,400	ND	0.78	ND	64	--	--
	2/27/96	1,123.89	--	20.25	--	1,103.64	--	3,000	ND	7,200	ND	ND	ND	940	--	--
	8/13/96	1,123.89	--	20.28	--	1,103.61	--	30,900	ND	3,190	ND	ND	2.68	35.1	--	--
	2/11/97	1,123.89	--	22.64	--	1,101.25	--	17,400	2,090	3,150	ND	ND	ND	ND	--	--
	9/23/97	1,123.89	--	20.30	--	1,103.59	--	12,300	ND	3,270	26	134	200	116	--	--
	3/3/98	1,123.89	--	20.10	--	1,103.79	--	1,600	ND	13,400	37.5	869	267	1,540	--	--
	9/23/98	1,123.89	--	20.24	--	1,103.65	--	894	ND	21,600	ND	1,460	650	3,730	--	--
	3/20/99	1,123.89	--	20.31	0.00	1,103.58	--	20,200	19,200	30,900	ND	1,800	737	5,240	--	--
	9/2/99	1,123.89	--	20.72	0.00	1,103.17	--	3,090	ND	12,600	9.31	244	380	1,740	--	--
	5/10/00	1,123.89	21.16	21.16	Sheen	1,102.73	--	--	--	23,800	ND	89.9	184	920	ND	--
	11/11/00	1,123.89	--	21.11	0.00	1,102.78	--	4,850	791	7,200	21.4	14.4	30.4	52.1	7.21	--
	2/19/01	1,123.89	--	21.38	0.00	1,102.51	--	--	--	--	--	--	--	--	--	--
	2/26/01	1,123.89	--	21.44	0.00	1,102.45	--	2,690	ND	2,740	8.72	ND	6.04	17.0	ND ⁷	--
	5/25/01	1,123.89	--	23.27	0.00	1,100.62	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-2 (cont.)																
	8/17/01	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/9/01	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/03	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,123.89	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/15	1,123.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,123.89	NOT SAMPLED DUE TO OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--	--	--	--
MW-3																
	1/9/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/10/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/3/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/5/92	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/19/93	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/93	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/10/93	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/93	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/10/94	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/8/94	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/24/94	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/16/94	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-3 (cont.)																
	2/22/95	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/9-10/95	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/95	1,124.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/95	1,124.86	--	24.55	--	1,100.31	--	--	--	--	--	--	--	--	--	--
	2/27/96	1,124.86	--	24.30	--	1,100.56	--	--	--	--	--	--	--	--	--	--
	8/13/96	1,124.86	--	22.20	--	1,102.66	--	--	--	--	--	--	--	--	--	--
	2/11/97	1,124.86	--	22.95	--	1,101.91	--	--	--	--	--	--	--	--	--	--
	9/23/97	1,124.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/3/98	1,124.86	--	21.85	--	1,103.01	--	428	ND	59	0.630	0.643	ND	ND	--	--
	9/23/98	1,124.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/19/01	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/10/00	1,124.86	--	24.57	0.00	1,100.29	--	--	--	--	--	--	--	--	--	--
	9/20-21/01	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/01	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/03	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,124.86	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-4																
	1/9/92	1,123.30	--	24.37	--	1,098.93	--	--	--	--	--	--	--	--	--	--
	1/24/92	1,123.30	--	24.30	--	1,099.00	--	--	--	--	--	--	--	--	--	--
	2/5/92	1,123.30	--	24.35	--	1,098.95	--	--	--	--	--	--	--	--	--	--
	3/10/92	1,123.30	--	24.30	--	1,099.00	--	--	--	--	--	--	--	--	--	--
	5/19/92	1,123.30	--	24.34	--	1,098.96	--	--	--	--	--	--	--	--	--	--
	6/3/92	1,123.30	--	24.31	--	1,123.30	--	--	--	--	--	--	--	--	--	--
	6/17/92	1,123.30	--	24.33	--	1,098.97	--	--	--	--	--	--	--	--	--	--
	10/5/92	1,123.30	--	24.29	--	1,099.01	--	--	--	--	--	--	--	--	--	--
	3/19/93	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/93	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/10/93	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/93	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/10/94	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/8/94	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-4 (cont.)																	
	8/24/94	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/16/94	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/22/95	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/9-10/95	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/15/95	1,123.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/6/95	1,123.30	--	24.50	--	1,098.80	--	--	--	--	--	--	--	--	--	--	
	2/27/96	1,123.30	--	23.22	--	1,100.08	--	--	--	--	--	--	--	--	--	--	
	8/13/96	1,123.30	--	23.22	--	1,100.08	--	--	--	--	--	--	--	--	--	--	
	2/11/97	1,123.30	--	22.65	--	1,100.65	--	1,310	1,400	72.8	4.64	0.610	ND	3.36	--	--	
	9/23/97	1,123.30	--	21.40	--	1,101.90	--	--	--	--	--	--	--	--	--	--	
	3/3/98	1,123.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/23/98	1,123.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/2/99	1,123.30	--	22.31	0.00	1,100.99	--	876	1,060	151	0.789	1.95	2.48	15.0	--	--	
	5/10/00	1,123.30	--	23.60	0.00	1,099.70	--	--	--	287	11	ND	14.0	2.08	ND	--	
	11/11/00	1,123.30	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--	--	--	--	--	--
	2/26/01	1,123.30	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--	--	--	--	--	--
	5/25/01	1,123.30	--	24.40	0.00	1,098.90	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--	
	6/19/01	1,123.30	--	24.45	0.00	1,098.85	--	--	--	--	--	--	--	--	--	--	
	8/17/01	1,123.30	--	24.36	0.00	1,098.94	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--	
	9/21/01	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/9/01	1,123.30	--	24.35	0.00	1,098.95	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--	
	11/14/01	1,123.30	--	24.37	0.00	1,098.93	--	--	--	--	--	--	--	--	--	--	
	1/24/02	1,123.30	--	24.41	0.00	1,098.89	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--	
	7/1/03	1,123.30	--	24.30	0.00	1,099.00	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/23/03	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1/14/04	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	4/13/04	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/12/04	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/13/04	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1/12/05	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/05	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/26/05	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/22/06	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/6/07	1,123.30	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
ABANDONED																	
MW-5																	
	1/9/92	1,120.27	--	30.52	--	1,089.75	--	ND	--	ND	43	0.6	ND	24	--	ND	
	1/24/92	1,120.27	--	30.70	--	1,089.57	--	--	--	--	--	--	--	--	--	--	
	2/5/92	1,120.27	--	31.18	--	1,089.09	--	--	--	--	--	--	--	--	--	--	
	3/10/92	1,120.27	--	32.06	--	1,088.21	ND	ND	--	ND	5.8	0.8	ND	3.0	--	ND	
	5/19/92	1,120.27	--	33.70	--	1,086.57	--	--	--	--	--	--	--	--	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-5 (cont.)																	
	6/3/92	1,120.27	--	34.39	--	1,085.88	--	--	--	--	--	--	--	--	--	--	
	6/17/92	1,120.27	--	34.85	--	1,085.42	--	--	--	--	--	--	--	--	--	--	
	10/5/92	1,120.27	--	33.97	--	1,086.30	--	--	--	ND	ND	ND	ND	ND	--	330	
	3/19/93	1,120.27	--	33.35	--	1,086.92	ND	ND	--	ND	ND	ND	ND	ND	--	58	
	6/17/93	1,120.27	--	33.84	--	1,086.43	ND	ND	--	ND	ND	ND	ND	ND	--	--	
	9/10/93	1,120.27	--	32.70	--	1,087.57	ND	ND	--	ND	ND	0.5	ND	ND	--	46	
	11/19/93	1,120.27	--	33.36	--	1,086.91	ND	ND	--	ND	ND	ND	ND	ND	--	23	
	3/10/94	1,120.27	--	33.90	--	1,086.37	--	--	--	--	--	--	--	--	--	--	
	5/8/94	1,120.27	--	35.00	--	1,085.27	--	--	--	--	--	--	--	--	--	--	
	8/24/94	1,120.27	--	33.26	--	1,087.01	ND	400	--	ND	ND	ND	ND	ND	--	20	
	11/16/94	1,120.27	--	32.22	--	1,088.05	--	--	--	--	--	--	--	--	--	--	
	2/22/95	1,120.27	--	31.28	--	1,088.99	ND	ND	ND	ND	ND	ND	ND	ND	--	2.2	
	5/9-10/95	1,120.27	--	29.64	--	1,090.63	--	ND	ND	ND	ND	ND	ND	ND	--	ND	
	8/15/95	1,120.27	--	23.72	--	1,096.55	--	ND	ND	ND	ND	ND	ND	ND	--	--	
	11/6/95	1,120.27	--	21.00	--	1,099.27	--	410	940	ND	ND	ND	ND	ND	--	--	
	2/27/96	1,120.27	--	20.27	--	1,100.00	--	ND	ND	ND	ND	ND	ND	ND	--	--	
	8/13/96	1,120.27	--	20.30	--	1,099.97	--	--	--	--	--	--	--	--	--	--	
	2/11/97	1,120.27	INACCESSIBLE - DUE TO SNOW				--	--	--	--	--	--	--	--	--	--	--
	9/23/97	1,120.27	--	19.75	--	1,100.52	--	334	ND	ND	ND	ND	ND	ND	--	--	
	3/3/98	1,120.27	--	19.50	--	1,100.77	--	679	ND	ND	ND	ND	ND	ND	--	--	
	9/23/98	1,120.27	--	19.65	--	1,100.62	--	296	ND	66.7	24	ND	ND	1.94	--	--	
	3/20/99	1,120.27	--	19.72	0.00	1,100.55	--	501	ND	ND	15	ND	ND	ND	--	--	
	9/2/99	1,120.27	--	20.09	0.00	1,100.18	--	376	ND	165	6.43	ND	ND	24.7	--	--	
	5/10/00	1,120.27	--	20.52	0.00	1,099.75	--	--	--	--	--	--	--	--	--	--	
	11/11/00	1,120.27	--	20.48	0.00	1,099.79	--	--	--	--	--	--	--	--	--	--	
	2/19/01	1,120.27	--	20.74	0.00	1,099.53	--	--	--	--	--	--	--	--	--	--	
	2/26/01	1,120.27	--	20.76	0.00	1,099.51	--	--	--	--	--	--	--	--	--	--	
	5/25/01	1,120.27	--	26.22	0.00	1,094.05	--	<50	<250	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	
	6/19/01	1,120.27	--	28.15	--	1,092.12	--	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--	
	8/17/01	1,120.27	--	28.59	0.00	1,091.68	--	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	
	11/9/01	1,120.27	--	28.89	0.00	1,091.38	--	<250	<750	<100	<0.500	<1.00	<1.00	<1.50	--	--	
	1/24/02	1,120.27	--	28.91	0.00	1,091.36	--	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	
	5/19/02	1,120.27	--	23.22	0.00	1,097.05	--	<250	<750	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	7/16/02	1,120.27	--	29.09	0.00	1,091.18	--	<250	<750	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	11/11/02	1,120.27	--	30.23	0.00	1,090.04	--	<250	<250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	2/24/03	1,120.27	--	30.91	0.00	1,089.36	--	<250	<250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	4/1-4/03	1,120.27	--	30.79	0.00	1,089.48	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	4/1-4/03 (D)	1,120.27	--	--	--	--	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	7/1/03	1,120.27	--	32.14	0.00	1,088.13	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,120.27	--	32.30	0.00	1,087.97	NOT SAMPLED DUE TO OBSTRUCTION/BENT CASING				--	--	--	--	--	--	
	10/23/03	1,120.27	--	31.74	0.00	1,088.53	--	<160	<200	56	<0.5	<0.5	<0.5	<1.5	--	--	
	1/13/04	1,120.27	--	34.50	0.00	1,085.77	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-5 (cont.)																
	4/14/04	1,120.27	--	33.83	0.00	1,086.44	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	7/12/04	1,120.27	--	33.50	0.00	1,086.77	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,120.27	--	33.19	0.00	1,087.08	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,120.27	--	34.05	0.00	1,086.22	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,120.27	DRY	--	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	5/17/05	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,120.27	--	34.75	0.00	1,085.52	--	--	--	--	--	--	--	--	--	--
	3/14/06	1,120.27	--	30.88	0.00	1,089.39	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,120.27	--	30.18	0.00	1,090.09	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,120.27	--	29.79	0.00	1,090.48	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,120.27	--	29.33	0.00	1,090.94	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,120.27	--	--	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	5/12/08	1,123.27	--	30.69	--	1,092.58	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,123.27	--	30.62	--	1,092.65	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,120.27	DRY	--	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	5/21/12	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,120.27	--	34.33	0.00	1,085.94	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	5/5/14	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/15	1,120.27	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,120.27	--	29.11	--	1,091.16	--	<28/<28	<68/<68	<50	<0.5	<0.5	<0.5	<1.5	<0.5	--
MW-6																
	1/9/92	1,124.71	--	31.00	--	1,093.71	--	ND	--	64,000	7,800	16,000	810	7,800	--	8.8
	1/24/92	1,124.71	--	31.08	--	1,093.63	--	--	--	--	--	--	--	--	--	--
	2/5/92	1,124.71	--	31.52	--	1,093.19	--	--	--	--	--	--	--	--	--	--
	3/10/92	1,124.71	32.17	32.29	0.12	1,092.52	--	--	--	--	--	--	--	--	--	--
	5/19/92	1,124.71	32.56	32.79	0.23	1,092.10	--	--	--	--	--	--	--	--	--	--
	6/3/92	1,124.71	32.90	33.21	0.31	1,091.75	--	--	--	--	--	--	--	--	--	--
	6/17/92	1,124.71	33.25	33.44	0.19	1,091.42	--	--	--	--	--	--	--	--	--	--
	7/7/92	1,124.71	--	31.40	--	1,093.31	--	--	--	--	--	--	--	--	--	--
	10/5/92	1,124.71	--	32.40	--	1,092.31	27,000	19,000	--	120,000	4,300	11,000	620	72,000	--	870
	3/19/93	1,124.71	--	30.99	--	1,093.72	44,000	15,000	--	55,000	5,100	13,000	800	6,500	--	200
	6/17/93	1,124.71	--	30.69	--	1,094.02	95,000	26,000	--	54,000	2,700	9,500	730	6,400	--	360
	9/10/93	1,124.71	--	29.96	--	1,094.75	31,000	3,300	--	81,000	5,400	8,500	380	3,600	--	32
	11/19/93	1,124.71	--	31.42	--	1,093.29	18,000	3,300	--	92,000	9,800	22,000	1,300	10,000	--	8.2
	3/10/94	1,124.71	--	30.94	--	1,093.77	95,000	9,200	--	82,000	7,500	15,000	1,300	10,000	--	230
	5/8/94	1,124.71	--	31.39	--	1,093.32	68,000	11,000	--	120,000	8,500	19,000	1,400	11,000	--	54
	8/24/94	1,124.71	--	32.65	--	1,092.06	21,000	7,100	--	15,000	1,100	120	38	1,600	--	29
	11/16/94	1,124.71	--	30.61	--	1,094.10	840,000	18,000	--	62,000	6,000	9,500	700	6,100	--	35
	2/22/95	1,124.71	--	29.14	--	1,095.57	37,000	2,800	ND	22,000	420	1,300	180	1,800	--	23

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead		
MW-6 (cont.)																		
	5/9-10/95	1,124.71	--	27.30	--	1,097.41	--	1,200	ND	37,000	1,600	7,700	320	4,600	--	ND		
	8/15/95	1,124.71	--	27.74	--	1,096.97	--	3,800	ND	54,000	3,100	11,000	700	6,300	--	--		
	11/6/95	1,124.71	--	25.68	--	1,099.03	--	6,100	1,100	69,000	3,000	9,800	810	12,000	--	--		
	2/27/96	1,124.71	--	24.63	--	1,100.08	--	760	ND	2,200	110	17	6.6	370	--	--		
	8/13/96	1,124.71	--	23.50	--	1,101.21	--	3,100	ND	6,340	334	27.5	70.9	1,250	--	--		
	2/11/97	1,124.71	--	27.50	--	1,097.21	--	890	ND	329	63.3	13.6	2.61	57.8	--	--		
	9/23/97	1,124.71	--	23.65	--	1,101.06	--	ND	ND	603	9.26	ND	1.12	40.2	--	--		
	3/3/98	1,124.71	--	21.40	--	1,103.31	--	ND	ND	839	3.57	0.937	2.09	10.7	--	--		
	9/23/98	1,124.71	--	20.50	--	1,104.21	--	287	ND	5,040	26.2	ND	ND	185	ND	--		
	3/20/99	1,124.71	--	22.62	0.00	1,102.09	--	1,420	2,040	6,490	105	6.31	18.4	335	--	--		
	9/2/99	1,124.71	--	25.32	0.00	1,099.39	--	860	ND	1,360	87.2	ND	ND	7.61	--	--		
	5/10/00	1,124.71	--	26.27	0.00	1,098.44	--	--	--	--	--	--	--	--	--	--		
	2/19/01	1,124.71	--	27.42	--	1,097.29	--	--	--	--	--	--	--	--	--	--		
	5/25/01	1,124.71	--	29.09	0.00	1,095.62	--	21,000	<25,000	180,000	1,300	<1,000	<1,000	<1,000	<5,000	--		
	6/1/01	1,124.71	--	28.89	0.00	1,095.82	--	--	--	--	--	--	--	--	--	--		
	6/19/01	1,124.71	--	29.59	0.00	1,095.12	--	774	<500	8,610	974	21.2	239	77.9	209/<50.0 ⁷	--		
	8/17/01	1,124.71	--	29.55	0.00	1,095.16	--	--	--	--	--	--	--	--	--	--		
	9/21/01	1,124.71	--	29.67	0.00	1,095.04	--	--	--	--	--	--	--	--	--	--		
	11/9/01	1,124.71	--	29.76	0.00	1,094.95	--	1,200	<750	8,890	1,280	26.4	292	21.2	--	--		
	11/14/01	1,124.71	--	29.73	0.00	1,094.98	--	--	--	--	--	--	--	--	--	--		
	1/24/02	1,124.71	--	30.57	0.00	1,094.14	--	836	<500	8,860	1,520	18.3	438	<20.0	--	--		
	5/19/02	1,124.71	--	29.15	0.00	1,095.56	--	12,000	<5,000	6,600	720	8.7	200	16	<10	--		
	7/16/02	1,124.71	--	29.92	0.00	1,094.79	--	20,000	<8,000	6,000	1,300	23	440	<15	<2.5	--		
	11/11/02	1,124.71	--	30.75	0.00	1,093.96	--	6,700	<990	5,300	1,100	15	340	18	<50	--		
	2/24/03	1,124.71	--	31.09	0.00	1,093.62	--	4,600	480	4,000	1,100	12	280	14	<10	--		
	4/1-4/03	1,124.71	--	31.00	0.00	1,093.71	--	4,400	<480	5,400	1,200	10	200	14	<50/<2 ⁷	--		
	7/1/03	1,124.71	--	32.05	0.00	1,092.66	--	--	--	--	--	--	--	--	--	--		
	7/15/03	1,124.71	--	32.15	0.00	1,092.56	--	--	--	3,200	73	3.5	46	14	<5.0	--		
	10/23/03	1,124.71	--	31.84	0.00	1,092.87	--	3,600	1,900	2,000	160.0	2.3	32	<10	--	4.7 ⁸		
	1/13/04	1,124.71	--	33.34	0.00	1,091.37	--	18,000	4,300	4,500	110	6.7	58	15	<5.0	7.8 ⁸		
	4/14/04	1,124.71	--	32.56	0.00	1,092.15	--	4,200	420	1,700	600	4.7	47	12	<10	8.9 ⁸		
	7/13/04	1,124.71	--	33.06	0.00	1,091.65	--	2,200	<480	2,200	750	12	95	36	<50	3.7 ⁸		
	10/13/04	1,124.71	--	32.43	0.00	1,092.28	--	560	<100	660	160	2.2	24	6.6	<20	11.1 ⁸		
	1/12/05	1,124.71	--	32.78	0.00	1,091.93	--	1,300	<100	1,400	180	3.5	35	11	--	7.6 ⁸		
	5/2/05	1,124.71	--	34.30	0.00	1,090.41	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									--	--
	7/13/05	1,124.71	--	34.51	1.00	1,091.00	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									--	--
	10/26/05	1,124.71	--	33.11	1.00	1,092.40	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									--	--
	3/14/06	1,124.71	--	30.45	0.00	1,094.26	--	3,400	<1,100	460	30	1.2	<2.0	<5.0	--	--		
	5/22/06	1,124.71	--	30.41	0.00	1,094.30	--	1,900	140	510	20	1.1	0.5	2.8	--	--		
	10/3/06	1,124.71	--	30.30	0.00	1,094.41	--	2,500	220	410	11	0.5	0.8	3.8	--	--		
	5/23/07	1,124.71	--	29.93	0.00	1,094.78	--	2,700	370	670	12	1.1	0.9	3.1	--	--		
	11/6/07	1,124.71	--	28.79	0.00	1,095.92	--	1,100	330	340	14	1.4	1.7	2.9	--	--		

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590
232 East Woodin Avenue
Chelan, Washington
Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead		
MW-6 (cont.)																		
	5/15/08	1,124.71	--	31.02	0.00	1,093.69	--	1,600	<200	1,100	60	2.3	3.5	4.3	--	--		
	5/18-19/09	1,124.71	--	33.07	0.00	1,091.64	--	1,100	<80	490	2.7	0.8	0.6	3.2	--	--		
	5/18-20/10	1,124.71	--	33.77	0.00	1,090.94	--	540	<73	220	0.9	<0.5	<0.5	<1.5	--	--		
	5/5/11	1,124.71	--	31.90	0.00	1,092.81	--	310	93.00	80	1.3	0.9	<0.5	<1.5	--	--		
	5/21/12	1,124.71	--	35.62	0.00	1,089.09	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									--	--
	5/15/13	1,124.71	--	33.04	0.00	1,091.67	--	340	<67	210	2.0	1.3	<0.5	<1.5	--	--		
	5/5/14	1,124.71	--	35.31	0.00	1,089.40	--	NOT SAMPLED DUE TO INSUFFICIENT WATER									--	--
	6/17/15	1,124.71	--	30.61	0.00	1,094.10	--	<28/2,200	<66/390	340	3.0	0.8	<2.0	2.0	--	--		
	9/21/15	1,124.71	--	29.55	0.00	1,095.16	--	<28/2,200	<66/470	1,100	16	<0.5	1.8	4.1	--	--		
MW-7																		
	1/9/92	1,124.84	--	31.09	--	1,093.75	--	ND	--	110,000	18,000	31,000	2,300	13,000	--	6.7		
	1/24/92	1,124.84	--	31.87	--	1,092.97	--	--	--	--	--	--	--	--	--	--		
	2/5/92	1,124.84	31.62	32.13	0.51	1,093.12	--	--	--	--	--	--	--	--	--	--		
	3/10/92	1,124.84	31.51	32.14	0.63	1,093.20	--	--	--	--	--	--	--	--	--	--		
	5/19/92	1,124.84	31.08	32.04	0.96	1,093.57	--	--	--	--	--	--	--	--	--	--		
	6/3/92	1,124.84	31.54	32.34	0.80	1,093.14	--	--	--	--	--	--	--	--	--	--		
	6/17/92	1,124.84	32.71	33.00	0.29	1,092.07	--	--	--	--	--	--	--	--	--	--		
	7/7/92	1,124.84	--	32.14	--	1,092.70	--	--	--	--	--	--	--	--	--	--		
	10/5/92	1,124.84	--	32.03	--	1,092.81	160,000	31,000	--	170,000	3,800	7,100	2,200	11,000	--	210		
	3/19/93	1,124.84	--	31.24	--	1,093.60	120,000	42,000	--	6,300	4,300	8,000	970	7,000	--	1,400		
	6/17/93	1,124.84	--	31.26	--	1,093.58	--	69,000	--	46,000	8,300	13,000	810	5,900	--	40		
	9/10/93	1,124.84	--	30.63	--	1,094.21	62,000	83,000	--	110,000	7,900	12,000	1,300	9,100	--	970		
	11/19/93	1,124.84	--	31.56	--	1,093.28	310,000	130,000	--	86,000	11,000	18,000	1,400	9,500	--	840		
	3/10/94	1,124.84	--	31.66	--	1,093.18	4,500,000	93,000	--	130,000	11,000	16,000	2,000	14,000	--	860		
	5/8/94	1,124.84	32.09	32.95	0.86	1,092.58	--	--	--	--	--	--	--	--	--	--		
	8/24/94	1,124.84	31.73	33.10	1.37	1,092.84	--	--	--	--	--	--	--	--	--	--		
	11/16/94	1,124.84	--	31.07	--	1,093.77	180,000	120,000	--	110,000	13,000	20,000	1,800	13,000	--	47		
	2/22/95	1,124.84	--	30.20	--	1,094.64	180,000	16,000	ND	95,000	6,200	11,000	1,300	12,000	--	22		
	5/9-10/95	1,124.84	--	28.60	--	1,096.24	--	61,000	ND	1,000,000	6,100	30,000	12,000	98,000	--	96		
	8/15/95	1,124.84	--	26.68	--	1,098.16	--	17,000	ND	520,000	2,500	2,500	3,300	26,000	--	--		
	11/6/95	1,124.84	--	25.40	--	1,099.44	--	5,600	1,500	15,000	250	110	240	2,700	--	--		
	2/27/96	1,124.84	--	24.47	--	1,100.37	--	2,100	ND	16,000	110	62	210	2,800	--	--		
	8/13/96	1,124.84	--	24.13	--	1,100.71	--	3,000	996	20,500	137	37.1	162	2,020	--	--		
	2/11/97	1,124.84	--	22.60	--	1,102.24	--	6,700	1,340	2,780	6.97	ND	22.7	110	--	--		
	9/23/97	1,124.84	--	22.77	--	1,102.07	--	829	ND	6,590	29	9.08	84.9	441	--	--		
	3/3/98	1,124.84	--	--	--	1,124.84	--	--	--	--	--	--	--	--	--	--		
	9/23/98	1,124.84	--	21.20	--	1,103.64	--	554	ND	410	9.07	2.75	1.21	5.01	ND	--		
	3/20/99	1,124.84	22.21	22.39	0.18	1,102.45	--	13,000	1,790	788,000	702	ND	3,920	22,200	--	--		
	9/2/99	1,124.84	23.97	23.99	0.02	1,100.87	--	19,900	ND ⁷	174,000	ND ⁷	ND	ND	1,970	--	--		
	5/10/00	1,124.84	26.16	26.95	0.79	1,098.52	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--	
	11/11/00 ⁶	1,124.84	26.54	27.50	0.96	1,098.11	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--	
	2/26/01	1,124.84	27.71	28.01	0.30	1,097.07	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-7 (cont.)																
	5/25/01	1,124.84	28.14	29.32	1.18	1,096.46	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	6/1/01	1,124.84	28.09	28.75	0.66	1,096.62	--	--	--	--	--	--	--	--	--	--
	6/4/01	1,124.84	28.99	29.15	0.16	1,095.82	--	--	--	--	--	--	--	--	--	--
	6/18/01	1,124.84	28.94	29.24	0.30	1,095.84	--	--	--	--	--	--	--	--	--	--
	6/19/01	1,124.84	29.32	29.40	0.08	1,095.50	--	--	--	--	--	--	--	--	--	--
	8/17/01	1,124.84	--	29.15	0.00	1,095.69	--	316,000	<100,000	373,000	280	<100	741	1,440	--	--
	9/21/01	1,124.84	--	29.27	0.00	1,095.57	--	--	--	--	--	--	--	--	--	--
	10/4/01	1,124.84	29.32	29.34	0.02	1,095.52	--	--	--	--	--	--	--	--	--	--
	11/9/01	1,124.84	29.31	29.35	0.04	1,095.52	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	11/14/01	1,124.84	29.30	29.31	0.01	1,095.54	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,124.84	28.90	28.93	0.03	1,095.93	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	3/5/02	1,124.84	28.91	28.91	0.01	1,095.94	--	--	--	--	--	--	--	--	--	--
	4/26/02	1,124.84	27.20	27.69	0.49	1,097.54	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,124.84	27.61	27.64	0.03	1,097.22	--	--	--	--	--	--	--	--	--	--
	6/14/02	1,124.84	29.01	29.01	0.01	1,095.84	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,124.84	INACCESSIBLE - CAR PARKED OVER WELL													
	9/20/02	1,124.84	29.41	29.45	0.04	1,095.42	--	--	--	--	--	--	--	--	--	--
	10/23/02	1,124.84	30.26	30.3	0.04	1,094.57	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,124.84	30.63	30.67	0.04	1,094.20	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	1/4/03	1,124.84	30.11	30.14	0.03	1,094.72	--	--	--	--	--	--	--	--	--	--
	2/3/03	1,124.84	30.14	30.18	0.04	1,094.69	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,124.84	31.33	31.37	0.04	1,093.50	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	4/1-4/03	1,124.84	28.56	28.6	0.04	1,096.27	--	--	--	--	--	--	--	--	--	--
	5/14/03	1,124.84	27.66	27.70	0.04	1,097.17	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,124.84	27.61	27.64	0.03	1,097.22	--	--	--	--	--	--	--	--	--	--
	7/1/03	1,124.84	31.29	31.33	0.04	1,093.54	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,124.84	31.42	31.45	0.03	1,093.41	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	8/8/03	1,124.84	33.45	33.48	0.03	1,091.38	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,124.84	32.36	32.39	0.03	1,092.47	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,124.84	30.70	30.73	0.03	1,094.13	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,124.84	32.01	32.04	0.03	1,092.82	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,124.84	31.44	31.47	0.03	1,093.39	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,124.84	31.33	31.39	0.06	1,093.50	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	1/13/04	1,124.84	31.60	31.70	0.10	1,093.22	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	2/18/04	1,124.84	31.60	31.63	0.03	1,093.23	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,124.84	--	31.78	<0.01	1,093.06	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,124.84	32.22	32.27	0.05	1,092.61	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	5/10/04	1,124.84	32.34	32.41	0.07	1,092.49	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,124.84	32.58	32.71	0.13	1,092.23	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,124.84	32.27	32.33	0.06	1,092.56	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,124.84	32.16	32.19	0.03	1,092.67	--	--	--	--	--	--	--	--	--	--
	9/15/2004 ⁶	1,124.84	--	32.11	0.00	1,092.73	--	--	--	--	--	--	--	--	--	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-7 (cont.)																
	10/13/2004 ⁶	1,124.84	--	31.94	0.00	1,092.90	--	--	--	--	--	--	--	--	--	--
	11/17/2004 ⁶	1,124.84	--	31.84	0.00	1,093.00	--	--	--	--	--	--	--	--	--	--
	1/13/2005 ⁶	1,124.84	--	32.60	0.00	1,092.24	--	--	--	--	--	--	--	--	--	--
	2/18/2005 ⁶	1,124.84	--	32.71	0.00	1,092.13	--	--	--	--	--	--	--	--	--	--
	3/29/2005 ⁶	1,124.84	--	33.32	0.00	1,091.52	--	--	--	--	--	--	--	--	--	--
	5/2-5/5/05 ⁶	1,124.84	33.95	34.62	0.67	1,090.76	--	--	--	--	--	--	--	--	--	--
	6/2/2005 ⁶	1,124.84	--	34.04	0.00	1,090.80	--	--	--	--	--	--	--	--	--	--
	7/13/2005 ⁶	1,124.84	--	34.11	0.00	1,090.73	--	--	--	--	--	--	--	--	--	--
	9/15/2005 ⁶	1,124.84	--	33.53	0.00	1,091.31	--	--	--	--	--	--	--	--	--	--
	10/26/2005 ⁶	1,124.84	--	33.18	0.00	1,091.66	--	--	--	--	--	--	--	--	--	--
	1/18/2006 ⁶	1,124.84	--	32.56	0.00	1,092.28	--	--	--	--	--	--	--	--	--	--
	2/27/06	1,124.84	--	31.01	0.00	1,093.83	--	--	--	--	--	--	--	--	--	--
	3/13/06	1,124.84	--	30.95	0.00	1,093.89	--	--	--	--	--	--	--	--	--	--
	4/19/06	1,124.84	--	29.96	0.00	1,094.88	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,124.84	--	27.74	0.00	1,097.10	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,124.84	--	29.32	0.00	1,095.52	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,124.84	--	28.87	0.00	1,095.97	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,124.84	--	28.55	0.00	1,096.29	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,124.84	27.82	27.83	0.01	1,097.02	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,124.84	28.95	29.21	0.26	1,095.84	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,124.84	30.09	30.40	0.31	1,094.69	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,124.84	29.92	30.09	0.17	1,094.89	--	--	--	--	--	--	--	--	--	--
	2/3-4/09	1,124.84	31.02	31.22	0.20	1,093.78	--	--	--	--	--	--	--	--	--	--
	5/18-19/09 ⁶	1,124.84	32.88	33.00	0.12	1,091.94	--	--	--	--	--	--	--	--	--	--
	6/29/09 ⁶	1,124.84	--	32.97	0.00	1,091.87	--	--	--	--	--	--	--	--	--	--
	7/30/09 ⁶	1,124.84	--	33.89	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
	8/28/09 ⁶	1,124.84	33.99	34.00	0.01	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
	10/02/09 ⁶	1,124.84	32.24	32.25	0.01	1,092.60	--	--	--	--	--	--	--	--	--	--
	11/10/09 ⁶	1,124.84	--	33.24	0.00	1,091.60	--	--	--	--	--	--	--	--	--	--
	12/15/09 ⁶	1,124.84	--	33.31	0.00	1,091.53	--	--	--	--	--	--	--	--	--	--
	1/22/10 ⁶	1,124.84	--	33.85	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
	03/05/10 ⁶	1,124.84	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	04/12/10 ⁶	1,124.84	--	33.96	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
	05/18-20/10 ⁶	1,124.84	--	34.00	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
	7/6/10 ⁶	1,124.84	--	33.44	0.00	1,091.40	--	--	--	--	--	--	--	--	--	--
	8/23/10 ⁶	1,124.84	--	32.76	0.00	1,092.08	--	--	--	--	--	--	--	--	--	--
	10/13/10 ⁶	1,124.84	--	31.19	0.00	1,093.65	--	--	--	--	--	--	--	--	--	--
	11/16/10 ⁶	1,124.84	31.25	31.26	0.01	1,093.59	--	--	--	--	--	--	--	--	--	--
	1/11/11 ⁶	1,124.84	--	32.01	0.00	1,092.83	--	--	--	--	--	--	--	--	--	--
	2/11/11 ⁶	1,124.84	--	32.01	0.00	1,092.83	--	--	--	--	--	--	--	--	--	--
	5/5/11 ⁶	1,124.84	--	31.14	0.00	1,093.70	--	--	--	--	--	--	--	--	--	--
	6/8/11 ⁶	1,124.84	--	31.96	0.00	1,092.88	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-7 (cont.)																	
	7/11/11	1,124.84	31.61	31.65	0.04	1,093.22	--	--	--	--	--	--	--	--	--	--	
	8/15/11 ⁶	1,124.84	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--	
	9/9/11 ⁶	1,124.84	31.00	31.08	0.08	1,093.82	--	--	--	--	--	--	--	--	--	--	
	10/12/11 ⁶	1,124.84	--	30.90	0.00	1,093.94	--	--	--	--	--	--	--	--	--	--	
	11/29/11 ⁶	1,124.84	--	30.90	0.00	1,093.94	--	--	--	--	--	--	--	--	--	--	
	12/21/11 ⁶	1,124.84	--	30.40	0.00	1,094.44	--	--	--	--	--	--	--	--	--	--	
	1/28/12 ⁶	1,124.84	--	29.22	0.00	1,095.62	--	--	--	--	--	--	--	--	--	--	
	2/24/12 ⁶	1,124.84	--	32.70	0.00	1,092.14	--	--	--	--	--	--	--	--	--	--	
	3/20/12 ⁶	1,124.84	--	32.90	0.00	1,091.94	--	--	--	--	--	--	--	--	--	--	
	4/21/12 ⁶	1,124.84	--	29.60	0.00	1,095.24	--	--	--	--	--	--	--	--	--	--	
	5/21/12	1,124.84	--	32.30	0.00	1,092.54	--	--	--	--	--	--	--	--	--	--	
	6/25/12 ⁶	1,124.84	--	33.13	0.00	1,091.71	--	--	--	--	--	--	--	--	--	--	
	7/20/12	1,124.84	--	32.80	0.00	1,092.04	--	--	--	--	--	--	--	--	--	--	
	8/24/12	1,124.84	--	33.28	0.00	1,091.56	--	--	--	--	--	--	--	--	--	--	
	12/1/12	1,124.84	--	29.60	0.00	1,095.24	--	--	--	--	--	--	--	--	--	--	
	1/17/13	1,124.84	--	29.52	0.00	1,095.32	--	--	--	--	--	--	--	--	--	--	
	2/19-20/13	1,124.84	--	31.61	0.00	1,093.23	--	--	--	--	--	--	--	--	--	--	
	3/31/13	1,124.84	--	31.48	0.00	1,093.36	--	--	--	--	--	--	--	--	--	--	
	4/28/13	1,124.84	--	31.61	0.00	1,093.23	--	--	--	--	--	--	--	--	--	--	
	5/15/13	1,124.84	--	31.23	0.00	1,093.61	--	2,400	320	16,000	29	<21	28	<44	--	--	
	6/29/13	1,124.84	--	32.97	0.00	1,091.87	--	--	--	--	--	--	--	--	--	--	
	7/30/13	1,124.84	--	33.11	0.00	1,091.73	--	--	--	--	--	--	--	--	--	--	
	8/12/13	1,124.84	--	29.19	0.00	1,095.65	--	--	--	--	--	--	--	--	--	--	
	10/29/13	1,124.84	--	33.29	0.00	1,091.55	--	--	--	--	--	--	--	--	--	--	
	11/26/13	1,124.84	--	33.22	0.00	1,091.62	--	--	--	--	--	--	--	--	--	--	
	12/28/13	1,124.84	--	31.98	0.00	1,092.86	--	--	--	--	--	--	--	--	--	--	
	1/27/14	1,124.84	--	33.12	0.00	1,091.72	--	--	--	--	--	--	--	--	--	--	
	2/19/14	1,124.84	--	34.18	0.00	1,090.66	--	--	--	--	--	--	--	--	--	--	
	3/17/14	1,124.84	--	29.13	0.00	1,095.71	--	--	--	--	--	--	--	--	--	--	
	4/15/14	1,124.84	--	29.88	0.00	1,094.96	--	--	--	--	--	--	--	--	--	--	
	5/6/14	1,124.84	--	33.71	0.00	1,091.13	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--	--	--	
	6/18/14	1,124.84	--	32.66	0.00	1,092.18	--	--	--	--	--	--	--	--	--	--	
	7/14/14	1,124.84	--	31.13	0.00	1,093.71	--	--	--	--	--	--	--	--	--	--	
	8/4/14	1,124.84	--	33.31	0.00	1,091.53	--	--	--	--	--	--	--	--	--	--	
	9/23/14	1,124.84	--	32.99	0.00	1,091.85	--	--	--	--	--	--	--	--	--	--	
	10/13/14	1,124.84	--	33.37	0.00	1,091.47	--	--	--	--	--	--	--	--	--	--	
	11/12/14	1,124.84	--	33.41	0.00	1,091.43	--	--	--	--	--	--	--	--	--	--	
	12/22/14	1,124.84	--	32.38	0.00	1,092.46	--	--	--	--	--	--	--	--	--	--	
	1/18-19/15	1,124.84	INACCESSIBLE- FROZEN SHUT				--	--	--	--	--	--	--	--	--	--	--
	2/10/15	1,124.84	--	29.40	0.00	1,095.44	--	--	--	--	--	--	--	--	--	--	
	6/17/15	1,124.84	--	29.61	0.00	1,095.23	--	2,300/3,500	290/760	2,000	15	5.0	14	<7.0	--	--	
	9/21/15	1,124.84	--	28.77	0.00	1,096.07	--	1,700/3,600	140/690	37,000	12	6.2	33	31	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-8																	
	1/9/92	1,123.92	--	27.43	--	1,096.49	--	ND	--	4,000	66	3.3	ND	150	--	ND	
	1/24/92	1,123.92	--	27.64	--	1,096.28	--	--	--	--	--	--	--	--	--	--	
	2/5/92	1,123.92	--	28.03	--	1,095.89	--	--	--	--	--	--	--	--	--	--	
	3/10/92	1,123.92	--	28.81	--	1,095.11	ND	ND	--	ND	2.1	1.2	3.0	17	--	ND	
	5/19/92	1,123.92	--	29.60	--	1,094.32	--	--	--	--	--	--	--	--	--	--	
	6/3/92	1,123.92	--	29.77	--	1,094.15	--	--	--	--	--	--	--	--	--	--	
	6/17/92	1,123.92	--	29.94	--	1,093.98	1,200	--	--	6,000	1.8	5.0	3.8	28	--	14	
	10/5/92	1,123.92	--	29.40	--	1,094.52	3,500	--	--	3,000	3.0	ND	1.3	2.7	--	4.0	
	3/19/93	1,123.92	--	29.13	--	1,094.79	ND	ND	--	190	2.7	1.7	ND	1.3	--	16	
	6/17/93	1,123.92	--	28.99	--	1,094.93	ND	ND	--	ND	3.5	ND	ND	ND	--	8.6	
	9/10/93	1,123.92	--	28.44	--	1,095.48	ND	ND	--	ND	2.8	ND	ND	ND	--	ND	
	11/19/93	1,123.92	--	29.01	--	1,094.91	ND	ND	--	ND	1.6	ND	ND	0.6	--	ND	
	3/10/94	1,123.92	--	29.39	--	1,094.53	ND	ND	--	300	2.0	ND	0.6	1.1	--	6.8	
	5/8/94	1,123.92	--	29.95	--	1,093.97	1,400	ND	--	460	2.0	ND	1.3	2.4	--	ND	
	8/24/94	1,123.92	--	29.15	--	1,094.77	8,600	1,500	--	6,200	23	4.0	5.6	65	--	4.6	
	11/16/94	1,123.92	--	28.37	--	1,095.55	24,000	4,500	--	4,100	4.7	ND	6.5	19	--	ND	
	2/22/95	1,123.92	--	27.54	--	1,096.38	70,000	4,700	ND	550	28	ND	ND	1.5	--	9.5	
	5/9-10/95	1,123.92	--	26.17	--	1,097.75	--	2,100	ND	480	9.8	0.5	ND	2.6	--	ND	
	8/15/95	1,123.92	--	21.63	--	1,102.29	--	8,600	780	ND	ND	ND	ND	ND	--	--	
	11/6/95	1,123.92	--	21.31	--	1,102.61	--	600	ND	ND	ND	ND	ND	ND	--	--	
	2/27/96	1,123.92	--	20.87	--	1,103.05	--	430	ND	ND	ND	ND	ND	ND	--	--	
	8/13/96	1,123.92	--	20.90	--	1,103.02	--	508	ND	ND	ND	ND	ND	ND	--	--	
	2/11/97	1,123.92	INACCESSIBLE - DUE TO SNOW				--	--	--	--	--	--	--	--	--	--	--
	9/23/97	1,123.92	--	20.32	--	1,103.60	--	ND	ND	ND	ND	ND	ND	ND	--	--	
	3/3/98	1,123.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/23/98	1,123.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/10/00	1,123.92	--	21.22	0.00	1,102.70	--	--	--	--	--	--	--	--	--	--	
	2/19/01	1,123.92	--	21.49	0.00	1,102.43	--	--	--	--	--	--	--	--	--	--	
	6/1/01	1,123.92	--	24.98	0.00	1,098.94	--	--	--	--	--	--	--	--	--	--	
	6/19/01	1,123.92	--	25.72	0.00	1,098.20	--	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--	
	11/9/01	1,123.92	--	26.49	0.00	1,097.43	--	589	<750	<100	2.65	<1.00	<1.00	<1.50	--	--	
	1/24/02	1,123.92	--	26.31	0.00	1,097.61	--	<250	<500	89.7	3.00	<0.500	<0.500	2.09	--	--	
	5/19/02	1,123.92	--	24.88	0.00	1,099.04	--	<400	<1,000	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	7/16/02	1,123.92	--	26.16	0.00	1,097.76	--	<250	<750	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
	11/11/02	1,123.92	--	27.45	0.00	1,096.47	--	<250	<250	<50	4.0	<0.50	<0.50	<1.5	<2.5	--	
	2/24/03	1,123.92	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,123.92	--	27.98	0.00	1,095.94	--	<250	<250	<50	3.1	<0.5	<0.5	<1.5	--	--	
	7/1/03	1,123.92	--	28.98	0.00	1,094.94	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,123.92	--	29.03	0.00	1,094.89	--	<250	<250	<50	1.9	<0.5	<0.5	<1.5	--	--	
	10/23/03	1,123.92	--	28.41	0.00	1,095.51	--	<400	<500	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	1/13/04	1,123.92	--	28.90	0.00	1,095.02	--	<800	<1,000	<50	0.6	<0.2	<0.2	<0.6	--	--	
	4/13/04	1,123.92	--	29.24	0.00	1,094.68	--	<75	<94	<50	1.4	<0.5	<0.5	<1.5	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-8 (cont.)																
	7/12/04	1,123.92	--	29.82	0.00	1,094.10	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,123.92	--	28.86	0.00	1,095.06	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,123.92	--	29.28	0.00	1,094.64	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,123.92	--	30.79	0.00	1,093.13	--	<79	<99	<48	1.0	<0.5	<0.5	<1.5	<2.5	--
	7/13/05	1,123.92	--	30.87	1.00	1,093.85	--	<83	<100	<48	1.0	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	10/26/05	1,123.92	--	29.71	1.00	1,095.01	--	<78	<98	<48	2.0	<0.5	<0.5	<1.5	--	<0.87 ⁸
	3/14/06	1,123.92	--	27.43	0.00	1,096.49	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,123.92	--	26.77	0.00	1,097.15	--	<91	<110	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/2/06	1,123.92	--	26.26	0.00	1,097.66	--	--	--	--	--	--	--	--	--	--
	5/23/07	1,123.92	--	25.62	0.00	1,098.30	--	85	150	56	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/08	1,123.92	--	27.56	0.00	1,096.36	--	<76	<95	64	<0.5	<0.5	<0.5	2.20	--	--
	5/18-19/09	1,123.92	--	30.25	0.00	1,093.67	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	1,123.92	--	30.56	0.00	1,093.36	--	68	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	1,123.92	--	28.80	0.00	1,095.12	--	45	210	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	1,123.92	--	30.35	0.00	1,093.57	--	<31	<72	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/13	1,123.92	--	29.82	0.00	1,094.10	--	160	270	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/7/14	1,123.92	--	30.32	0.00	1,093.60	--	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/17/15	1,123.92	--	27.04	0.00	1,096.88	--	<28/80	<66/100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,123.92	--	25.89	0.00	1,098.03	--	<28/150	<66/<66	66	<0.5	<0.5	<0.5	<1.5	--	--
MW-9																
	1/24/02	1,122.39	37.34	37.39	0.05	1,085.04	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	3/5/02	1,122.39	--	36.85	0.00	1,085.54	--	--	--	--	--	--	--	--	--	--
	4/26/02	1,122.39	34.16	34.67	0.51	1,088.13	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,122.39	37.05	37.50	0.45	1,085.25	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	6/13/02	1,122.39	38.45	38.95	0.50	1,083.84	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,122.39	38.11	38.66	0.55	1,084.17	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	8/21/02	1,122.39	38.40	38.96	0.56	1,083.88	--	--	--	--	--	--	--	--	--	--
	9/20/02	1,122.39	38.41	38.81	0.40	1,083.90	--	--	--	--	--	--	--	--	--	--
	10/23/02	1,122.39	38.34	38.74	0.40	1,083.97	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,122.39	38.76	39.35	0.59	1,083.51	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	1/4/03	1,122.39	38.31	38.70	0.39	1,084.00	--	--	--	--	--	--	--	--	--	--
	2/3/03	1,122.39	38.21	38.73	0.52	1,084.08	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,122.39	38.89	39.32	0.43	1,083.41	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	4/4/03	1,122.39	36.89	37.35	0.46	1,085.41	--	--	--	--	--	--	--	--	--	--
	5/14/03	1,122.39	32.39	32.95	0.56	1,089.89	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,122.39	32.32	32.86	0.54	1,089.96	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,122.39	39.61	39.95	0.34	1,082.71	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,122.39	39.68	39.99	0.31	1,082.65	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	8/8/03	1,122.39	39.62	40.00	0.38	1,082.69	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,122.39	39.71	40.25	0.54	1,082.57	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,122.39	39.60	39.95	0.35	1,082.72	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,122.39	39.68	39.98	0.30	1,082.65	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-9 (cont.)																
	10/23/03	1,122.39	39.57	39.90	0.33	1,082.75	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	11/6/03	1,122.39	39.75	39.95	0.20	1,082.60	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,122.39	39.51	39.58	0.07	1,082.87	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,122.39	39.82	39.94	0.12	1,082.55	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	2/18/04	1,122.39	39.90	39.95	0.05	1,082.48	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,122.39	--	40.20	<0.01	1,082.19	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,122.39	39.97	40.16	0.19	1,082.38	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	5/10/04	1,122.39	40.32	40.44	0.12	1,082.05	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,122.39	40.38	40.48	0.10	1,081.99	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,122.39	40.41	40.48	0.07	1,081.97	--	--	--	--	--	--	--	--	--	--
	10/13/04 ⁶	1,122.39	--	40.45	0.00	1,081.94	--	--	--	--	--	--	--	--	--	--
	11/17/04 ⁶	1,122.39	--	40.25	0.00	1,082.14	--	--	--	--	--	--	--	--	--	--
	1/21/05 ⁶	1,122.39	--	40.37	0.00	1,082.02	--	--	--	--	--	--	--	--	--	--
	2/18/05 ⁶	1,122.39	--	40.37	0.00	1,082.02	--	--	--	--	--	--	--	--	--	--
	3/29/05 ⁶	1,122.39	40.42	40.57	0.15	1,081.94	--	--	--	--	--	--	--	--	--	--
	5/5/05 ⁶	1,122.39	--	40.42	0.00	1,081.97	--	--	--	--	--	--	--	--	--	--
	6/2/05 ⁶	1,122.39	--	40.42	0.00	1,081.97	--	--	--	--	--	--	--	--	--	--
	7/13/05 ⁶	1,122.39	--	40.42	0.00	1,081.97	--	--	--	--	--	--	--	--	--	--
	9/15/05 ⁶	1,122.39	--	40.45	0.00	1,081.94	--	--	--	--	--	--	--	--	--	--
	10/26/05 ⁶	1,122.39	--	40.46	0.00	1,081.93	--	--	--	--	--	--	--	--	--	--
	2/27/06 ⁶	1,122.39	--	38.38	0.00	1,084.01	--	--	--	--	--	--	--	--	--	--
	4/19/06 ⁶	1,122.39	--	39.20	0.00	1,083.19	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,122.39	38.09	38.22	0.13	1,084.27	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,122.39	37.86	38.33	0.47	1,084.44	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,122.39	38.24	38.83	0.59	1,084.03	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,122.39	37.20	38.51	1.31	1,084.93	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,122.39	--	36.92	0.00	1,085.47	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,122.39	37.25	40.45	3.20	1,084.50	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,122.39	38.02	39.34	1.32	1,084.11	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,122.39	39.01	40.19	1.18	1,083.14	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,122.39	38.92	39.26	0.34	1,083.40	--	--	--	--	--	--	--	--	--	--
	2/4/09	1,122.39	39.71	40.26	0.55	1,082.57	--	--	--	--	--	--	--	--	--	--
	5/19/09	1,122.39	39.70	40.22	0.52	1,082.59	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,122.39	39.73	40.22	0.49	1,082.56	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,122.39	40.46	40.49	0.03	1,081.92	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,122.39	39.70	39.72	0.02	1,082.69	--	--	--	--	--	--	--	--	--	--
	10/13/10	1,122.39	38.54	38.55	0.02	1,083.86	--	--	--	--	--	--	--	--	--	--
	11/16/10	1,122.39	38.72	38.73	0.01	1,083.67	--	--	--	--	--	--	--	--	--	--
	1/11/11	1,122.39	39.02	39.60	0.58	1,083.25	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,122.39	39.89	39.94	0.05	1,082.49	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,122.39	39.45	40.41	0.96	1,082.75	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,122.39	39.22	40.20	0.98	1,082.97	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-9 (cont.)																
	7/11/11	1,122.39	38.97	39.70	0.73	1,083.27	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,122.39	38.36	39.25	0.89	1,083.85	--	--	--	--	--	--	--	--	--	--
	9/9/11	1,122.39	38.10	38.75	0.65	1,084.16	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,122.39	37.60	38.70	1.10	1,084.57	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,122.39	30.55	-- ⁹	9.97	--	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,122.39	38.05	40.50	2.45	1,083.85	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,122.39	38.08	-- ⁹	2.44	--	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,122.39	39.20	40.45	1.25	1,082.94	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,122.39	39.20	40.00	0.80	1,083.03	--	--	--	--	--	--	--	--	--	--
	4/21/12	1,122.39	37.25	40.51	3.26	1,084.49	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,122.39	39.90	-- ⁹	0.62	--	--	--	--	--	--	--	--	--	--	--
	6/25/12 ⁶	1,122.39	39.83	-- ⁹	0.69	--	--	--	--	--	--	--	--	--	--	--
	7/20/12 ⁶	1,122.39	38.90	-- ⁹	1.62	--	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,122.39	39.15	-- ⁹	1.37	--	--	--	--	--	--	--	--	--	--	--
	12/1/12	1,122.39	38.72	-- ⁹	1.80	--	--	--	--	--	--	--	--	--	--	--
	1/17/13	1,122.39	38.67	-- ⁹	1.85	--	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,122.39	38.94	-- ⁹	1.58	--	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,122.39	38.90	-- ⁹	1.62	--	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,122.39	38.88	39.96	1.08	1,083.29	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,122.39	38.83	39.93	1.10	1,083.34	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	6/29/13	1,122.39	39.76	39.78	0.02	1,082.63	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,122.39	39.83	39.98	0.15	1,082.53	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,122.39	38.88	-- ⁹	1.64	--	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,122.39	39.79	39.93	0.14	1082.57	--	--	--	--	--	--	--	--	--	--
	11/26/13	1,122.39	38.58	39.96	1.38	1083.53	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,122.39	39.04	39.96	0.92	1083.17	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,122.39	39.24	-- ⁹	1.28	--	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,122.39	39.83	-- ⁹	0.69	--	--	--	--	--	--	--	--	--	--	--
	3/17/14	1,122.39	38.53	-- ⁹	1.99	--	--	--	--	--	--	--	--	--	--	--
	4/15/14	1,122.39	37.31	-- ⁹	3.21	--	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,122.39	39.88	-- ⁹	0.64	--	--	--	--	--	--	--	--	--	--	--
	6/18/14	1,122.39	38.91	-- ⁹	1.61	--	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,122.39	39.79	-- ⁹	0.73	--	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,122.39	39.17	-- ⁹	1.35	--	--	--	--	--	--	--	--	--	--	--
	9/23/14	1,122.39	39.73	-- ⁹	0.79	--	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,122.39	39.83	-- ⁹	0.69	--	--	--	--	--	--	--	--	--	--	--
	11/13/14	1,122.39	39.91	-- ⁹	0.61	--	--	--	--	--	--	--	--	--	--	--
	12/22/14	1,122.39	38.11	40.33	2.41	1083.99	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,122.39	39.83	--	0.69	--	--	--	--	--	--	--	--	--	--	--
	2/10/15	1,122.39	38.26	--	2.26	--	--	--	--	--	--	--	--	--	--	--
	6/19/15	1,122.39	39.20	-- ⁹	1.32	--	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,122.39	35.64	38.15	4.88	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590
232 East Woodin Avenue
Chelan, Washington
Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPL ² (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-10																	
	6/4/01	1,123.69	32.89	32.92	0.03	1,090.79	--	--	--	--	--	--	--	--	--	--	
	6/18/01	1,123.69	33.40	34.45	1.05	1,090.08	--	--	--	--	--	--	--	--	--	--	
	6/19/01	1,123.69	33.55	34.15	0.60	1,090.02	--	--	--	--	--	--	--	--	--	--	
	8/17/01	1,123.69	32.95	36.85	3.90	1,089.96	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	9/21/01	1,123.69	33.71	35.92	2.21	1,089.54	--	--	--	--	--	--	--	--	--	--	
	10/4/01	1,123.69	34.14	35.75	1.61	1,089.23	--	--	--	--	--	--	--	--	--	--	
	11/9/01	1,123.69	33.46	37.05	3.59	1,089.51	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	11/14/01	1,123.69	33.41	36.73	3.32	1,089.62	--	--	--	--	--	--	--	--	--	--	
	1/24/02	1,123.69	31.55	38.15	6.60	1,090.82	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	3/6/02	1,123.69	30.87	39.25	8.38	1,091.14	--	--	--	--	--	--	--	--	--	--	
	4/26/02	1,123.69	29.77	38.48	8.71	1,092.18	--	--	--	--	--	--	--	--	--	--	
	5/19/02	1,123.69	31.66	37.10	5.44	1,090.94	--	--	--	--	--	--	--	--	--	--	
	6/14/02	1,123.69	32.66	38.29	5.63	1,089.90	--	--	--	--	--	--	--	--	--	--	
	7/16/02	1,123.69	33.50	37.20	3.70	1,089.45	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	8/21/02	1,123.69	33.90	37.88	3.98	1,088.99	--	--	--	--	--	--	--	--	--	--	
	9/20/02	1,123.69	33.50	37.85	4.35	1,089.32	--	--	--	--	--	--	--	--	--	--	
	10/23/02	1,123.69	33.50	37.85	4.35	1,089.32	--	--	--	--	--	--	--	--	--	--	
	11/11/02	1,123.69	34.06	37.88	3.82	1,088.87	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	1/4/03	1,123.69	33.51	37.67	4.16	1,089.35	--	--	--	--	--	--	--	--	--	--	
	2/3/03	1,123.69	33.46	37.27	3.83	1,089.48	--	--	--	--	--	--	--	--	--	--	
	2/24/03	1,123.69	31.29	37.78	6.49	1,091.10	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	4/1-4/03	1,123.69	32.65	36.98	4.33	1,090.17	--	--	--	--	--	--	--	--	--	--	
	5/14/03	1,123.69	30.05	37.10	7.05	1,092.23	--	--	--	--	--	--	--	--	--	--	
	6/14/03	1,123.69	29.94	36.96	7.02	1,092.35	--	--	--	--	--	--	--	--	--	--	
	6/30/03	1,123.69	31.60	37.92	6.32	1,090.83	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,123.69	31.55	37.92	6.37	1,090.87	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	8/8/03	1,123.69	32.23	37.92	5.69	1,090.32	--	--	--	--	--	--	--	--	--	--	
	8/17/03	1,123.69	34.40	37.92	3.52	1,088.59	--	--	--	--	--	--	--	--	--	--	
	9/5/03	1,123.69	34.60	⁻⁹ 4.18	--	--	--	--	--	--	--	--	--	--	--	--	
	9/17/03	1,123.69	35.30	⁻⁹ 3.48	--	--	--	--	--	--	--	--	--	--	--	--	
	10/4/04	1,123.69	35.08	⁻⁹ 3.70	--	--	--	--	--	--	--	--	--	--	--	--	
	10/23/03	1,123.69	35.45	⁻⁹ 3.33	--	--	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	11/6/03	1,123.69	35.78	37.10	1.32	1,087.65	--	--	--	--	--	--	--	--	--	--	
	11/25/03	1,123.69	35.82	36.95	1.13	1,087.64	--	--	--	--	--	--	--	--	--	--	
	1/13/04	1,123.69	35.95	⁻⁹ 2.83	--	--	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	2/18/04	1,123.69	35.65	37.60	1.95	1,087.65	--	--	--	--	--	--	--	--	--	--	
	3/16/04	1,123.69	36.10	37.46	1.36	1,087.32	--	--	--	--	--	--	--	--	--	--	
	4/13/04	1,123.69	35.91	37.60	1.69	1,087.44	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	5/10/04	1,123.69	36.14	37.55	1.41	1,087.27	--	--	--	--	--	--	--	--	--	--	
	6/15/04	1,123.69	36.78	37.82	1.04	1,086.70	--	--	--	--	--	--	--	--	--	--	
	7/12/04	1,123.69	36.60	38.18	1.58	1,086.77	--	--	--	--	--	--	--	--	--	--	
	8/17/04	1,123.69	36.50	37.91	1.41	1,086.91	--	--	--	--	--	--	--	--	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-10 (cont.)																	
	9/15/04	1,123.69	35.75	37.80	2.15	1,087.61	--	--	--	--	--	--	--	--	--	--	
	10/13/04	1,123.69	35.74	37.87	2.13	1,087.52	--	--	--	--	--	--	--	--	--	--	
	11/17/04	1,123.69	35.43	37.90	2.47	1,087.77	--	--	--	--	--	--	--	--	--	--	
	1/13/05	1,123.69	35.89	37.92	2.03	1,087.39	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									--	--
	2/18/05	1,123.69	36.01	37.92	1.91	1,087.30	--	--	--	--	--	--	--	--	--	--	
	3/29/05	1,123.69	36.92	38.00	1.08	1,086.55	--	--	--	--	--	--	--	--	--	--	
	5/2-5/05	1,123.69	37.38	37.94	0.56	1,086.20	--	--	--	--	--	--	--	--	--	--	
	6/2/05	1,123.69	37.22	38.00	0.78	1,086.31	--	--	--	--	--	--	--	--	--	--	
	7/13/05	1,123.69	37.22	38.82	1.60	1,086.15	--	--	--	--	--	--	--	--	--	--	
	9/15/05	1,123.69	36.36	37.95	1.59	1,087.01	--	--	--	--	--	--	--	--	--	--	
	10/26/05	1,123.69	36.17	37.96	1.79	1,087.16	--	--	--	--	--	--	--	--	--	--	
	1/18/06	1,123.69	36.08	37.99	1.91	1,087.23	--	--	--	--	--	--	--	--	--	--	
	2/27/06	1,123.69	33.30	37.93	4.63	1,089.46	--	--	--	--	--	--	--	--	--	--	
	3/13/06	1,123.69	35.30	37.02	1.72	1,088.05	--	--	--	--	--	--	--	--	--	--	
	4/19/06	1,123.69	34.75	37.92	3.17	1,088.31	--	--	--	--	--	--	--	--	--	--	
	5/22/06	1,123.69	34.34	37.59	3.25	1,088.70	--	--	--	--	--	--	--	--	--	--	
	10/2/06	1,123.69	30.58	37.41	6.83	1,091.74	--	--	--	--	--	--	--	--	--	--	
	12/5/06	1,123.69	29.99	37.55	7.56	1,092.19	--	--	--	--	--	--	--	--	--	--	
	5/22/07	1,123.69	28.80	37.50	8.70	1,093.15	--	--	--	--	--	--	--	--	--	--	
	7/19/07	1,123.69	28.98	37.49	8.51	1,093.01	--	--	--	--	--	--	--	--	--	--	
	11/5/07	1,123.69	31.30	37.99	6.69	1,091.05	--	--	--	--	--	--	--	--	--	--	
	2/12/08	1,123.69	29.55	37.50	7.95	1,092.55	--	--	--	--	--	--	--	--	--	--	
	5/13/08	1,123.69	31.16	37.57	6.41	1,091.25	--	--	--	--	--	--	--	--	--	--	
	10/28/08	1,123.69	29.79	37.59	7.80	1,092.34	--	--	--	--	--	--	--	--	--	--	
	2/3-4/09	1,123.69	30.91	37.59	6.68	1,091.44	--	--	--	--	--	--	--	--	--	--	
	5/18-19/09	1,123.69	32.25	37.57	5.32	1,090.38	--	--	--	--	--	--	--	--	--	--	
	6/29/09	1,123.69	35.69	-- ⁹	2.23	--	--	--	--	--	--	--	--	--	--	--	
	7/30/09	1,123.69	36.20	-- ⁹	1.72	--	--	--	--	--	--	--	--	--	--	--	
	8/28/09	1,123.69	36.47	-- ⁹	1.45	--	--	--	--	--	--	--	--	--	--	--	
	10/2/09	1,123.69	36.18	-- ⁹	1.74	--	--	--	--	--	--	--	--	--	--	--	
	11/10/09	1,123.69	36.10	-- ⁹	1.82	--	--	--	--	--	--	--	--	--	--	--	
	12/15/09	1,123.69	36.31	-- ⁹	1.61	--	--	--	--	--	--	--	--	--	--	--	
	1/22/10	1,123.69	36.10	-- ⁹	1.82	--	--	--	--	--	--	--	--	--	--	--	
	3/5/10	1,123.69	36.41	-- ⁹	1.51	--	--	--	--	--	--	--	--	--	--	--	
	4/12/10	1,123.69	36.15	-- ⁹	1.77	--	--	--	--	--	--	--	--	--	--	--	
	5/18-20/10	1,123.69	36.35	-- ⁹	1.57	--	--	--	--	--	--	--	--	--	--	--	
	7/6/10 ⁶	1,123.69	35.90	-- ⁹	2.02	--	--	--	--	--	--	--	--	--	--	--	
	8/23/10	1,123.69	32.64	-- ⁹	5.28	--	--	--	--	--	--	--	--	--	--	--	
	10/13/10	1,123.69	31.14	-- ⁹	6.78	--	--	--	--	--	--	--	--	--	--	--	
	11/16/10	1,123.69	31.85	-- ⁹	6.07	--	--	--	--	--	--	--	--	--	--	--	
	1/11/11	1,123.69	WELL BOX FILLED WITH ICE, UNABLE TO MONITOR							--	--	--	--	--	--	--	--
	2/11/11	1,123.69	WELL BOX FILLED WITH ICE, UNABLE TO MONITOR							--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-10 (cont.)																
	5/5/11	1,123.69	30.15	-- ⁹	7.77	--	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,123.69	31.65	-- ⁹	6.27	--	--	--	--	--	--	--	--	--	--	--
	7/11/11	1,123.69	30.28	-- ⁹	7.64	--	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,123.69	31.30	37.65	6.35	1,091.12	--	--	--	--	--	--	--	--	--	--
	9/9/11	1,123.69	30.85	-- ⁹	7.07	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,123.69	31.70	37.92	6.22	1,090.75	--	--	--	--	--	--	--	--	--	--
	11/29/11 ⁶	1,123.69	37.70	38.80	1.10	1,085.77	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,123.69	32.35	37.90	5.55	1,090.23	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,123.69	32.20	-- ⁹	6.60	--	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,123.69	32.45	38.70	6.25	1,089.99	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,123.69	32.30	38.60	6.30	1,090.13	--	--	--	--	--	--	--	--	--	--
	4/21/12	1,123.69	31.52	38.10	6.58	1,090.85	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,123.69	32.40	38.80	6.40	1,090.01	--	--	--	--	--	--	--	--	--	--
	6/25/12	1,123.69	36.13	38.70	2.57	1,087.05	--	--	--	--	--	--	--	--	--	--
	7/20/12	1,123.69	33.60	37.10	3.50	1,089.39	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,123.69	32.20	-- ⁹	6.60	--	--	--	--	--	--	--	--	--	--	--
	12/1/12	1,123.69	33.10	-- ⁹	5.70	--	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,123.69	32.97	-- ⁹	5.83	--	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,123.69	30.48	-- ⁹	8.32	--	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,123.69	30.62	-- ⁹	8.18	--	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,123.69	30.73	-- ⁹	8.07	--	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,123.69	30.79	-- ⁹	7.99	--	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	6/29/13	1,123.69	35.61	-- ⁹	3.17	--	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,123.69	35.91	-- ⁹	2.87	--	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,123.69	30.30	-- ⁹	8.48	--	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,123.69	35.92	-- ⁹	2.86	--	--	--	--	--	--	--	--	--	--	--
	11/26/13	1,123.69	30.26	-- ⁹	8.52	--	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,123.69	31.44	-- ⁹	7.34	--	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,123.69	33.58	-- ⁹	5.20	--	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,123.69	32.16	-- ⁹	6.62	--	--	--	--	--	--	--	--	--	--	--
	3/18/14	1,123.69	34.33	-- ⁹	4.45	--	--	--	--	--	--	--	--	--	--	--
	4/15/14	1,123.69	31.57	-- ⁹	7.21	--	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,123.69	32.52	-- ⁹	6.26	--	--	--	--	--	--	--	--	--	--	--
	6/18/14	1,123.69	34.11	-- ⁹	4.67	--	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,123.69	36.21	-- ⁹	2.57	--	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,123.69	32.19	-- ⁹	6.59	--	--	--	--	--	--	--	--	--	--	--
	9/23/14	1,123.69	35.99	-- ⁹	2.79	--	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,123.69	35.88	-- ⁹	2.90	--	--	--	--	--	--	--	--	--	--	--
	11/12/14	1,123.69	36.93	-- ⁹	1.85	--	--	--	--	--	--	--	--	--	--	--
	12/22/14	1,123.69	33.44	-- ⁹	5.34	--	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,123.69	35.91	-- ⁹	2.87	--	--	--	--	--	--	--	--	--	--	--
	2/10/15	1,123.69	32.37	-- ⁹	6.41	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-10 (cont.)																
	6/19/15	1,123.69	36.18	-- ⁹	2.60	--	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,123.69	29.45	37.55	9.33	1,093.60	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
MW-11																
	9/20/01	1,122.31	--	36.90	0.00	1,085.41	--	--	--	--	--	--	--	--	--	--
	10/4/01	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/9/01	1,122.31	--	37.05	0.00	1,085.26	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	
	11/15/01	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,122.31	--	37.11	0.00	1,085.20	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	
	3/5/02	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,122.31	--	37.10	0.00	1,085.21	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	
	11/11/02	1,122.31	--	37.15	0.00	1,085.16	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--	
	2/24/03	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/03	1,122.31	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-11D																
	11/16/01	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/5/02	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/03	1,122.15	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-12																
	9/21/01	1,122.29	28.80	28.90	0.10	1,093.47	--	--	--	--	--	--	--	--	--	--
	10/4/01	1,122.29	28.97	29.44	0.47	1,093.23	--	--	--	--	--	--	--	--	--	--
	11/9/01	1,122.29	28.61	30.08	1.47	1,093.39	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	11/15/01	1,122.29	28.40	30.43	2.03	1,093.48	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,122.29	26.81	31.49	4.68	1,094.54	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	3/6/02	1,122.29	22.99	26.72	3.73	1,098.55	--	--	--	--	--	--	--	--	--	--
	4/26/02	1,122.29	32.97	36.18	3.21	1,088.68	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,122.29	27.80	29.55	1.75	1,094.14	--	--	--	--	--	--	--	--	--	--
	6/13/02	1,122.29	29.32	31.21	1.89	1,092.59	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,122.29	29.10	30.09	0.99	1,092.99	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	8/21/02	1,122.29	29.02	30.70	1.68	1,092.93	--	--	--	--	--	--	--	--	--	--
	9/20/02	1,122.29	29.12	30.30	1.18	1,092.93	--	--	--	--	--	--	--	--	--	--
	10/23/02	1,122.29	28.21	29.26	1.05	1,093.87	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,122.29	28.59	29.65	1.06	1,093.49	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-12 (cont.)																
	1/4/03	1,122.29	28.44	29.51	1.07	1,093.64	--	--	--	--	--	--	--	--	--	--
	2/3/03	1,122.29	28.17	29.21	1.04	1,093.91	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,122.29	28.89	29.96	1.07	1,093.19	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	4/4/03	1,122.29	26.98	28.05	1.07	1,095.10	--	--	--	--	--	--	--	--	--	--
	5/14/03	1,122.29	27.71	28.77	1.06	1,094.37	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,122.29	27.63	28.66	1.03	1,094.45	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,122.29	29.96	34.79	4.83	1,091.36	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,122.29	30.00	35.75	5.75	1,091.14	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	8/8/03	1,122.29	29.92	30.94	1.02	1,092.17	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,122.29	29.37	30.38	1.01	1,092.72	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,122.29	29.94	34.80	4.86	1,091.38	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,122.29	30.10	32.80	2.79	1,091.72	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,122.29	30.11	31.75	1.64	1,091.85	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,122.29	30.28	31.65	1.37	1,091.74	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	11/6/03	1,122.29	30.46	30.99	0.53	1,091.72	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,122.29	30.40	31.70	1.30	1,091.63	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,122.29	30.38	32.10	1.72	1,091.57	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	2/18/04	1,122.29	30.12	31.20	1.08	1,091.95	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,122.29	30.26	31.95	1.69	1,091.69	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,122.29	29.73	33.70	3.97	1,091.77	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	5/10/04	1,122.29	29.87	33.70	3.83	1,091.65	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,122.29	30.35	34.14	3.79	1,091.18	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,122.29	30.19	33.50	3.31	1,091.44	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,122.29	29.82	34.06	4.24	1,091.62	--	--	--	--	--	--	--	--	--	--
	9/15/04	1,122.29	29.62	33.07	3.45	1,091.98	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,122.29	29.53	32.54	3.01	1,092.16	--	--	--	--	--	--	--	--	--	--
	11/17/04	1,122.29	29.40	32.10	2.70	1,092.35	--	--	--	--	--	--	--	--	--	--
	1/13/05	1,122.29	29.80	32.93	3.13	1,091.86	--	--	--	--	--	--	--	--	--	--
	2/18/05	1,122.29	30.25	33.05	2.80	1,091.48	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,122.29	30.77	34.80	4.03	1,090.71	--	--	--	--	--	--	--	--	--	--
	5/5/05	1,122.29	31.29	33.17	1.88	1,090.62	--	--	--	--	--	--	--	--	--	--
	6/2/05	1,122.29	31.14	32.70	1.56	1,090.84	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,122.29	31.02	33.21	2.19	1,090.83	--	--	--	--	--	--	--	--	--	--
	9/15/05	1,122.29	30.80	34.02	3.22	1,090.85	--	--	--	--	--	--	--	--	--	--
	1/18/06	1,122.29	24.96	26.23	1.27	1,097.08	--	--	--	--	--	--	--	--	--	--
	2/27/06	1,122.29	27.96	29.70	1.74	1,093.98	--	--	--	--	--	--	--	--	--	--
	3/13/06	1,122.29	28.48	29.56	1.08	1,093.59	--	--	--	--	--	--	--	--	--	--
	4/19/06	1,122.29	27.94	29.73	1.79	1,093.99	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,122.29	27.72	29.46	1.74	1,094.22	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,122.29	27.18	29.19	2.01	1,094.71	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,122.29	27.38	30.13	2.75	1,094.36	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,122.29	26.78	31.08	4.30	1,094.65	--	--	--	--	--	--	--	--	--	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-12 (cont.)																
	7/19/07	1,122.29	26.83	29.06	2.23	1,095.01	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,122.29	--	27.08	0.00	1,095.21	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,122.29	27.26	30.99	3.73	1,094.28	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,122.29	28.69	31.67	2.98	1,093.00	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,122.29	27.32	31.26	3.94	1,094.18	--	--	--	--	--	--	--	--	--	--
	2/4/09	1,122.29	28.98	32.10	3.12	1,092.69	--	--	--	--	--	--	--	--	--	--
	5/19/09	1,122.29	30.21	32.75	2.54	1,091.57	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,122.29	30.51	32.24	1.73	1,091.43	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,122.29	30.48	31.94	1.46	1,091.52	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,122.29	30.32	31.50	1.18	1,091.73	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,122.29	30.15	31.10	0.95	1,091.95	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,122.29	--	29.92	0.00	1,092.37	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,122.29	--	30.17	0.00	1,092.12	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,122.29	30.10	31.72	1.62	1,091.87	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,122.29	30.38	31.80	1.42	1,091.63	--	--	--	--	--	--	--	--	--	--
	4/12/10	1,122.29	30.29	31.61	1.32	1,091.74	--	--	--	--	--	--	--	--	--	--
	5/19/10	1,122.29	30.06	31.24	1.18	1,091.99	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,122.29	29.60	31.00	1.40	1,092.41	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,122.29	29.01	30.43	1.42	1,093.00	--	--	--	--	--	--	--	--	--	--
	10/13/10	1,122.29	27.94	29.66	1.42	1,093.77	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,122.29	28.24	32.23	3.99	1,093.25	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,122.29	28.71	31.70	2.99	1,092.98	--	--	--	--	--	--	--	--	--	--
	7/11/11	1,122.29	28.13	29.70	1.57	1,093.85	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,122.29	28.35	30.85	2.50	1,093.44	--	--	--	--	--	--	--	--	--	--
	9/9/11	1,122.29	28.15	30.20	2.05	1,093.73	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,122.29	27.95	30.00	2.05	1,093.93	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,122.29	28.00	36.90	8.90	1,092.51	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,122.29	28.95	31.80	2.85	1,092.77	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,122.29	28.82	31.40	2.58	1,092.95	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,122.29	29.75	32.50	2.75	1,091.99	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,122.29	30.05	36.60	6.55	1,090.93	--	--	--	--	--	--	--	--	--	--
	4/21/12	1,122.29	28.12	30.97	2.85	1,093.60	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,122.29	30.20	33.00	2.80	1,091.53	--	--	--	--	--	--	--	--	--	--
	6/25/12	1,122.29	29.87	31.59	1.72	1,092.08	--	--	--	--	--	--	--	--	--	--
	7/20/12	1,122.29	30.36	32.40	2.04	1,091.52	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,122.29	30.43	31.92	1.49	1,091.56	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,122.29	29.37	30.15	0.78	1,092.76	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,122.29	29.27	30.11	0.84	1,092.85	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,122.29	29.37	29.98	0.61	1,092.80	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,122.29	29.38	29.92	0.54	1,092.80	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,122.29	29.50	30.02	0.52	1,092.69	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,122.29	29.53	29.92	0.39	1,092.68	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-12 (cont.)																	
	6/29/13	1,122.29	30.56	30.98	0.42	1,091.65	--	--	--	--	--	--	--	--	--	--	
	7/30/13	1,122.29	30.68	31.03	0.35	1,091.54	--	--	--	--	--	--	--	--	--	--	
	8/12/13	1,122.29	29.14	29.60	0.46	1,093.06	--	--	--	--	--	--	--	--	--	--	
	10/29/13	1,122.29	30.59	31.09	0.50	1,091.60	--	--	--	--	--	--	--	--	--	--	
	11/26/13	1,122.29	29.96	30.88	0.92	1,092.15	--	--	--	--	--	--	--	--	--	--	
	12/29/13	1,122.29	INACCESSIBLE - FROZEN SHUT				--	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,122.29	29.77	30.52	0.75	1,092.37	--	--	--	--	--	--	--	--	--	--	
	2/20/14	1,122.29	30.44	31.02	0.58	1,091.73	--	--	--	--	--	--	--	--	--	--	
	3/18/14	1,122.29	30.46	31.38	0.92	1,091.65	--	--	--	--	--	--	--	--	--	--	
	4/15/14	1,122.29	28.39	30.83	2.44	1,093.41	--	--	--	--	--	--	--	--	--	--	
	5/5/14	1,122.29	30.31	33.11	2.80	1,091.42	--	--	--	--	--	--	--	--	--	--	
	6/18/14	1,122.29	30.49	31.02	0.53	1,091.69	--	--	--	--	--	--	--	--	--	--	
	7/15/14	1,122.29	31.23	32.01	0.78	1,090.90	--	--	--	--	--	--	--	--	--	--	
	8/5/14	1,122.29	30.00	30.28	0.28	1,092.23	--	--	--	--	--	--	--	--	--	--	
	9/22/14	1,122.29	30.53	30.97	0.44	1,091.67	--	--	--	--	--	--	--	--	--	--	
	10/13/14	1,122.29	30.63	31.01	0.38	1,091.58	--	--	--	--	--	--	--	--	--	--	
	11/13/14	1,122.29	30.79	31.06	0.27	1,091.45	--	--	--	--	--	--	--	--	--	--	
	12/22/14	1,122.29	28.91	31.73	2.82	1,092.82	--	--	--	--	--	--	--	--	--	--	
	1/18-19/15	1,122.29	30.36	32.08	1.72	1,091.59	--	--	--	--	--	--	--	--	--	--	
	2/9/15	1,122.29	28.89	31.33	2.44	1,092.91	--	--	--	--	--	--	--	--	--	--	
	6/19/15	1,122.29	29.83	31.11	1.28	1,092.20	--	--	--	--	--	--	--	--	--	--	
	9/21/15	1,122.29	25.99	27.66	1.67	1,095.97	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--		
MW-13																	
	9/21/01	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/4/01	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/9/01	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1/24/02	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/5/02	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/19/02	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/16/02	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/11/02	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/24/03	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	4/1-4/03	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/23/03	1,122.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
ABANDONED																	
MW-14																	
	9/21/01	1,121.89	--	36.15	0.00	1,085.74	--	--	--	--	--	--	--	--	--	--	
	10/4/01	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/9/01	1,121.89	--	36.25	0.00	1,085.64	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--	--		
	1/24/02	1,121.89	--	36.31	0.00	1,085.58	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--	--	--		
	3/5/02	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/19/02	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-14 (cont.)																
	7/16/02	1,121.89	--	36.40	0.00	1,085.49	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	11/11/02	1,121.89	--	36.49	0.00	1,085.40	NOT SAMPLED DUE TO INSUFFICIENT WATER									
	2/24/03	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/03	1,121.89	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-15																
	11/15/01	1,122.33	--	32.51	0.00	1,089.82	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,122.33	30.65	31.19	0.54	1,091.57	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	3/6/02	1,122.33	21.82	22.68	0.86	1,100.34	--	--	--	--	--	--	--	--	--	--
	4/26/02	1,122.33	33.07	33.65	0.58	1,089.14	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,122.33	31.80	32.65	0.85	1,090.36	--	--	--	--	--	--	--	--	--	--
	6/14/02	1,122.33	33.20	34.06	0.86	1,088.96	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,122.33	32.76	33.49	0.73	1,089.42	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	8/21/02	1,122.33	32.65	33.29	0.64	1,089.55	--	--	--	--	--	--	--	--	--	--
	9/20/02	1,122.33	32.48	33.17	0.69	1,089.71	--	--	--	--	--	--	--	--	--	--
	10/23/02	1,122.33	32.30	33.10	0.80	1,089.87	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,122.33	32.34	33.20	0.86	1,089.82	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	1/4/03	1,122.33	32.36	33.10	0.74	1,089.82	--	--	--	--	--	--	--	--	--	--
	2/3/03	1,122.33	31.96	32.79	0.83	1,090.20	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,122.33	32.56	33.41	0.85	1,089.60	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	4/1-4/03	1,122.33	31.43	32.22	0.79	1,090.74	--	--	--	--	--	--	--	--	--	--
	5/14/03	1,122.33	31.24	32.06	0.82	1,090.93	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,122.33	31.22	32.03	0.81	1,090.95	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,122.33	33.98	35.18	1.20	1,088.11	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,122.33	34.20	35.40	1.20	1,087.89	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	8/8/03	1,122.33	31.63	32.47	0.84	1,090.53	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,122.33	33.41	34.20	0.79	1,088.76	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,122.33	34.76	35.89	1.13	1,087.34	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,122.33	35.63	36.81	1.18	1,086.46	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,122.33	33.76	34.37	0.61	1,088.45	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	11/6/03	1,122.33	33.96	34.40	0.44	1,088.28	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,122.33	33.90	34.15	0.25	1,088.38	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,122.33	33.70	34.00	0.30	1,088.57	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	2/18/04	1,122.33	33.98	34.36	0.38	1,088.27	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,122.33	33.83	34.14	0.31	1,088.44	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,122.33	33.68	33.95	0.27	1,088.60	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	5/11/04	1,122.33	33.91	34.11	0.20	1,088.38	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,122.33	34.24	34.65	0.41	1,088.01	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,122.33	30.19	33.50	3.31	1,091.48	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,122.33	33.72	33.77	0.05	1,088.60	--	--	--	--	--	--	--	--	--	--
	9/15/04 ⁰	1,122.33	--	33.31	0.00	1,089.02	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-15 (cont.)																
	10/13/04 ⁶	1,122.33	--	33.16	0.00	1,089.17	--	--	--	--	--	--	--	--	--	--
	11/17/04 ⁶	1,122.33	--	32.93	0.00	1,089.40	--	--	--	--	--	--	--	--	--	--
	1/13/05 ⁶	1,122.33	33.89	33.92	0.03	1,088.43	--	--	--	--	--	--	--	--	--	--
	2/18/05 ⁶	1,122.33	--	23.96	0.00	1,098.37	--	--	--	--	--	--	--	--	--	--
	3/29/05 ⁶	1,122.33	34.62	34.74	0.12	1,087.69	--	--	--	--	--	--	--	--	--	--
	5/2-5/05 ⁶	1,122.33	34.82	35.09	0.27	1,087.46	--	--	--	--	--	--	--	--	--	--
	6/2/05 ⁶	1,122.33	--	34.77	0.00	1,087.56	--	--	--	--	--	--	--	--	--	--
	7/13/05 ⁶	1,122.33	--	34.61	0.00	1,087.72	--	--	--	--	--	--	--	--	--	--
	9/15/05 ⁶	1,122.33	--	33.73	0.00	1,088.60	--	--	--	--	--	--	--	--	--	--
	10/26/05 ⁶	1,122.33	--	33.32	0.00	1,089.01	--	--	--	--	--	--	--	--	--	--
	1/18/06 ⁶	1,122.33	33.00	33.02	0.02	1,089.33	--	--	--	--	--	--	--	--	--	--
	2/27/06 ⁶	1,122.33	--	35.50	0.00	1,086.83	--	--	--	--	--	--	--	--	--	--
	3/13/06 ⁶	1,122.33	31.51	31.51	0.00	1,090.82	--	--	--	--	--	--	--	--	--	--
	4/19/06 ⁶	1,122.33	31.91	31.91	0.00	1,090.42	--	--	--	--	--	--	--	--	--	--
	5/22/06 ⁶	1,122.33	--	31.51	0.00	1,090.82	--	--	--	--	--	--	--	--	--	--
	10/2/06 ⁶	1,122.33	--	31.20	0.00	1,091.13	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,122.33	FILLED WITH ICE			--	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,122.33	--	30.73	0.00	1,091.60	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,122.33	--	38.39	0.00	1,083.94	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,122.33	30.19	30.21	0.27	1,092.34	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,122.33	31.49	31.50	0.01	1,090.84	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,122.33	--	32.20	0.00	1,090.13	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,122.33	--	30.24	--	1,092.09	--	--	--	--	--	--	--	--	--	--
	2/3-4/09	1,122.33	32.17	32.20	0.03	1,090.15	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,122.33	33.32	33.39	0.07	1,089.00	--	--	--	--	--	--	--	--	--	--
	6/29/09 ⁶	1,122.33	33.34	33.37	0.03	1,088.98	--	--	--	--	--	--	--	--	--	--
	7/30/09 ⁶	1,122.33	--	33.41	0.00	1,088.92	--	--	--	--	--	--	--	--	--	--
	8/28/09 ⁶	1,122.33	--	33.15	0.00	1,089.18	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,122.33	--	32.70	0.00	1,089.63	--	--	--	--	--	--	--	--	--	--
	11/10/09 ⁶	1,122.33	--	32.51	0.00	1,089.82	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,122.33	--	32.72	0.00	1,089.61	--	--	--	--	--	--	--	--	--	--
	1/22/10 ⁶	1,122.33	--	32.96	0.00	1,089.37	--	--	--	--	--	--	--	--	--	--
	3/5/10 ⁶	1,122.33	33.15	33.17	0.02	1,089.18	--	--	--	--	--	--	--	--	--	--
	4/12/10 ⁶	1,122.33	33.19	33.22	0.03	1,089.13	--	--	--	--	--	--	--	--	--	--
	5/18-20/10 ⁶	1,122.33	32.96	32.97	0.01	1,089.37	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,122.33	--	32.45	0.00	1,089.88	--	--	--	--	--	--	--	--	--	--
	8/23/10 ⁶	1,122.33	--	31.05	0.00	1,091.28	--	--	--	--	--	--	--	--	--	--
	10/13/10 ⁶	1,122.33	--	29.68	0.00	1,092.65	--	--	--	--	--	--	--	--	--	--
	11/16/10 ⁶	1,122.33	--	30.08	0.00	1,092.25	--	--	--	--	--	--	--	--	--	--
	1/11/11 ⁶	1,122.33	--	30.71	0.00	1,091.62	--	--	--	--	--	--	--	--	--	--
	2/11/11 ⁶	1,122.33	--	31.16	0.00	1,091.17	--	--	--	--	--	--	--	--	--	--
	5/5/11 ⁶	1,122.33	30.31	30.33	0.02	1,092.02	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-15 (cont.)																
	6/8/11 ⁶	1,122.33	30.62	30.70	0.08	1,091.69	--	--	--	--	--	--	--	--	--	--
	7/11/11 ⁶	1,122.33	31.26	31.28	0.02	1,091.07	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,122.33	--	30.92	0.00	1,091.41	--	--	--	--	--	--	--	--	--	--
	9/9/11 ⁶	1,122.33	29.90	30.00	0.10	1,092.41	--	--	--	--	--	--	--	--	--	--
	10/12/11 ⁶	1,122.33	--	29.35	0.00	1,092.98	--	--	--	--	--	--	--	--	--	--
	11/29/11 ⁶	1,122.33	--	29.55	0.00	1,092.78	--	--	--	--	--	--	--	--	--	--
	12/21/11 ⁶	1,122.33	--	29.80	0.00	1,092.53	--	--	--	--	--	--	--	--	--	--
	1/28/12 ⁶	1,122.33	--	29.77	0.00	1,092.56	--	--	--	--	--	--	--	--	--	--
	2/24/12 ⁶	1,122.33	--	31.70	0.00	1,090.63	--	--	--	--	--	--	--	--	--	--
	3/20/12 ⁶	1,122.33	33.40	33.50	0.10	1,088.91	--	--	--	--	--	--	--	--	--	--
	4/21/12 ⁶	1,122.33	--	28.95	0.00	1,093.38	--	--	--	--	--	--	--	--	--	--
	5/21/12 ⁶	1,122.33	--	33.35	0.00	1,088.98	--	--	--	--	--	--	--	--	--	--
	6/25/12 ⁶	1,122.33	--	32.11	0.00	1,090.22	--	--	--	--	--	--	--	--	--	--
	7/20/12 ⁶	1,122.33	33.21	33.25	0.04	1,089.11	--	--	--	--	--	--	--	--	--	--
	8/24/12 ⁶	1,122.33	29.87	31.59	1.72	1,092.12	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,122.33	--	31.82	0.00	1,090.51	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,122.33	--	31.77	0.00	1,090.56	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,122.33	--	31.54	0.00	1,090.79	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,122.33	--	31.77	0.00	1,090.56	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,122.33	--	31.63	0.00	1,090.70	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,122.33	--	31.71	0.00	1,090.62	--	--	--	--	--	--	--	--	--	--
	6/29/13	1,122.33	--	33.31	0.00	1,089.02	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,122.33	--	33.68	0.00	1,088.65	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,122.33	--	30.92	0.00	1,091.41	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,122.33	--	33.72	0.00	1,088.61	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,122.33	--	31.36	0.00	1,090.97	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,122.33	--	32.03	0.00	1,090.30	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,122.33	--	31.12	0.00	1,091.21	--	--	--	--	--	--	--	--	--	--
	3/18/14	1,122.33	33.01	33.04	0.03	1,089.31	--	--	--	--	--	--	--	--	--	--
	4/14/14	1,122.33	--	28.81	0.00	1,093.52	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,122.33	--	33.41	0.00	1,088.92	--	--	--	--	--	--	--	--	--	--
	6/18/14	1,122.33	33.15	33.21	0.06	1,089.17	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,122.33	--	31.79	0.00	1,090.54	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,122.33	32.30	32.33	0.03	1,090.02	--	--	--	--	--	--	--	--	--	--
	9/23/14	1,122.33	--	33.77	0.00	1,088.56	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,122.33	--	33.77	0.00	1,088.56	--	--	--	--	--	--	--	--	--	--
	11/13/14	1,122.33	--	33.83	0.00	1,088.50	--	--	--	--	--	--	--	--	--	--
	12/23/14	1,122.33	29.72	29.83	0.11	1,092.59	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,122.33	INACCESSIBLE- FROZEN SHUT				--	--	--	--	--	--	--	--	--	--
	2/10/15	1,122.33	--	29.83	0.00	1,092.50	--	--	--	--	--	--	--	--	--	--
	6/18/15	1,122.33	--	29.26	0.00	1,093.07	--	14,000/15,000	<340/<340	1,600	9.0	<2.0	0.7	19	--	--
	9/21/15	1,122.33	--	27.91	0.00	1,094.42	--	1,400/2,600	93/560	4,800	5.5	7.6	11	19	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPL ² (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-16	11/15/01	1,121.72	--	44.10	0.00	1,077.62	--	--	--	--	--	--	--	--	--	--
	1/24/02	1,121.72	42.35	49.24	6.89	1,077.99	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	3/6/02	1,121.72	40.60	50.10	9.50	1,079.22	--	--	--	--	--	--	--	--	--	--
	4/26/02	1,121.72	40.11	48.45	8.34	1,079.94	--	--	--	--	--	--	--	--	--	--
	5/19/02	1,121.72	44.20	47.19	2.99	1,076.92	--	--	--	--	--	--	--	--	--	--
	6/13/02	1,121.72	45.58	48.02	2.44	1,075.65	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,121.72	44.40	45.48	1.08	1,077.10	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	8/21/02	1,121.72	44.14	45.14	1.00	1,077.38	--	--	--	--	--	--	--	--	--	--
	9/20/02	1,121.72	43.98	44.95	0.97	1,077.55	--	--	--	--	--	--	--	--	--	--
	10/23/02	1,121.72	44.08	45.21	1.13	1,077.41	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,121.72	43.35	45.52	2.17	1,077.94	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	1/4/03	1,121.72	44.19	45.31	1.12	1,077.31	--	--	--	--	--	--	--	--	--	--
	2/3/03	1,121.72	43.07	45.16	2.09	1,078.23	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,121.72	45.25	46.85	1.60	1,076.15	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	4/4/03	1,121.72	42.97	44.03	1.06	1,078.54	--	--	--	--	--	--	--	--	--	--
	5/14/03	1,121.72	45.20	46.90	1.70	1,076.18	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,121.72	45.18	46.85	1.67	1,076.21	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,121.72	44.80	46.44	1.64	1,076.59	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,121.72	44.90	46.58	1.68	1,076.48	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	8/8/03	1,121.72	44.80	45.95	1.15	1,076.69	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,121.72	46.22	47.86	1.64	1,075.17	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,121.72	44.72	45.40	0.68	1,076.86	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,121.72	44.74	45.40	0.66	1,076.85	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,121.72	44.51	45.20	0.69	1,077.07	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,121.72	44.72	45.38	0.66	1,076.87	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	11/6/03	1,121.72	44.77	45.25	0.48	1,076.85	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,121.72	42.12	42.49	0.37	1,079.53	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,121.72	44.96	45.50	0.54	1,076.65	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	2/18/04	1,121.72	44.78	45.21	0.43	1,076.85	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,121.72	45.08	45.54	0.46	1,076.55	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,121.72	44.97	45.23	0.26	1,076.70	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	5/11/04	1,121.72	45.11	45.39	0.28	1,076.55	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,121.72	45.55	45.64	0.09	1,076.15	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,121.72	44.98	45.18	0.20	1,076.70	--	--	--	--	--	--	--	--	--	--
	9/15/2004 ^o	1,121.72	44.81	44.82	0.01	1,076.91	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,121.72	--	44.82	>0.0	1,076.90	--	--	--	--	--	--	--	--	--	--
	11/17/04	1,121.72	--	44.73	>0.0	1,076.99	--	--	--	--	--	--	--	--	--	--
	1/13/05	1,121.72	45.32	45.66	0.34	1,076.33	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	2/18/05	1,121.72	44.94	45.05	0.10	1,076.75	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,121.72	45.28	45.48	0.20	1,076.40	--	--	--	--	--	--	--	--	--	--
	5/5/05	1,121.72	45.54	45.91	0.37	1,076.11	--	--	--	--	--	--	--	--	--	--
	6/2/05	1,121.72	45.31	45.50	0.19	1,076.37	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-16 (cont.)																
	7/13/05	1,121.72	45.23	45.26	0.03	1,076.48	--	--	--	--	--	--	--	--	--	--
	9/15/05	1,121.72	44.50	45.51	0.01	1,076.22	--	--	--	--	--	--	--	--	--	--
	10/26/2005 ⁶	1,121.72	--	44.26	0.00	1,077.46	--	--	--	--	--	--	--	--	--	--
	4/19/06	1,121.72	43.62	47.68	4.06	1,077.29	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,121.72	44.15	45.33	1.18	1,077.33	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,121.72	42.33	46.69	4.36	1,078.52	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,121.72	42.22	48.15	5.93	1,078.31	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,121.72	29.65	50.00	20.35	1,088.00	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,121.72	40.29	49.99	9.70	1,079.49	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,121.72	39.27	49.99	10.72	1,080.31	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,121.72	40.75	49.93	9.18	1,079.13	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,121.72	42.91	50.05	7.14	1,077.38	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,121.72	43.09	45.36	2.27	1,078.18	--	--	--	--	--	--	--	--	--	--
	2/4/09	1,121.72	44.31	45.94	1.63	1,077.08	--	--	--	--	--	--	--	--	--	--
	5/19/09	1,121.72	45.34	46.95	1.61	1,076.06	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,121.72	45.23	46.19	0.96	1,076.30	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,121.72	45.09	45.75	0.66	1,076.50	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,121.72	44.88	45.23	0.35	1,076.77	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,121.72	44.28	44.58	0.30	1,077.38	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,121.72	44.13	44.38	0.25	1,077.54	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,121.72	44.29	44.64	0.35	1,077.36	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,121.72	44.52	44.62	0.10	1,077.18	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,121.72	44.62	44.91	0.29	1,077.04	--	--	--	--	--	--	--	--	--	--
	4/12/10	1,121.72	44.85	45.17	0.32	1,076.81	--	--	--	--	--	--	--	--	--	--
	5/20/10	1,121.72	44.85	45.13	0.28	1,076.81	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,121.72	43.97	44.03	0.06	1,077.74	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,121.72	42.85	42.99	0.14	1,078.84	--	--	--	--	--	--	--	--	--	--
	10/13/10	1,121.72	41.73	41.87	0.14	1,079.96	--	--	--	--	--	--	--	--	--	--
	11/16/10	1,121.72	41.22	42.35	1.13	1,080.27	--	--	--	--	--	--	--	--	--	--
	1/11/11	1,121.72	42.06	45.13	3.07	1,079.05	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,121.72	42.22	44.12	1.90	1,079.12	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,121.72	42.98	46.60	3.62	1,078.02	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,121.72	43.52	45.28	1.76	1,077.85	--	--	--	--	--	--	--	--	--	--
	7/11/11	1,121.72	42.78	43.85	1.07	1,078.73	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,121.72	42.70	44.12	1.42	1,078.74	--	--	--	--	--	--	--	--	--	--
	9/9/11	1,121.72	42.20	44.15	1.95	1,079.13	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,121.72	41.55	49.10	7.55	1,078.66	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,121.72	41.30	49.15	7.85	1,078.85	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,121.72	41.30	47.30	6.00	1,079.22	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,121.72	41.38	47.42	6.04	1,079.13	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,121.72	43.50	48.45	4.95	1,077.23	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,121.72	43.80	49.50	5.70	1,076.78	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPL ² (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-16 (cont.)																
	4/21/12	1,121.72	40.48	47.50	7.02	1,079.84	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,121.72	43.10	48.20	5.10	1,077.60	--	--	--	--	--	--	--	--	--	--
	6/25/12	1,121.72	44.36	46.31	1.95	1,076.97	--	--	--	--	--	--	--	--	--	--
	7/20/12	1,121.72	43.21	46.80	3.59	1,077.79	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,121.72	42.78	45.80	3.02	1,078.34	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,121.72	42.24	43.30	1.06	1,079.27	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,121.72	41.81	43.13	1.32	1,079.65	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,121.72	43.14	44.37	1.23	1,078.33	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,121.72	43.36	44.51	1.15	1,078.13	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,121.72	43.80	44.83	1.03	1,077.71	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,121.72	43.88	44.79	0.91	1,077.66	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	6/29/13	1,121.72	45.03	45.83	0.80	1,076.53	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,121.72	45.22	45.97	0.75	1,076.35	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,121.72	43.07	43.86	0.79	1,078.49	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,121.72	45.58	45.99	0.41	1,076.06	--	--	--	--	--	--	--	--	--	--
	11/26/13	1,121.72	41.36	42.41	1.05	1,080.15	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,121.72	42.72	43.53	0.81	1,078.84	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,121.72	43.70	44.23	0.53	1,077.91	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,121.72	42.08	43.01	0.93	1,079.45	--	--	--	--	--	--	--	--	--	--
	3/18/14	1,121.72	44.48	45.31	0.83	1,077.07	--	--	--	--	--	--	--	--	--	--
	4/15/14	1,121.72	40.93	47.13	6.20	1,079.55	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,121.72	43.53	48.31	4.78	1,077.23	--	--	--	--	--	--	--	--	--	--
	6/18/14	1,121.72	44.39	45.33	0.94	1,077.14	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,121.72	44.40	46.13	1.73	1,076.97	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,121.72	43.88	44.37	0.49	1,077.74	--	--	--	--	--	--	--	--	--	--
	9/23/14	1,121.72	43.89	45.96	2.07	1,077.42	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,121.72	45.61	45.93	0.32	1,076.05	--	--	--	--	--	--	--	--	--	--
	11/13/14	1,121.72	45.77	46.01	0.24	1,075.90	--	--	--	--	--	--	--	--	--	--
	12/23/14	1,121.72	41.22	46.83	5.61	1,079.38	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,121.72	44.93	45.10	0.17	1,076.76	--	--	--	--	--	--	--	--	--	--
	2/10/15	1,121.72	41.43	46.13	4.70	1,079.35	--	--	--	--	--	--	--	--	--	--
	6/19/15	1,121.72	44.39	45.11	0.72	1,077.19	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,121.72	41.93	42.16	0.23	1,079.74	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
MW-17																
	6/12/02	1,123.36	--	28.65	0.00	1,094.71	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,123.36	--	29.26	0.00	1,094.10	--	500	<750	3,400	32	14	8.1	130	<5.0	29.6⁸
	11/11/02	1,123.36	--	29.04	0.00	1,094.32	--	600	<250	2,100	48	7.7	43	99	<20	<1.2 ⁸
	2/24/03	1,123.36	--	29.18	0.00	1,094.18	--	380	<250	2,100	58	7.1	64	110	<10	<1.1 ⁸
	4/1-4/03	1,123.36	--	29.33	0.00	1,094.03	--	580	260	3,300	39	8.5	45	93	<50/<2 ¹²	--
	7/1/03	1,123.36	--	29.98	0.00	1,093.38	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,123.36	--	29.86	0.00	1,093.50	--	280	<250	1,300	30	2.6	11	27	<20	13.9/<1.2 ⁸
	10/23/03 (D)	1,123.36	--	30.08	0.00	1,093.28	--	480	<94	4,600	13	5.3	1.6	66	--	<1.2 ⁸

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-17 (cont.)																	
	10/23/03	1,123.36	--	30.08	0.00	1,093.28	--	470	100	4,800	12	5.3	1.5	69	--	<1.2 ⁸	
	1/13/04	1,123.36	--	30.45	0.00	1,092.91	--	390	<95	2,200	15	5.3	1.9	27	<10	<1.2 ⁸	
	4/14/04	1,123.36	--	30.15	0.00	1,093.21	--	540	<100	2,800	13	5.4	2.5	39	<100	<1.2 ⁸	
	7/13/04	1,123.36	--	30.66	0.00	1,092.70	--	410	<96	2,900	16	5.8	2.6	35	<100	1.0 ⁸	
	10/13/04	1,123.36	--	29.12	0.00	1,094.24	--	<77	<97	130	16	2.8	3.0	6	<20	<0.99 ⁸	
	1/12/05	1,123.36	--	29.55	0.00	1,093.81	--	190	<100	1,400	11	5.1	2.1	14	--	<0.99 ⁸	
	5/4/05	1,123.36	--	33.05	0.00	1,090.31	--	300	180	620	7.0	2.7	<0.5	6	<10	<0.87 ⁸	
	7/13/05	1,123.36	--	30.87	0.00	1,092.49	--	340	<100	470	3.8	0.8	<0.5	5.6	16	<0.87 ⁸	
	10/27/05	1,123.36	--	30.15	0.00	1,093.21	--	180	120	710	20.0	6.3	2.1	14	--	<0.87 ⁸	
	3/14/06	1,123.36	--	27.15	0.00	1,096.21	--	330	110	2,900	41.0	47.0	110	330	--	--	
	5/22/06	1,123.36	--	27.07	0.00	1,096.29	--	210	<96	2,200	<20	12.0	54	170	--	--	
	10/3/06	1,123.36	--	26.52	0.00	1,096.84	--	440	<100	6,600	34.0	37.0	310	660	--	--	
	5/23/07	1,123.36	--	26.46	0.00	1,096.90	--	620	340	8,200	56.0	74.0	410	900	--	--	
	11/6/07	1,123.36	--	24.97	0.00	1,098.39	--	990	<110	18,000	110.0	73.0	560	1,100	--	--	
	5/14/08	1,123.36	--	27.21	0.00	1,096.15	--	<77	<97	290	6.5	1.8	5.4	4	--	--	
	5/18-19/09	1,123.36	--	29.07	0.00	1,094.29	--	63	<74	140	3.3	0.8	<0.5	<1.5	--	--	
	5/18-20/10	1,123.36	--	29.67	0.00	1,093.69	--	810	990	410	6.1	6.0	1	14	--	--	
	5/5/11	1,123.36	--	27.48	0.00	1,095.88	--	220	250	470	4.3	3.6	12	8.9	--	--	
	5/22/12	1,123.36	--	30.10	0.00	1,093.26	--	<31	<72	98	2.7	0.8	0.6	<1.5	--	--	
	5/14/13	1,123.36	--	28.82	0.00	1,094.54	--	<29	<67	120	4.2	3.0	<0.5	7.4	--	--	
	5/5/14	1,123.36	INACCESSIBLE - DUE TO CONSTRUCTION ACTIVITIES						--	--	--	--	--	--	--	--	--
	6/18/15	1,123.36	--	25.98	0.00	1097.38	--	83/590	<68/250	7,200	23	73	660	890	--	--	
	9/21/15	1,123.36	--	25.25	0.00	1098.11	--	130/760	<66/<66	5,800	16	60	370	700	--	--	
MW-18																	
	6/12/02	1,122.31	--	35.06	--	1,087.25	--	--	--	--	--	--	--	--	--	--	
	7/16/02	1,122.31	--	29.75	0.00	1,092.56	--	600	<750	20,000	<20	29	5.1	3,300	<10	1.8 ⁸	
	11/11/02	1,122.31	--	29.61	0.00	1,092.70	--	510	<250	17,000	24	22	7.5	2,700	<50	<1.2 ⁸	
	2/24/03	1,122.31	--	29.78	0.00	1,092.53	--	15,000	330	25,000	36	25	11	2,800	<20	5.9 ⁸	
	4/1-4/03	1,122.31	29.81	30.20	0.39	1,092.42	--	--	--	--	--	--	--	--	--	--	
	5/14/03	1,122.31	30.85	31.41	0.56	1,091.35	--	--	--	--	--	--	--	--	--	--	
	6/14/03	1,122.31	30.80	31.35	0.55	1,091.40	--	--	--	--	--	--	--	--	--	--	
	6/30/03	1,122.31	31.36	31.95	0.59	1,090.83	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,122.31	31.38	32.00	0.62	1,090.81	--	--	--	--	--	--	--	--	--	--	
	8/8/03	1,122.31	30.71	31.25	0.54	1,091.49	--	--	--	--	--	--	--	--	--	--	
	8/17/03	1,122.31	31.28	31.80	0.52	1,090.93	--	--	--	--	--	--	--	--	--	--	
	9/5/03	1,122.31	31.76	32.37	0.61	1,090.43	--	--	--	--	--	--	--	--	--	--	
	9/17/03	1,122.31	31.18	31.95	0.77	1,090.98	--	--	--	--	--	--	--	--	--	--	
	10/4/03	1,122.31	30.82	31.36	0.54	1,091.38	--	--	--	--	--	--	--	--	--	--	
	10/23/03	1,122.31	31.06	31.29	0.23	1,091.20	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--	
	11/6/03	1,122.31	31.11	31.27	0.16	1,091.17	--	--	--	--	--	--	--	--	--	--	
	1/13/04	1,122.31	30.82	31.17	0.35	1,091.42	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--	
	2/18/04	1,122.31	30.25	30.76	0.51	1,091.96	--	--	--	--	--	--	--	--	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-18 (cont.)																
	3/16/04	1,122.31	30.25	30.56	0.31	1,092.00	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,122.31	30.22	30.36	0.14	1,092.06	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	5/10/04	1,122.31	30.43	30.45	0.02	1,091.88	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,122.31	30.45	30.70	0.25	1,091.81	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,122.31	30.09	30.33	0.24	1,092.17	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,122.31	29.38	29.51	0.13	1,092.90	--	--	--	--	--	--	--	--	--	--
	9/15/04 ⁶	1,122.31	--	29.20	0.00	1,093.11	--	--	--	--	--	--	--	--	--	--
	10/13/04 ⁶	1,122.31	--	29.20	0.00	1,093.11	--	--	--	--	--	--	--	--	--	--
	11/17/04 ⁶	1,122.31	--	28.75	0.00	1,093.56	--	--	--	--	--	--	--	--	--	--
	1/13/05 ⁶	1,122.31	--	29.55	0.00	1,092.76	--	--	--	--	--	--	--	--	--	--
	2/18/05 ⁶	1,122.31	--	29.21	0.00	1,093.10	--	--	--	--	--	--	--	--	--	--
	3/29/05 ⁶	1,122.31	--	29.69	0.00	1,092.62	--	--	--	--	--	--	--	--	--	--
	5/2-5/05 ⁶	1,122.31	--	30.10	0.00	1,092.21	--	--	--	--	--	--	--	--	--	--
	6/2/05 ⁶	1,122.31	--	30.98	0.00	1,091.33	--	--	--	--	--	--	--	--	--	--
	7/13/05 ⁶	1,122.31	--	30.21	0.00	1,092.10	--	--	--	--	--	--	--	--	--	--
	9/15/05 ⁶	1,122.31	--	28.76	0.00	1,093.55	--	--	--	--	--	--	--	--	--	--
	10/26/05 ⁶	1,122.31	--	28.02	0.00	1,094.29	--	--	--	--	--	--	--	--	--	--
	10/26/05 ⁶	1,122.31	--	26.07	0.00	1,096.24	--	--	--	--	--	--	--	--	--	--
	3/14/06	1,122.31	--	26.07	0.00	1,096.24	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,122.31	--	26.36	0.00	1,095.95	--	--	--	--	--	--	--	--	--	--
	10/3/06	1,122.31	--	25.79	0.00	1,096.52	--	140	<100	110	3.7	<0.5	<0.5	<1.5	--	--
	5/22/07	1,122.31	--	25.48	0.00	1,096.83	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,122.31	--	25.43	0.00	1,096.88	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,122.31	--	24.92	0.00	1,097.39	--	<82	<100	160	3.4	<0.5	<2.0	<5.0	--	--
	2/12/08	1,122.31	--	26.09	0.00	1,096.22	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,122.31	--	26.69	0.00	1,095.62	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,122.31	--	28.41	0.00	1,093.90	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,122.31	--	28.64	0.00	1,093.67	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,122.31	--	28.60	0.00	1,093.71	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,122.31	--	28.32	0.00	1,093.99	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,122.31	--	27.89	0.00	1,094.42	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,122.31	--	27.63	0.00	1,094.68	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,122.31	--	27.80	0.00	1,094.51	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,122.31	--	28.26	0.00	1,094.05	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,122.31	--	28.56	0.00	1,093.75	--	--	--	--	--	--	--	--	--	--
	4/12/10	1,122.31	--	28.61	0.00	1,093.70	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,122.31	--	28.49	0.00	1,093.82	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,122.31	--	28.02	0.00	1,094.29	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,122.31	--	26.29	0.00	1,096.02	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,122.31	--	27.70	0.00	1,094.61	--	--	--	--	--	--	--	--	--	--
	5/14/13	1,122.31	--	27.36	0.00	1,094.95	--	<29	<67	65	0.8	<2.0	<2.0	<1.5	--	--
	5/5/14	1,122.31	--	28.53	0.00	1,093.78	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-18 (cont.)																
	6/18/15	1,122.31	--	31.30	0.00	1,091.01	--	<29/68	<67/<67	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,122.31	--	25.10	0.00	1,097.21	--	<28/66	<66/<66	140	0.5	<0.5	<0.5	<1.5	--	--
MW-19																
	6/13/02	1,120.44	--	37.51	--	1,082.93	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,120.44	--	33.69	0.00	1,086.75	--	960	<750	1,200	1,500	25	3.1	31	<5.0	1.7 ⁸
	11/11/02	1,120.44	--	32.71	0.00	1,087.73	--	910	<250	1,600	1,000	23	1.9	14	<20	<1.2 ⁸
	2/24/03	1,120.44	INACCESSIBLE - CAR PARKED OVER WELL													
	4/1-4/03	1,120.44	INACCESSIBLE - CAR PARKED OVER WELL													
	7/1/03	1,120.44	--	34.66	0.00	1,085.78	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,120.44	--	34.50	0.00	1,085.94	--	910	<250	990	1,600	28	3.2	8.9	<20	<1.2 ⁸
	10/24/03	1,120.44	--	33.73	0.00	1,086.71	--	100	130	1,500	1,100	17	1.0	6.3	<20	2.8 ⁸
	10/24/03 (D)	1,120.44	--	33.73	0.00	1,086.71	--	750	140	910	1,500	27	<2.5	9.7	<1 ⁷	<1.2 ⁸
	1/13/04	1,120.44	--	34.50	0.00	1,085.94	--	570	310	1,200	1,200	21	<2.0	8.4	<10	<1.2 ⁸
	1/13/04 (D)	1,120.44	--	34.50	0.00	1,085.94	--	650	280	1,200	1,200	22	<2.0	7.9	<10	<1.2 ⁸
	4/13/04	1,120.44	--	34.98	0.00	1,085.46	--	680	<94	870	1,700	25	<2.5	<7.5	<1 ⁷	<1.2 ⁸
	7/14/04	1,120.44	--	34.55	0.00	1,085.89	--	620	<95	900	1,500	23	1.5	5.5	<100	<0.99 ⁸
	10/13/04	1,120.44	--	33.05	0.00	1,087.39	--	96	<120	510	1,200	16	<2.5	<7.5	<50	<0.99 ⁸
	1/12/05	1,120.44	--	34.32	0.00	1,086.12	--	130	<96	760	910	16	<2.5	<15	--	<0.99 ⁸
	5/4/05	1,120.44	--	35.36	0.00	1,085.08	--	550	170	890	1,200	16	2.9	<7.5	<13	<0.87 ⁸
	7/13/05	1,120.44	--	34.29	0.00	1,086.15	--	610	<100	720	400	11	0.70	4.5	<10	<0.87 ⁸
	10/27/05	1,120.44	--	32.78	0.00	1,087.66	--	500	<100	1,100	1,300	20	<5.0	<15	<25	<0.87 ⁸
	3/14/06	1,120.44	--	32.47	0.00	1,087.97	--	210	<96	1,300	1,400	22	<5.0	<15	--	--
	5/22/06	1,120.44	--	32.85	0.00	1,087.59	--	510	<100	1,000	980	13	<2.5	<7.5	--	--
	10/3/06	1,120.44	--	30.12	0.00	1,090.32	--	2,000	<100	1,900	1,300	16	4.30	8.20	--	--
	5/23/07	1,120.44	--	28.48	0.00	1,091.96	--	44,000	<2,000	4,400	640	14	7.30	<25	--	--
	11/5/07	1,120.44	28.65	29.20	0.55	1,091.68	--	--	--	--	--	--	--	--	--	--
	5/15/08	1,120.44	--	32.98	0.00	1,087.46	--	150,000	<9,400	1,800	740	13	3.9	11	--	--
	5/18-19/09	1,120.44	34.47	34.84	0.37	1,085.90	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	7/30/09 ⁹	1,120.44	33.59	33.94	0.35	1,086.78	--	--	--	--	--	--	--	--	--	--
	8/28/08 ⁶	1,120.44	33.39	33.39	0.01	1,087.06	--	--	--	--	--	--	--	--	--	--
	10/02/09 ⁹	1,120.44	32.71	32.72	0.01	1,087.73	--	--	--	--	--	--	--	--	--	--
	11/10/09 ⁶	1,120.44	--	32.58	0.00	1,087.86	--	--	--	--	--	--	--	--	--	--
	12/15/09 ⁹	1,120.44	--	32.88	0.00	1,087.56	--	--	--	--	--	--	--	--	--	--
	1/22/10 ⁶	1,120.44	--	33.33	0.00	1,087.11	--	--	--	--	--	--	--	--	--	--
	3/5/10 ⁶	1,120.44	--	34.05	0.00	1,086.39	--	--	--	--	--	--	--	--	--	--
	4/12/10 ⁶	1,120.44	--	34.32	0.02	1,086.14	--	--	--	--	--	--	--	--	--	--
	5/18-20/10 ⁶	1,120.44	--	33.93	0.00	1,086.51	--	250,000	<14,000	17,000	170	18	35	93	--	--
	7/6/10 ⁶	1,120.44	--	31.86	0.00	1,088.58	--	--	--	--	--	--	--	--	--	--
	8/23/10 ⁶	1,120.44	--	30.15	0.00	1,090.29	--	--	--	--	--	--	--	--	--	--
	10/13/10 ⁶	1,120.44	29.20	29.30	0.10	1,091.22	--	--	--	--	--	--	--	--	--	--
	11/16/10 ⁶	1,120.44	29.77	29.78	0.01	1,090.67	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-19 (cont.)																	
	1/11/11 ⁶	1,120.44	WELL BOX FILLED WITH ICE, UNABLE TO MONITOR						--	--	--	--	--	--	--	--	--
	2/11/11 ⁶	1,120.44	WELL BOX FILLED WITH ICE, UNABLE TO MONITOR						--	--	--	--	--	--	--	--	--
	5/5/11 ⁶	1,120.44	32.31	32.35	0.04	1,088.12	--	--	--	--	--	--	--	--	--	--	
	6/8/11 ⁶	1,120.44	31.70	31.84	0.14	1,088.71	--	--	--	--	--	--	--	--	--	--	
	7/11/11	1,120.44	30.54	30.58	0.04	1,089.89	--	--	--	--	--	--	--	--	--	--	
	8/15/11	1,120.44	--	29.81	0.00	1,090.63	--	--	--	--	--	--	--	--	--	--	
	9/9/11 ⁶	1,120.44	29.50	29.55	0.05	1,090.93	--	--	--	--	--	--	--	--	--	--	
	10/12/11	1,120.44	--	29.50	0.00	1,090.94	--	--	--	--	--	--	--	--	--	--	
	11/29/11	1,120.44	33.20	33.50	0.30	1,087.18	--	--	--	--	--	--	--	--	--	--	
	12/21/11	1,120.44	30.00	30.20	0.20	1,090.40	--	--	--	--	--	--	--	--	--	--	
	1/28/12	1,120.44	29.93	30.11	0.18	1,090.47	--	--	--	--	--	--	--	--	--	--	
	2/24/12	1,120.44	32.10	32.42	0.32	1,088.28	--	--	--	--	--	--	--	--	--	--	
	3/20/12	1,120.44	32.55	32.70	0.15	1,087.86	--	--	--	--	--	--	--	--	--	--	
	4/21/12	1,120.44	29.65	29.90	0.25	1,090.74	--	--	--	--	--	--	--	--	--	--	
	5/21/12	1,120.44	33.05	33.35	0.30	1,087.33	--	--	--	--	--	--	--	--	--	--	
	6/25/12	1,120.44	33.64	33.69	0.05	1,086.79	--	--	--	--	--	--	--	--	--	--	
	7/20/12	1,120.44	31.94	32.07	0.13	1,088.47	--	--	--	--	--	--	--	--	--	--	
	8/24/12	1,120.44	--	30.82	0.00	1,089.62	--	--	--	--	--	--	--	--	--	--	
	11/30/12	1,120.44	--	30.10	0.00	1,090.34	--	--	--	--	--	--	--	--	--	--	
	1/18/13	1,120.44	--	29.96	0.00	1,090.48	--	--	--	--	--	--	--	--	--	--	
	2/19-20/13	1,120.44	31.39	31.48	0.09	1,089.03	--	--	--	--	--	--	--	--	--	--	
	3/31/13	1,120.44	31.42	31.51	0.09	1,089.00	--	--	--	--	--	--	--	--	--	--	
	4/28/13	1,120.44	32.05	32.26	0.21	1,088.35	--	--	--	--	--	--	--	--	--	--	
	5/13/13	1,120.44	31.97	32.22	0.25	1,088.42	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--		
	6/29/13	1,120.44	33.43	33.91	0.48	1,086.91	--	--	--	--	--	--	--	--	--	--	
	7/30/13	1,120.44	33.53	34.02	0.49	1,086.81	--	--	--	--	--	--	--	--	--	--	
	8/12/13	1,120.44	--	29.57	0.00	1,090.87	--	--	--	--	--	--	--	--	--	--	
	10/29/13	1,120.44	33.66	34.01	0.35	1,086.71	--	--	--	--	--	--	--	--	--	--	
	11/26/13	1,120.44	29.81	29.86	0.05	1,090.62	--	--	--	--	--	--	--	--	--	--	
	12/29/13	1,120.44	31.77	31.99	0.22	1,088.63	--	--	--	--	--	--	--	--	--	--	
	1/27/14	1,120.44	32.68	33.07	0.39	1,087.68	--	--	--	--	--	--	--	--	--	--	
	2/20/14	1,120.44	32.20	32.26	0.06	1,088.23	--	--	--	--	--	--	--	--	--	--	
	3/18/14	1,120.44	30.00	30.44	0.44	1,090.35	--	--	--	--	--	--	--	--	--	--	
	4/14/14	1,120.44	29.90	30.31	0.41	1,090.46	--	--	--	--	--	--	--	--	--	--	
	5/5/14	1,120.44	31.92	31.98	0.06	1,088.51	--	--	--	--	--	--	--	--	--	--	
	6/17/14	1,120.44	33.66	34.14	0.48	1,086.68	--	--	--	--	--	--	--	--	--	--	
	7/14/14	1,120.44	33.71	33.93	0.22	1,086.69	--	--	--	--	--	--	--	--	--	--	
	8/5/14	1,120.44	32.18	32.21	0.03	1,088.25	--	--	--	--	--	--	--	--	--	--	
	9/22/14	1,120.44	29.59	29.62	0.03	1,090.84	--	--	--	--	--	--	--	--	--	--	
	10/13/14	1,120.44	33.70	34.11	0.41	1,086.66	--	--	--	--	--	--	--	--	--	--	

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232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-19 (cont.)																
	11/13/14	1,120.44	33.79	34.03	0.24	1,086.60	--	--	--	--	--	--	--	--	--	--
	12/23/14	1,120.44	29.97	30.18	0.21	1,090.43	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,120.44	--	34.63	0.00	1,085.81	--	--	--	--	--	--	--	--	--	--
	2/10/15	1,120.44	29.89	29.96	0.07	1,090.54	--	--	--	--	--	--	--	--	--	--
	6/19/15	1,120.44	31.73	31.77	0.04	1,088.70	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,120.44	--	30.17	--	1,090.27	--	--	--	--	--	--	--	--	--	--
MW-20																
	6/14/02	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/16/02	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/02	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/24/03	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/03	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,116.43	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/04	1,117.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,117.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,117.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,116.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,116.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,116.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,116.49	--	44.61	0.00	1,071.88	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,116.49	--	44.70	0.00	1,071.79	--	--	--	--	--	--	--	--	--	--
	5/23/07	1,116.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,116.49	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,116.49	--	44.56	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-21																
	3/6/03	1,121.13	--	31.67	0.00	1,089.46	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,121.13	--	32.03	0.00	1,089.10	--	1,000	290	3,300	2,300	47	20	83	<50/<2 ¹	<1.1 ⁸
	7/1/03	1,121.13	--	32.89	0.00	1,088.24	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,121.13	--	32.88	0.00	1,088.25	--	520	<250	1,300	2,300	48	<10	49	<50	2.5/<1.2 ⁸
	8/29/03	1,121.13	--	32.56	0.00	1,088.57	--	--	--	--	--	--	--	--	--	--
	10/24/03	1,121.13	--	32.50	0.00	1,088.63	--	790	120	870	1,200	28	3.7	43	<0.5 ¹²	<1.2 ⁸
	1/13/04	1,121.13	--	32.65	0.00	1,088.48	--	810	180	2,300	1,900	41	13	79	<20	<1.2 ⁸
	4/14/04	1,121.13	--	32.53	0.00	1,088.60	--	730	110	2,300	3,000	56	22	92	<200	<1.2 ⁸
	7/13/04	1,121.13	--	32.45	0.00	1,088.68	--	850	180	2,000	3,000	51	24	95	<100	<0.99 ⁸
	10/13/04	1,121.13	--	31.30	0.00	1,089.83	--	150	160	1,300	3,500	47	36	53	<25	<0.99 ⁸
	1/12/05	1,121.13	--	32.17	0.00	1,088.96	--	330	<100	2,500	3,000	50	27	120	--	<0.99 ⁸
	5/4/05	1,121.13	--	33.73	0.00	1,087.40	--	630	210	1,200	1,400	26	11	35	<25	<0.87 ⁸

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CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-21 (cont.)																
	7/14/05	1,121.13	--	31.87	0.00	1,089.26	--	650	<100	1,400	1,600	34	15	47	<20	<0.87 ⁸
	10/27/05	1,121.13	--	31.79	0.00	1,089.34	--	480	120	2,300	3,500	53	39	83	--	<0.87 ⁸
	3/14/06	1,121.13	--	30.53	0.00	1,090.60	--	630	<100	3,200	3,700	72	81	130	--	--
	5/22/06	1,121.13	--	30.67	0.00	1,090.46	--	440	<110	3,700	3,000	69	85	180	--	--
	10/3/06	1,121.13	--	28.64	0.00	1,092.49	--	720	3,900	<95	3,500	69	150	170	--	--
	5/23/07	1,121.13	--	28.08	0.00	1,093.05	--	1,100	450	3,600	2,900	65	150	130	--	--
	11/6/07	1,121.13	--	26.76	0.00	1,094.37	--	910	400	6,600	5,300	130	280	250	--	--
	5/14/08	1,121.13	--	31.23	0.00	1,089.90	--	370	160	2,800	1,800	43	58	95	--	--
	5/18-19/09	1,121.13	--	32.90	0.00	1,088.23	--	400	300	1,700	1,700	33	22	34	--	--
	5/18-19/09 (D)	1,121.13	--	--	--	--	--	720	650	1,800	1,700	35	25	40	--	--
	5/18-20/10	1,121.13	--	32.46	0.00	1,088.67	--	400	100	2,500	1,300	35	27	26	--	--
	5/5/11	1,121.13	--	30.83	0.00	1,090.30	--	800	1,700	3,600	1,600	48	82	73	--	--
	5/22/12	1,121.13	--	31.65	0.00	1,089.48	--	690	2,200	2,000	1,300	33	32	27	--	--
	5/14/13	1,121.13	--	31.12	0.00	1,090.01	--	54	<67	2,000	1,400	37	36	39	--	--
	5/5/14	1,121.13	--	32.79	0.00	1,088.34	--	54	190	890	650	11	<0.5	6.9	--	--
	6/18/15	1,121.13	--	30.08	0.00	1,091.05	--	55/770	<67/420	2,400	1,100	24	15	20	--	--
	9/21/15	1,121.13	--	28.66	0.00	1,092.47	--	120/990	170/600	3,000	1,100	31	16	24	--	--
MW-22																
	3/6/03	1,120.21	31.40	31.41	0.01	1,088.81	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,120.21	31.55	32.05	0.50	1,088.56	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	5/14/03	1,120.21	31.94	32.90	0.96	1,088.08	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,120.21	31.99	32.60	0.61	1,088.10	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,120.21	31.80	33.20	1.40	1,088.13	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,120.21	31.72	33.30	1.58	1,088.17	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	8/8/03	1,120.21	32.14	32.82	0.68	1,087.93	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,120.21	32.87	33.46	0.59	1,087.22	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,120.21	30.54	32.03	1.49	1,089.37	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,120.21	31.15	33.00	1.85	1,088.69	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,120.21	31.20	32.11	0.91	1,088.83	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,120.21	31.32	32.19	0.87	1,088.72	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	11/6/03	1,120.21	31.40	32.05	0.65	1,088.68	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,120.21	31.60	32.02	0.04	1,088.22	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,120.21	31.91	32.52	0.61	1,088.18	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	2/18/04	1,120.21	32.01	32.57	0.56	1,088.09	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,120.21	32.24	32.87	0.63	1,087.84	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,120.21	32.17	32.73	0.56	1,087.93	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	5/11/04	1,120.21	32.53	33.04	0.51	1,087.58	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,120.21	32.50	33.00	0.50	1,087.61	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,120.21	31.77	32.23	0.46	1,088.35	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,120.21	31.44	31.84	0.40	1,088.69	--	--	--	--	--	--	--	--	--	--
	9/15/2004 ⁶	1,120.21	32.35	32.44	0.09	1,087.84	--	--	--	--	--	--	--	--	--	--
	10/13/2004 ⁶	1,120.21	--	31.12	0.00	1,089.09	--	--	--	--	--	--	--	--	--	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-22 (cont.)																
	11/17/04	1,120.21	31.15	31.16	0.01	1,089.06	--	--	--	--	--	--	--	--	--	--
	1/13/05	1,120.21	32.26	32.27	0.01	1,087.95	--	--	--	--	--	--	--	--	--	--
	2/18/05	1,120.21	32.55	32.60	0.05	1,087.65	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,120.21	33.32	33.72	0.40	1,086.81	--	--	--	--	--	--	--	--	--	--
	5/2-5/05	1,120.21	33.62	34.12	0.50	1,086.49	--	--	--	--	--	--	--	--	--	--
	6/2/05	1,120.21	33.14	33.28	0.14	1,087.04	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,120.21	32.16	32.35	0.19	1,088.01	--	--	--	--	--	--	--	--	--	--
	9/15/05	1,120.21	31.37	31.56	0.19	1,088.80	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,120.21	31.19	31.22	0.03	1,089.01	--	--	--	--	--	--	--	--	--	--
	1/18/06	1,120.21	31.62	31.68	0.06	1,088.58	--	--	--	--	--	--	--	--	--	--
	2/27/2006 ⁶	1,120.21	--	30.40	0.00	1,089.81	--	--	--	--	--	--	--	--	--	--
	3/13/2006 ⁶	1,120.21	--	30.63	0.00	1,089.58	--	--	--	--	--	--	--	--	--	--
	4/19/2006 ⁶	1,120.21	--	30.97	0.00	1,089.24	--	--	--	--	--	--	--	--	--	--
	5/22/2006 ⁶	1,120.21	--	30.74	0.00	1,089.47	--	--	--	--	--	--	--	--	--	--
	10/2/2006 ⁶	1,120.21	--	28.14	0.00	1,092.07	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,120.21	--	27.47	0.00	1,092.74	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,120.21	--	26.70	0.00	1,093.51	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,120.21	--	25.61	0.00	1,094.60	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,120.21	--	26.78	0.00	1,093.43	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,120.21	--	29.18	0.00	1,091.03	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,120.21	--	30.59	0.00	1,089.62	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,120.21	--	28.14	0.00	1,092.07	--	--	--	--	--	--	--	--	--	--
	2/3-4/09	1,120.21	20.96	20.97	0.01	1,099.25	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,120.21	32.01	32.12	0.11	1,088.18	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,120.21	31.73	31.83	0.10	1,088.46	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,120.21	31.42	31.54	0.12	1,088.77	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,120.21	31.00	31.13	0.13	1,089.18	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,120.21	30.43	30.51	0.08	1,089.76	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,120.21	30.32	30.40	0.08	1,089.87	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,120.21	30.59	30.65	0.06	1,089.61	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,120.21	--	30.95	0.00	1,089.26	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,120.21	31.51	31.54	0.03	1,088.69	--	--	--	--	--	--	--	--	--	--
	4/12/10	1,120.21	31.63	31.68	0.05	1,088.57	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,120.21	31.26	31.32	0.06	1,088.94	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,120.21	29.65	29.73	0.08	1,090.54	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,120.21	27.70	27.72	0.02	1,092.51	--	--	--	--	--	--	--	--	--	--
	11/16/10	1,120.21	--	27.02	0.00	1,093.19	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,120.21	--	28.14	0.00	1,092.07	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,120.21	--	29.43	0.00	1,090.78	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,120.21	--	27.27	0.00	1,092.94	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,120.21	32.15	32.20	0.05	1,088.05	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,120.21	--	22.15	0.00	1,098.06	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-22 (cont.)																
	3/20/12	1,120.21	29.35	29.40	0.05	1,090.85	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,120.21	29.75	29.95	0.20	1,090.42	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,120.21	27.65	27.70	0.05	1,092.55	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,120.21	26.86	26.88	0.02	1,093.35	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,120.21	--	28.42	0.00	1,091.79	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,120.21	--	28.51	0.00	1,091.70	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,120.21	29.10	29.12	0.02	1,091.11	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	
	12/29/13	1,120.21	--	28.89	0.00	1,091.32	--	--	--	--	--	--	--	--	--	--
	2/19/14	1,120.21	31.48	31.51	0.03	1,088.72	--	--	--	--	--	--	--	--	--	--
	4/14/14	1,120.21	31.57	31.59	0.02	1,088.64	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,120.21	29.74	29.77	0.03	1,090.46	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,120.21	29.74	29.76	0.02	1,090.47	--	--	--	--	--	--	--	--	--	--
	11/12/14	1,120.21	--	27.11	0.00	1,093.10	--	--	--	--	--	--	--	--	--	--
	2/9/15	1,120.21	30.91	30.93	0.02	1,089.30	--	--	--	--	--	--	--	--	--	--
	6/18/15	1,120.21	29.63	29.65	0.00	1,090.56	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,120.21	27.31	27.36	0.05	1,092.89	--	--	--	--	--	--	--	--	--	--
MW-23																
	3/6/03	1,118.69	--	34.42	0.00	1,084.27	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,118.69	--	35.15	0.00	1,083.54	--	<250	270	<50	<0.5	<0.5	<0.5	<5.0	--	--
	7/1/03	1,118.69	--	33.26	0.00	1,085.43	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,118.69	--	32.45	0.00	1,086.24	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--
	10/24/03	1,118.69	--	31.18	0.00	1,087.51	--	<76	<94	<50	<0.5	<0.5	<0.5	<1.5	--	--
	1/14/04	1,118.69	--	33.50	0.00	1,085.19	--	<400	<500	<50	<0.2	<0.2	<0.2	<0.6	--	--
	4/14/04	1,118.69	--	35.56	0.00	1,083.13	--	<77	<96	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
	7/13/04	1,118.69	--	32.05	0.00	1,086.64	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,118.69	--	30.27	0.00	1,088.42	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,118.69	--	34.08	0.00	1,084.61	--	--	--	--	--	--	--	--	--	--
	5/4/05	1,118.69	--	35.16	0.00	1,083.53	--	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	7/13/05	1,118.69	--	30.63	0.00	1,088.06	--	<82	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	10/26/05	1,118.69	--	28.72	0.00	1,089.97	--	--	--	--	--	--	--	--	--	--
	7/13/06	1,118.69	--	30.63	0.00	1,088.06	--	--	--	--	--	--	--	--	--	--
	3/14/06	1,118.69	--	32.18	0.00	1,086.51	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,118.69	--	22.65	0.00	1,096.04	--	<87	<110	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/24/07	1,118.69	--	21.94	0.00	1,096.75	--	<82	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	11/6/07	1,118.69	--	21.94	0.00	1,096.75	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,118.69	--	34.21	0.00	1,084.48	--	<78	<98	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-19/09	1,118.69	--	34.52	0.00	1,084.17	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	1,118.69	--	32.35	0.00	1,086.34	--	43	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	1,118.69	--	32.75	0.00	1,085.94	--	<30	<71	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	1,118.69	--	31.80	0.00	1,086.89	--	<30	<71	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/13	1,118.69	--	31.14	0.00	1,087.55	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/14	1,118.69	--	33.61	0.00	1,085.08	--	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-23 (cont.)																
	6/18/15	1,118.69	--	29.20	0.00	1,089.49	--	<30/<30	<71/<71	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,118.69	--	27.50	0.00	1,091.19	--	85/140	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
MW-24																
	3/5/03	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/03	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/04	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,120.61	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,120.54	--	53.65	0.00	1,066.89	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,120.54	--	33.12	0.00	1,087.42	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,120.54	--	53.32	0.00	1,067.22	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,120.54	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,120.54	--	53.20	0.00	1,067.34	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-25																
	3/6/03	1,121.43	40.78	42.60	1.82	1,080.29	--	--	--	--	--	--	--	--	--	--
	4/4/03	1,121.43	40.55	47.25	6.70	1,079.54	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	5/14/03	1,121.43	40.24	49.10	8.86	1,079.42	--	--	--	--	--	--	--	--	--	--
	6/14/03	1,121.43	40.26	49.06	8.80	1,079.41	--	--	--	--	--	--	--	--	--	--
	6/26/03	1,121.43	40.16	49.21	9.05	1,079.46	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,121.43	39.96	49.23	9.27	1,079.62	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,121.43	39.99	49.25	9.26	1,079.59	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	8/8/03	1,121.43	40.12	49.22	9.10	1,079.49	--	--	--	--	--	--	--	--	--	--
	8/17/03	1,121.43	41.74	50.50	8.76	1,077.94	--	--	--	--	--	--	--	--	--	--
	9/5/03	1,121.43	40.00	47.92	7.92	1,079.85	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,121.43	40.68	46.50	5.82	1,079.59	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,121.43	41.22	43.95	2.73	1,079.66	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	11/6/03	1,121.43	41.80	42.36	0.56	1,079.52	--	--	--	--	--	--	--	--	--	--
	11/25/03	1,121.43	41.75	42.02	0.27	1,079.63	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,121.43	42.19	42.70	0.51	1,079.14	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--
	2/18/04	1,121.43	41.98	42.40	0.42	1,079.37	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,121.43	42.41	42.94	0.53	1,078.91	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,121.43	42.30	42.75	0.45	1,079.04	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL				--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-25 (cont.)																
	5/11/04	1,121.43	42.46	42.83	0.37	1,078.90	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,121.43	42.85	43.30	0.45	1,078.49	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,121.43	42.48	42.80	0.32	1,078.89	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,121.43	41.99	42.33	0.34	1,079.37	--	--	--	--	--	--	--	--	--	--
	9/15/2004 ⁶	1,121.43	41.86	41.96	0.10	1,079.55	--	--	--	--	--	--	--	--	--	--
	10/13/2004 ⁶	1,121.43	41.80	41.88	0.08	1,079.61	--	--	--	--	--	--	--	--	--	--
	11/17/04	1,121.43	41.65	41.79	0.14	1,079.75	--	--	--	--	--	--	--	--	--	--
	1/13/05	1,121.43	42.52	42.90	0.38	1,078.83	--	--	--	--	--	--	--	--	--	--
	2/18/05	1,121.43	42.52	42.71	0.19	1,078.87	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,121.43	42.96	43.12	0.16	1,078.44	--	--	--	--	--	--	--	--	--	--
	5/5/05	1,121.43	43.33	43.52	0.19	1,078.06	--	--	--	--	--	--	--	--	--	--
	6/2/05	1,121.43	42.86	42.91	0.05	1,078.56	--	--	--	--	--	--	--	--	--	--
	7/13/2005 ⁶	1,121.43	--	42.51	0.00	1,078.92	--	--	--	--	--	--	--	--	--	--
	9/15/05	1,121.43	41.63	41.83	0.20	1,079.76	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,121.43	41.46	41.54	0.08	1,079.95	--	--	--	--	--	--	--	--	--	--
	1/18/06	1,121.43	41.38	41.50	0.12	1,080.03	--	--	--	--	--	--	--	--	--	--
	2/27/06	1,121.43	41.00	43.90	2.90	1,079.85	--	--	--	--	--	--	--	--	--	--
	3/13/06	1,121.43	40.85	40.92	0.07	1,080.57	--	--	--	--	--	--	--	--	--	--
	4/19/06	1,121.43	41.21	41.42	0.21	1,080.18	--	--	--	--	--	--	--	--	--	--
	5/22/2006 ⁶	1,121.43	--	40.84	0.00	1,080.59	--	--	--	--	--	--	--	--	--	--
	10/2/2006 ⁶	1,121.43	--	39.10	0.00	1,082.33	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,121.43	--	39.36	0.00	1,082.07	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,121.43	--	38.48	0.00	1,082.95	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,121.43	37.59	37.93	0.34	1,083.77	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,121.43	37.44	38.02	0.58	1,083.87	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,121.43	39.46	39.89	0.43	1,081.88	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,121.43	40.91	41.30	0.39	1,080.44	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,121.43	39.48	39.53	0.05	1,081.94	--	--	--	--	--	--	--	--	--	--
	2/4/09	1,121.43	40.70	40.84	0.14	1,080.70	--	--	--	--	--	--	--	--	--	--
	5/19/09	1,121.43	42.57	42.58	0.01	1,078.86	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,121.43	--	41.03	0.00	1,080.40	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,121.43	--	41.91	0.00	1,079.52	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,121.43	--	41.50	0.00	1,079.93	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,121.43	--	40.85	0.00	1,080.58	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,121.43	--	40.45	0.00	1,080.98	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,121.43	--	40.59	0.00	1,080.84	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,121.43	--	40.63	0.00	1,080.80	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,121.43	--	41.39	0.00	1,080.04	--	--	--	--	--	--	--	--	--	--
	5/20/10	1,121.43	41.28	41.31	0.03	1,080.14	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,121.43	40.03	40.05	0.02	1,081.40	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,121.43	38.32	38.39	0.07	1,083.10	--	--	--	--	--	--	--	--	--	--
	10/13/10	1,121.43	37.00	37.05	0.05	1,084.42	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-25 (cont.)																
	11/16/10	1,121.43	36.80	36.90	0.10	1,084.61	--	--	--	--	--	--	--	--	--	--
	1/11/11	1,121.43	38.16	38.19	0.03	1,083.26	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,121.43	38.21	38.24	0.03	1,083.21	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,121.43	39.61	40.22	0.61	1,081.70	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,121.43	39.62	35.64	0.02	1,085.81	--	--	--	--	--	--	--	--	--	--
	7/11/11	1,121.43	38.80	38.84	0.04	1,082.62	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,121.43	37.90	38.00	0.10	1,083.51	--	--	--	--	--	--	--	--	--	--
	9/9/11	1,121.43	37.45	37.50	0.05	1,083.97	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,121.43	36.65	36.78	0.13	1,084.75	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,121.43	37.05	37.15	0.10	1,084.36	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,121.43	--	37.55	0.00	1,083.88	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,121.43	--	37.68	0.00	1,083.75	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,121.43	39.95	40.10	0.15	1,081.45	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,121.43	40.55	40.60	0.05	1,080.87	--	--	--	--	--	--	--	--	--	--
	4/21/12	1,121.43	--	36.90	0.00	1,084.53	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,121.43	40.40	40.60	0.20	1,080.99	--	--	--	--	--	--	--	--	--	--
	6/25/12 ⁶	1,121.43	41.73	41.96	0.23	1,079.65	--	--	--	--	--	--	--	--	--	--
	7/20/12 ⁶	1,121.43	39.36	39.42	0.06	1,082.06	--	--	--	--	--	--	--	--	--	--
	8/24/12 ⁶	1,121.43	38.13	38.20	0.07	1,083.29	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,121.43	37.18	37.24	0.06	1,084.24	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,121.43	37.03	37.21	0.18	1,084.36	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,121.43	--	38.36	0.00	1,083.07	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,121.43	--	38.42	0.00	1,083.01	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,121.43	--	39.72	0.00	1,081.71	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,121.43	--	39.82	0.00	1,081.61	--	--	--	--	--	--	--	--	--	--
	6/29/13	1,121.43	--	41.07	0.00	1,080.36	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,121.43	--	41.22	0.00	1,080.21	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,121.43	37.77	37.81	0.04	1,083.65	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,121.43	41.30	41.33	0.03	1,080.12	--	--	--	--	--	--	--	--	--	--
	11/26/13	1,121.43	36.83	36.89	0.06	1,084.59	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,121.43	--	38.86	0.00	1,082.57	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,121.43	--	39.78	0.00	1,081.65	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,121.43	--	39.11	0.00	1,082.32	--	--	--	--	--	--	--	--	--	--
	3/18/14	1,121.43	--	45.11	0.00	1,076.32	--	--	--	--	--	--	--	--	--	--
	4/14/14	1,121.43	--	36.83	0.00	1,084.60	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,121.43	--	40.43	0.00	1,081.00	--	--	--	--	--	--	--	--	--	--
	6/17/14	1,121.43	41.02	41.05	0.03	1,080.40	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,121.43	--	41.88	0.00	1,079.55	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,121.43	39.36	39.40	0.04	1,082.06	--	--	--	--	--	--	--	--	--	--
	9/22/14	1,121.43	--	41.31	0.00	1,080.12	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,121.43	41.51	41.53	0.02	1,079.92	--	--	--	--	--	--	--	--	--	--
	11/13/14	1,121.43	41.63	41.65	0.02	1,079.80	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-25 (cont.)																	
	12/23/14	1,121.43	--	37.60	0.00	1,083.83	--	--	--	--	--	--	--	--	--	--	
	1/18-19/15	1,121.43	INACCESSIBLE- FROZEN SHUT				--	--	--	--	--	--	--	--	--	--	--
	2/9/15	1,121.43	--	37.77	0.00	1,083.66	--	--	--	--	--	--	--	--	--	--	
	6/19/15	1,121.43	41.67	41.69	0.02	1,079.76	--	--	--	--	--	--	--	--	--	--	
	9/21/15	1,121.43	35.64	35.70	0.06	1,085.78	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--	--	
MW-26																	
	3/6/03	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	4/1-4/03	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/23/03	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/23/03	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1/14/04	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/13/04	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/14/04	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/13/04	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1/12/05	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/05	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/13/05	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/26/05	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/22/06	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/2/06	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/22/07	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/6/07	1,119.58	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/18-19/09	1,119.58	--	49.10	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--	
ABANDONED																	
MW-27																	
	3/6/03	1,125.40	--	32.11	0.00	1,093.29	--	--	--	--	--	--	--	--	--	--	
	4/1-4/03	1,125.40	--	32.36	0.00	1,093.04	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	7/1/03	1,125.40	--	33.06	0.00	1,092.34	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,125.40	--	33.05	0.00	1,092.35	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	10/24/03	1,125.40	--	32.95	0.00	1,092.45	--	<77	<96	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	1/14/04	1,125.40	--	33.50	0.00	1,091.90	--	250	<95	<50	<0.2	<0.2	<0.2	<0.6	--	--	
	4/13/04	1,125.40	--	33.73	0.00	1,091.67	--	97	<94	<50	1.9	<0.5	<0.5	<1.5	<2.5	--	
	7/12/04	1,125.40	--	33.78	0.00	1,091.62	--	--	--	--	--	--	--	--	--	--	
	10/13/04	1,125.40	--	31.78	0.00	1,093.62	--	--	--	--	--	--	--	--	--	<0.99 ⁸	
	1/12/05	1,125.40	--	32.66	0.00	1,092.74	--	--	--	--	--	--	--	--	--	<0.99 ⁸	
	5/2/05	1,125.40	--	33.78	0.00	1,091.62	--	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸	
	7/13/05	1,125.40	--	33.45	0.00	1,091.95	--	--	--	--	--	--	--	--	--	--	
	10/27/05	1,125.40	--	32.81	0.00	1,092.59	--	<84	<110	<48	<0.5	<0.5	<0.5	<1.5	--	<0.87 ⁸	
	3/14/06	1,125.40	--	31.90	0.00	1,093.50	--	--	--	--	--	--	--	--	--	--	
	5/22/06	1,125.40	--	31.97	0.00	1,093.43	--	--	--	--	--	--	--	--	--	--	
	10/2/06	1,125.40	--	30.19	0.00	1,095.21	--	--	--	--	--	--	--	--	--	--	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-27 (cont.)																
	5/22/07	1,125.40	--	30.70	0.00	1,094.70	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,125.40	--	--	--	--	NOT SAMPLED			--	--	--	--	--	--	--
	5/13/08	1,125.40	--	32.50	0.00	1,092.90	NOT SAMPLED			--	--	--	--	--	--	--
	5/18-19/09	1,125.40	33.13	33.80	0.67	1,092.14	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	7/30/09	1,125.40	32.88	33.39	0.51	1,092.42	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,125.40	32.50	32.94	0.44	1,092.81	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,125.40	32.02	32.25	0.23	1,093.33	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,125.40	31.88	32.21	0.33	1,093.45	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,125.40	32.12	32.73	0.61	1,093.16	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,125.40	32.36	32.82	0.46	1,092.95	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,125.40	32.60	33.15	0.55	1,092.69	--	--	--	--	--	--	--	--	--	--
	4/12/10	1,125.40	32.66	33.17	0.51	1,092.64	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,125.40	32.42	32.61	0.19	1,092.94	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	7/6/10	1,125.40	31.32	31.38	0.06	1,094.07	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,125.40	30.50	30.52	0.02	1,094.90	--	--	--	--	--	--	--	--	--	--
	11/16/10	1,125.40	--	29.60	0.00	1,095.80	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,125.40	--	30.28	0.00	1,095.12	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,125.40	31.02	31.08	0.06	1,094.37	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,125.40	--	30.28	0.00	1,095.12	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,125.40	--	29.65	0.00	1,095.75	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,125.40	--	31.20	0.00	1,094.20	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,125.40	--	31.25	0.00	1,094.15	--	--	--	--	--	--	--	--	--	--
	5/22/12	1,125.40	--	31.50	0.00	1,093.90	--	97,000	3,200	1,200	<0.5	<0.5	<0.5	<1.5	--	--
	8/24/12	1,125.40	--	30.48	0.00	1,094.92	--	--	--	--	--	--	--	--	--	--
	12/1/12	1,125.40	--	29.90	0.00	1,095.50	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,125.40	--	30.68	0.00	1,094.72	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,125.40	--	29.97	0.00	1,095.43	--	--	--	--	--	--	--	--	--	--
	5/14/13	1,125.40	--	31.04	0.00	1,094.36	--	130,000	<6,800	460	0.6	<0.5	<0.5	<1.5	--	--
	12/28/13	1,125.40	--	32.08	0.00	1,093.32	--	--	--	--	--	--	--	--	--	--
	2/19/14	1,125.40	--	30.22	0.00	1,095.18	--	--	--	--	--	--	--	--	--	--
	4/15/14	1,125.40	--	31.13	0.00	1,094.27	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,125.40	--	31.53	0.00	1,093.87	--	2,600	310	85,000	190	2,900	1,300	12,000	--	--
	8/4/14	1,125.40	--	32.53	0.00	1,092.87	--	--	--	--	--	--	--	--	--	--
	11/12/14	1,125.40	--	29.73	0.00	1,095.67	--	--	--	--	--	--	--	--	--	--
	2/9/15	1,125.40	--	30.23	0.00	1,095.17	--	--	--	--	--	--	--	--	--	--
	6/18/15	1,125.40	--	30.20	0.00	1,095.20	--	57,000/90,000	<6,600/<6,600	550	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,125.40	--	29.52	0.00	1,095.88	--	89,000/92,000	<6,600/<6,600	400	<0.5	<0.5	<0.5	<1.5	--	--
MW-28																
	3/6/03	1,124.71	--	40.65	--	1,084.06	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,124.71	--	30.55	0.00	1,094.16	--	330	<250	11,000	<10	8.5	1.4	780	<50/<2 ⁷	1.7 ⁸
	7/1/03	1,124.71	--	31.66	--	1,093.05	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,124.71	--	31.70	0.00	1,093.01	--	<250	<250	3,800	<10	5.0	0.8	260	<50	2.2 ⁸

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead	
MW-28 (cont.)																	
	7/15/03 (D)	1,124.71	--	--	--	1,124.71	--	<250	<250	4,300	<10	4.4	1.0	280	--	--	
	10/24/03	1,124.71	--	30.35	0.00	1,094.36	--	220	<95	2,400	<5.0	2.8	0.6	170	<20	<1.2 ^s	
	1/14/04	1,124.71	--	33.21	0.00	1,091.50	--	280	<95	6,700	<5.0	1.6	0.6	480	<20	<1.2 ^s	
	4/14/04	1,124.71	--	29.82	0.00	1,094.89	--	<78	<98	700	<2.0	0.7	<0.5	49	<20	<1.2 ^s	
	7/13/04	1,124.71	--	29.82	0.00	1,094.89	--	130	<100	840	<2.0	0.6	<0.5	69	<10	<0.99 ^s	
	10/13/04	1,124.71	--	28.72	0.00	1,095.99	--	<82	<100	<50	1.4	<0.5	<0.5	2.0	<2.5	<0.99 ^s	
	1/12/05	1,124.71	--	29.99	0.00	1,094.72	--	<78	<97	730	2.5	1	<0.5	50.0	--	<0.99 ^s	
	5/2/05	1,124.71	--	31.59	0.00	1,093.12	--	250	<100	560	<2.0	0.6	<0.5	26	16	<0.87 ^s	
	7/13/05	1,124.71	--	31.31	0.00	1,093.40	--	130	<110	140	<0.5	<0.5	<0.5	8.5	3.7	<0.87 ^s	
	10/27/05	1,124.71	--	30.08	0.00	1,094.63	--	310	<97	340	<2.0	<2.0	<0.5	17	--	<0.87 ^s	
	3/14/06	1,124.71	--	27.61	0.00	1,097.10	--	<81	<100	<48	1.7	<0.5	0.7	2.1	--	--	
	5/22/06	1,124.71	--	28.31	0.00	1,096.40	--	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--	
	10/3/06	1,124.71	--	27.34	0.00	1,097.37	--	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--	
	5/22/07	1,124.71	--	27.58	0.00	1,097.13	--	<76	<95	<50	0.7	<0.5	<0.5	<1.5	--	--	
	11/6/07	1,124.71	--	26.70	0.00	1,098.01	--	210	<100	<50	0.9	<0.5	0.8	2.0	--	--	
	5/14/08	1,124.71	--	28.99	0.00	1,095.72	--	<85	<110	140	<5.0	1.2	0.5	<5.0	--	--	
	5/18-19/09	1,124.71	--	31.13	0.00	1,093.58	--	35	<67	110	<0.5	<0.5	<0.5	2.4	--	--	
	5/18-20/10	1,124.71	--	29.58	0.00	1,095.13	--	46	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	5/5/11	1,124.71	--	28.43	0.00	1,096.28	--	<32	<74	<50	1.7	<0.5	<0.5	<1.5	--	--	
	5/22/12	1,124.71	--	30.05	0.00	1,094.66	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	5/15/13	1,124.71	--	28.56	0.00	1,096.15	--	76	170	180	7.1	<2.0	0.5	<1.5	--	--	
	5/7/14	1,124.71	--	29.63	0.00	1,095.08	--	580	<69	3,300	9.4	130	55	380	--	--	
	6/18/15	1,124.71	--	26.41	0.00	1,098.30	--	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	9/21/15	1,124.71	--	25.73	0.00	1,098.98	--	73/68	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	
MW-29																	
	3/6/03	1,124.74	--	28.40	0.00	1,096.34	--	--	--	--	--	--	--	--	--	--	
	4/1-4/03	1,124.74	--	27.40	0.00	1,097.34	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	7/1/03	1,124.74	--	28.22	0.00	1,096.52	--	--	--	--	--	--	--	--	--	--	
	7/15/03	1,124.74	--	28.26	0.00	1,096.48	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	10/24/03	1,124.74	--	27.69	0.00	1,097.05	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ^s	
	1/13/04	1,124.74	--	27.58	0.00	1,097.16	--	<80	<100	<50	<0.2	<0.2	<0.2	<0.6	--	<1.2 ^s	
	4/13/04	1,124.74	--	28.10	0.00	1,096.64	--	DISCONTINUED FROM SAMPLING PROGRAM (IN MIDDLE OF STREET)								--	--
	10/13/04	1,124.74	--	26.54	0.00	1,098.20	--	--	--	--	--	--	--	--	--	--	
	1/12/05	1,124.74	--	27.70	0.00	1,097.04	--	--	--	--	--	--	--	--	--	--	
DISCONTINUED FROM SAMPLING PROGRAM DUE TO SAFETY CONCERNS (WELL LOCATED IN CENTER OF TRAFFIC LANE).																	
MW-30																	
	3/6/03	1,121.75	--	84.33	--	1,037.42	--	--	--	--	--	--	--	--	--	--	
	4/1-4/03	1,121.75	--	85.92	0.00	1,035.83	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	4/1-4/03 (D)	1,121.75	--	--	--	--	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	7/15/03	1,121.75	--	83.15	0.00	1,038.60	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--	
	10/24/03	1,121.75	--	75.74	0.00	1,046.01	--	<75	<94	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ^s	
	1/13/04	1,121.75	--	78.20	0.00	1,043.55	--	<76	<95	<50	<0.2	<0.2	<0.2	<0.6	<0.3	<1.2 ^s	

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590
232 East Woodin Avenue
Chelan, Washington
Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-30 (cont.)																
	4/13/04	1,121.75	--	84.69	0.00	1,037.06	--	<80	<100	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ⁸
	5/11/04	1,121.75	--	85.80	0.00	1,035.95	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,121.75	--	85.46	0.00	1,036.29	--	--	--	--	--	--	--	--	--	--
	7/13/04	1,121.75	--	82.90	0.00	1,038.85	--	<400	<500	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ¹⁹
	9/15/04	1,121.75	--	75.91	0.00	1,045.84	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,121.75	--	74.69	0.00	1,047.06	--	<80	<100	<50	0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	11/17/04	1,121.75	--	76.53	0.00	1,045.22	--	--	--	--	--	--	--	--	--	--
	1/12/05 (D)	1,121.75	--	79.95	0.00	1,041.80	--	<83	<100	<48	<0.5	<0.5	<0.5	<1.5	--	<0.99 ⁸
	1/12/05	1,121.75	--	79.95	0.00	1,041.80	--	<82	<100	<48	<0.5	<0.5	<0.5	<1.5	--	<0.99 ⁸
	2/18/05	1,121.75	--	82.11	0.00	1,039.64	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,121.75	--	83.73	0.00	1,038.02	--	--	--	--	--	--	--	--	--	--
	5/3/05	1,121.75	--	84.06	0.00	1,037.69	--	<81	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	6/2/05	1,121.75	--	82.34	0.00	1,039.41	--	--	--	--	--	--	--	--	--	--
	7/14/05	1,121.75	--	77.00	0.00	1,044.75	--	<87	<110	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	9/14/05	1,121.75	--	74.30	0.00	1,047.45	--	--	--	--	--	--	--	--	--	--
	10/27/05	1,121.75	--	75.28	0.00	1,046.47	--	<85	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	3/14/06	1,121.75	--	85.64	0.00	1,036.11	--	<86	<110	<0.5	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/06	1,121.75	--	90.21	0.00	1,031.54	--	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/3/06	1,121.75	--	74.98	0.00	1,046.77	--	<83	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/07	1,121.75	--	80.22	0.00	1,041.53	--	<81	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	11/6/07	1,121.75	--	72.33	0.00	1,049.42	--	<82	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/08	1,121.75	--	89.49	0.00	1,032.26	--	<77	<96	50	<0.5	<0.5	<0.5	<1.5	--	--
	05/18-19/09	1,121.75	--	89.50	0.00	1,032.25	--	35	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--
	05/18-20/10	1,121.75	--	73.14	0.00	1,048.61	--	62	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--
	8/23/10	1,121.75	--	64.92	0.00	1,056.83	--	1,100	1,200	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	1,121.75	--	86.67	0.00	1,035.08	--	<32	120	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	1,121.75	--	76.10	0.00	1,045.65	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/14/13	1,121.75	--	75.39	0.00	1,046.36	--	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/6/14	1,121.75	--	76.69	0.00	1,045.06	--	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/17/15	1,121.75	--	70.36	0.00	1,051.39	--	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,121.75	--	65.28	0.00	1,056.47	--	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
MW-31																
	3/7/03	1,120.36	--	83.10	--	1,037.26	--	--	--	--	--	--	--	--	--	--
	4/1-4/03	1,120.36	--	84.68	0.00	1,035.68	--	<250	1,100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	7/15/03	1,120.36	--	81.58	0.00	1,038.78	--	<250	<250	<50	<0.5	<0.5	<0.5	<1.5	--	--
	10/24/03	1,120.36	--	74.25	0.00	1,046.11	--	690	150	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ⁸
	1/13/04	1,120.36	--	76.70	0.00	1,043.66	--	<100	<130	<50	<0.2	<0.2	<0.2	<0.6	<0.3	<1.2 ⁸
	1/13/04 (D)	1,120.36	--	76.70	0.00	1,043.66	--	<94	<120	<50	<0.2	<0.2	<0.2	<0.6	<0.3	<1.2 ⁸
	4/13/04	1,120.36	--	83.45	0.00	1,036.91	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ⁸
	4/13/04 (D)	1,120.36	--	83.45	0.00	1,036.91	--	<75	<94	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<1.2 ⁸
	5/11/04	1,120.36	--	84.53	0.00	1,035.83	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,120.36	--	84.15	0.00	1,036.21	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-31 (cont.)																
	7/13/04	1,120.36	--	81.61	0.00	1,038.75	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	9/15/04	1,120.36	--	74.44	0.00	1,045.92	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,120.36	--	73.16	0.00	1,047.20	--	<80	<100	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	11/17/04	1,120.36	--	75.05	0.00	1,045.31	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,120.36	--	78.60	0.00	1,041.76	--	<78	<97	<48	<0.5	<0.5	<0.5	<1.5	--	<0.99 ⁸
	2/18/05	1,120.36	--	WELL ICED OVER - UNABLE TO OPEN			--	--	--	--	--	--	--	--	--	--
	3/29/05	1,120.36	--	82.44	0.00	1,037.92	--	--	--	--	--	--	--	--	--	--
	5/3/05	1,120.36	--	82.77	0.00	1,037.59	--	<83	<100	<48	<0.5	0.5	0.5	<1.5	<2.5	<0.87 ⁸
	6/2/05	1,120.36	--	80.99	0.00	1,039.37	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,120.36	--	75.55	0.00	1,044.81	--	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	9/14/05	1,120.36	--	72.76	0.00	1,047.60	--	--	--	--	--	--	--	--	--	--
	10/27/05	1,120.36	--	73.88	0.00	1,046.48	--	<81	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	3/14/06	1,120.36	--	84.48	0.00	1,035.88	--	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/06	1,120.36	--	89.00	0.00	1,031.36	--	<86	<110	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/2/06	1,120.36	--	73.46	0.00	1,046.90	--	<77	<96	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/07	1,120.36	--	78.93	0.00	1,041.43	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	--	--
	11/6/07	1,120.36	--	70.82	0.00	1,049.54	--	<84	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/16/08	1,120.36	--	88.29	0.00	1,032.07	--	<78	<98	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-19/09	1,120.36	--	88.35	0.00	1,032.01	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	1,120.36	--	71.85	0.00	1,048.51	--	110	180	<50	<0.5	<0.5	<0.5	<1.5	--	--
	8/23/10	1,120.36	--	63.40	0.00	1,056.96	--	<610	4,900	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	1,120.36	--	85.33	0.00	1,035.03	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	1,120.36	--	74.75	0.00	1,045.61	--	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/14/13	1,120.36	--	74.02	0.00	1,046.34	--	69	<71	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/14	1,120.36	--	75.30	0.00	1,045.06	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/17/15	1,120.36	--	68.79	0.00	1,051.57	--	<28/41	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	1,120.36	--	63.70	0.00	1,056.66	--	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<1.5	--	--
MW-32																
	6/25/03	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/04	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,121.38	--	41.91	0.00	1,079.47	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,121.38	--	41.94	0.00	1,079.44	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,121.38	--	41.95	0.00	1,079.43	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,121.38	--	42.02	0.00	1,079.36	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-32 (cont.)																
	11/6/07	1,121.38	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,121.38	--	41.93	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-33																
	6/30/03	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,122.35	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-34																
	6/26/03	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/14/04	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/04	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	1,120.85	--	27.67	0.00	1,093.18	--	--	--	--	--	--	--	--	--	--
	7/13/05	1,120.85	--	27.73	0.00	1,093.12	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,120.85	--	27.94	0.00	1,092.91	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,120.85	--	27.73	0.00	1,093.12	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,120.85	--	27.79	0.00	1,093.06	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,120.85	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,120.85	--	27.68	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-35																
	6/27/03	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-35 (cont.)																
	1/14/04	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/04	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/12/05	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,119.76	--	37.72	0.00	1,082.04	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/6/07	1,119.76	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,119.76	--	37.75	0.00	-- ¹⁰	--	--	--	--	--	--	--	--	--	--
ABANDONED																
MW-36																
	6/26/03	1,121.19	41.26	41.50	0.24	1,079.88	--	--	--	--	--	--	--	--	--	--
	6/27/03	1,121.19	40.32	43.60	3.28	1,080.21	--	--	--	--	--	--	--	--	--	--
	6/30/03	1,121.19	38.96	48.46	9.50	1,080.33	--	--	--	--	--	--	--	--	--	--
	7/15/03	1,121.19	37.95	49.50	11.55	1,080.93	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	9/5/03	1,121.19	36.42	-- ⁹	--	--	--	--	--	--	--	--	--	--	--	--
	9/17/03	1,121.19	38.05	47.05	9.00	1,081.34	--	--	--	--	--	--	--	--	--	--
	10/4/03	1,121.19	39.65	41.30	1.65	1,081.21	--	--	--	--	--	--	--	--	--	--
	10/23/03	1,121.19	40.11	40.94	0.83	1,080.91	--	--	--	--	--	--	--	--	--	--
	11/6/03	1,121.19	39.86	40.41	0.55	1,081.22	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	11/25/03	1,121.19	39.77	40.19	0.42	1,081.34	--	--	--	--	--	--	--	--	--	--
	1/13/04	1,121.19	40.52	41.25	0.73	1,080.52	--	--	--	--	--	--	--	--	--	--
	2/18/04	1,121.19	40.56	41.06	0.50	1,080.53	--	--	--	--	--	--	--	--	--	--
	3/16/04	1,121.19	40.86	41.45	0.59	1,080.21	--	--	--	--	--	--	--	--	--	--
	4/13/04	1,121.19	40.80	41.19	0.39	1,080.31	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	5/11/04	1,121.19	40.98	41.27	0.29	1,080.15	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,121.19	41.28	41.68	0.40	1,079.83	--	--	--	--	--	--	--	--	--	--
	7/12/04	1,121.19	40.76	40.93	0.17	1,080.40	--	--	--	--	--	--	--	--	--	--
	8/17/04	1,121.19	40.20	40.27	0.07	1,080.98	--	--	--	--	--	--	--	--	--	--
	9/15/2004 ⁶	1,121.19	--	39.73	0.00	1,081.46	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	10/13/2004 ⁶	1,121.19	--	39.66	0.00	1,081.53	--	--	--	--	--	--	--	--	--	--
	11/17/2004 ⁶	1,121.19	--	39.58	0.00	1,081.61	--	--	--	--	--	--	--	--	--	--
	1/13/2005 ⁶	1,121.19	--	39.66	0.00	1,081.53	--	--	--	--	--	--	--	--	--	--
	2/18/2005 ⁶	1,121.19	40.52	42.71	2.19	1,080.23	--	--	--	--	--	--	--	--	--	--
	3/29/2005 ⁶	1,121.19	41.34	41.59	0.25	1,079.80	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	5/2-5/05 ⁶	1,121.19	41.30	41.62	0.32	1,079.83	--	--	--	--	--	--	--	--	--	--
	6/2/2005 ⁶	1,121.19	41.11	41.12	0.01	1,080.08	--	--	--	--	--	--	--	--	--	--
	7/13/2005 ⁶	1,121.19	--	40.56	0.00	1,080.63	--	--	--	--	--	--	--	--	--	--
	9/15/2005 ⁶	1,121.19	39.57	39.58	0.01	1,081.62	--	--	--	--	--	--	--	--	--	--
	10/26/2005 ⁶	1,121.19	--	39.30	0.00	1,081.89	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-36 (cont.)																
	1/18/2006 ⁶	1,121.19	39.80	39.80	0.00	1,081.39	--	--	--	--	--	--	--	--	--	--
	2/27/2006 ⁶	1,121.19	--	38.61	0.00	1,082.58	--	--	--	--	--	--	--	--	--	--
	3/13/06	1,121.19	39.07	39.07	0.00	1,082.12	--	--	--	--	--	--	--	--	--	--
	4/19/06	1,121.19	39.59	39.59	0.00	1,081.60	--	--	--	--	--	--	--	--	--	--
	5/22/06	1,121.19	--	39.23	>0 ²²	1,081.96	--	--	--	--	--	--	--	--	--	--
	10/2/06	1,121.19	36.72	36.76	0.04	1,084.46	--	--	--	--	--	--	--	--	--	--
	12/5/06	1,121.19	36.31	36.70	0.39	1,084.80	--	--	--	--	--	--	--	--	--	--
	5/22/07	1,121.19	--	35.71	0.00	1,085.48	--	--	--	--	--	--	--	--	--	--
	7/19/07	1,121.19	--	34.14	0.00	1,087.05	--	--	--	--	--	--	--	--	--	--
	11/5/07	1,121.19	35.06	36.13	1.07	1,085.92	--	--	--	--	--	--	--	--	--	--
	2/12/08	1,121.19	37.14	38.76	1.62	1,083.73	--	--	--	--	--	--	--	--	--	--
	5/13/08	1,121.19	39.01	39.83	0.82	1,082.02	--	--	--	--	--	--	--	--	--	--
	10/28/08	1,121.19	37.49	37.96	0.47	1,083.61	--	--	--	--	--	--	--	--	--	--
	2/3-4/09	1,121.19	38.59	39.09	0.50	1,082.50	--	--	--	--	--	--	--	--	--	--
	5/18-19/09	1,121.19	40.73	41.46	0.73	1,080.31	--	--	--	--	--	--	--	--	--	--
	6/29/09	1,121.19	40.53	41.03	0.50	1,080.56	--	--	--	--	--	--	--	--	--	--
	7/30/09	1,121.19	40.10	40.46	0.36	1,081.02	--	--	--	--	--	--	--	--	--	--
	8/28/09	1,121.19	39.60	39.83	0.23	1,081.54	--	--	--	--	--	--	--	--	--	--
	10/2/09	1,121.19	38.81	38.87	0.06	1,082.37	--	--	--	--	--	--	--	--	--	--
	11/10/09	1,121.19	--	38.60	0.00	1,082.59	--	--	--	--	--	--	--	--	--	--
	12/15/09	1,121.19	--	38.85	0.00	1,082.34	--	--	--	--	--	--	--	--	--	--
	1/22/10	1,121.19	--	38.97	0.00	1,082.22	--	--	--	--	--	--	--	--	--	--
	3/5/10	1,121.19	39.78	40.10	0.32	1,081.35	--	--	--	--	--	--	--	--	--	--
	4/12/10 ⁶	1,121.19	39.81	40.00	0.19	1,081.34	--	--	--	--	--	--	--	--	--	--
	5/18-20/10	1,121.19	39.52	39.68	0.16	1,081.64	--	--	--	--	--	--	--	--	--	--
	7/6/10	1,121.19	38.05	38.13	0.08	1,083.12	--	--	--	--	--	--	--	--	--	--
	8/23/10	1,121.19	36.16	36.20	0.04	1,085.02	--	--	--	--	--	--	--	--	--	--
	10/13/10	1,121.19	35.09	35.11	0.02	1,086.10	--	--	--	--	--	--	--	--	--	--
	11/16/10	1,121.19	35.60	35.62	0.02	1,085.59	--	--	--	--	--	--	--	--	--	--
	1/11/11	1,121.19	36.36	36.40	0.04	1,084.82	--	--	--	--	--	--	--	--	--	--
	2/11/11	1,121.19	36.50	36.51	0.01	1,084.69	--	--	--	--	--	--	--	--	--	--
	5/5/11	1,121.19	38.60	38.67	0.07	1,082.58	--	--	--	--	--	--	--	--	--	--
	6/8/11	1,121.19	38.24	38.32	0.08	1,082.93	--	--	--	--	--	--	--	--	--	--
	7/11/11 ⁶	1,121.19	36.96	37.00	0.04	1,084.22	--	--	--	--	--	--	--	--	--	--
	8/15/11	1,121.19	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--	--
	9/9/11	1,121.19	35.50	35.55	0.05	1,085.68	--	--	--	--	--	--	--	--	--	--
	10/12/11	1,121.19	--	35.25	0.00	1,085.94	--	--	--	--	--	--	--	--	--	--
	11/29/11	1,121.19	--	35.65	0.00	1,085.54	--	--	--	--	--	--	--	--	--	--
	12/21/11	1,121.19	--	36.05	0.00	1,085.14	--	--	--	--	--	--	--	--	--	--
	1/28/12	1,121.19	--	35.94	0.00	1,085.25	--	--	--	--	--	--	--	--	--	--
	2/24/12	1,121.19	38.55	38.78	0.23	1,082.59	--	--	--	--	--	--	--	--	--	--
	3/20/12	1,121.19	38.90	39.00	0.10	1,082.27	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-36 (cont.)																
	4/21/12	1,121.19	--	35.95	0.00	1,085.24	--	--	--	--	--	--	--	--	--	--
	5/21/12	1,121.19	39.10	39.20	0.10	1,082.07	--	--	--	--	--	--	--	--	--	--
	6/25/12	1,121.19	40.90	41.12	0.22	1,080.25	--	--	--	--	--	--	--	--	--	--
	7/20/12	1,121.19	--	38.07	0.00	1,083.12	--	--	--	--	--	--	--	--	--	--
	8/24/12	1,121.19	--	36.38	0.00	1,084.81	--	--	--	--	--	--	--	--	--	--
	11/30/12	1,121.19	--	35.63	0.00	1,085.56	--	--	--	--	--	--	--	--	--	--
	1/18/13	1,121.19	--	35.52	0.00	1,085.67	--	--	--	--	--	--	--	--	--	--
	2/19-20/13	1,121.19	--	36.36	0.00	1,084.83	--	--	--	--	--	--	--	--	--	--
	3/31/13	1,121.19	--	36.32	0.00	1,084.87	--	--	--	--	--	--	--	--	--	--
	4/28/13	1,121.19	37.10	37.12	0.02	1,084.09	--	--	--	--	--	--	--	--	--	--
	5/13/13	1,121.19	37.18	37.23	0.05	1,084.00	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	6/29/13	1,121.19	--	41.11	0.00	1,080.08	--	--	--	--	--	--	--	--	--	--
	7/30/13	1,121.19	--	41.31	0.00	1,079.88	--	--	--	--	--	--	--	--	--	--
	8/12/13	1,121.19	--	36.20	0.00	1,084.99	--	--	--	--	--	--	--	--	--	--
	10/29/13	1,121.19	--	41.39	0.00	1,079.80	--	--	--	--	--	--	--	--	--	--
	11/26/13	1,121.19	35.66	35.68	0.02	1,085.53	--	--	--	--	--	--	--	--	--	--
	12/29/13	1,121.19	--	35.40	0.00	1,085.79	--	--	--	--	--	--	--	--	--	--
	1/27/14	1,121.19	--	35.92	0.00	1,085.27	--	--	--	--	--	--	--	--	--	--
	2/20/14	1,121.19	--	35.22	0.00	1,085.97	--	--	--	--	--	--	--	--	--	--
	3/18/14	1,121.19	--	37.19	0.00	1,084.00	--	--	--	--	--	--	--	--	--	--
	4/15/14	1,121.19	--	35.80	0.00	1,085.39	--	--	--	--	--	--	--	--	--	--
	5/5/14	1,121.19	39.18	39.24	0.06	1,082.00	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL									
	6/18/14	1,121.19	38.32	38.40	0.08	1,082.85	--	--	--	--	--	--	--	--	--	--
	7/15/14	1,121.19	40.88	40.93	0.05	1,080.30	--	--	--	--	--	--	--	--	--	--
	8/5/14	1,121.19	--	37.75	0.00	1,083.44	--	--	--	--	--	--	--	--	--	--
	9/22/14	1,121.19	--	41.39	0.00	1,079.80	--	--	--	--	--	--	--	--	--	--
	10/13/14	1,121.19	--	41.43	0.00	1,079.76	--	--	--	--	--	--	--	--	--	--
	11/13/14	1,121.19	--	41.56	0.00	1,079.63	--	--	--	--	--	--	--	--	--	--
	12/23/14	1,121.19	--	36.12	0.00	1,085.07	--	--	--	--	--	--	--	--	--	--
	1/18-19/15	1,121.19	--	40.56	0.00	1,080.63	--	--	--	--	--	--	--	--	--	--
	2/9/15	1,121.19	--	35.87	0.00	1,085.32	--	--	--	--	--	--	--	--	--	--
	6/19/15	1,121.19	40.39	40.41	0.02	1,080.80	--	--	--	--	--	--	--	--	--	--
	9/21/15	1,121.19	--	34.65	0.00	1,086.54	--	--	--	--	--	--	--	--	--	--
MW-37																
	5/11/04	1,122.30	--	87.16	0.00	1,035.14	--	--	--	--	--	--	--	--	--	--
	6/15/04	1,122.30	--	86.93	0.00	1,035.37	--	--	--	--	--	--	--	--	--	--
	7/13/04	1,122.30	--	84.60	0.00	1,037.70	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	7/13/04 (D)	1,122.30	--	84.60	0.00	1,037.70	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	9/15/04	1,122.30	--	77.34	0.00	1,044.96	--	--	--	--	--	--	--	--	--	--
	10/13/04	1,122.30	--	76.04	0.00	1,046.26	--	<80	<100	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	10/13/04 (D)	1,122.30	--	76.04	0.00	1,046.26	--	<81	<100	<50	<0.5	<0.5	<0.5	<1.5	<2.5	<0.99 ⁸
	11/17/04	1,122.30	--	77.79	0.00	1,044.51	--	--	--	--	--	--	--	--	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
MW-37 (cont.)																
	1/12/05	1,122.30	--	81.23	0.00	1,041.07	--	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	--	<0.99 ⁸
	2/29/05	1,122.30	--	83.26	0.00	1,039.04	--	--	--	--	--	--	--	--	--	--
	3/29/05	1,122.30	--	85.04	0.00	1,037.26	--	--	--	--	--	--	--	--	--	--
	5/3/05	1,122.30	--	85.51	0.00	1,036.79	--	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	6/2/05	1,122.30	--	83.90	0.00	1,038.40	--	--	--	--	--	--	--	--	--	--
	7/14/05	1,122.30	--	78.44	0.00	1,043.86	--	<89	<110	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	9/14/05	1,122.30	--	75.66	0.00	1,046.64	--	--	--	--	--	--	--	--	--	--
	10/27/05	1,122.30	--	76.58	0.00	1,045.72	--	<81	<100	<48	<0.5	<0.5	<0.5	<1.5	<2.5	<0.87 ⁸
	3/14/06	1,122.30	--	86.95	0.00	1,035.35	--	<81	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/06	1,122.30	--	91.68	0.00	1,030.62	--	220	190	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/06 (D)	1,122.30	--	91.68	0.00	1,030.62	--	250	<190	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/2/06	1,122.30	--	76.28	0.00	1,046.02	--	89	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/2/06 (D)	1,122.30	--	76.28	0.00	1,046.02	--	120	>100	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/07	1,122.30	--	81.53	0.00	1,040.77	--	<80	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/07 (D)	1,122.30	--	81.53	0.00	1,040.77	--	<84	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	11/6/07	1,122.30	--	73.50	0.00	1,048.80	--	<85	<110	<50	<0.5	<0.5	<0.5	<1.6	--	--
	11/6/07 (D)	1,122.30	--	73.50	0.00	1,048.80	--	<84	<110	<50	<0.5	<0.5	<0.5	<1.6	--	--
	5/15/08	1,122.30	--	90.89	0.00	1,031.41	--	<77	<97	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/08 (D)	1,122.30	--	90.89	0.00	1,031.41	--	<76	<95	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-19/09	1,122.30	--	91.05	0.00	1,031.25	--	37	<74	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	1,122.30	--	74.29	0.00	1,048.01	--	140	170	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10 (D)	1,122.30	--	--	--	--	--	100	120	<50	<0.5	<0.5	<0.5	<1.5	--	--
	8/23/10	1,122.30	--	66.00	0.00	1,056.30	--	640	640	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	1,122.30	--	88.22	0.00	1,034.08	--	210	2,200	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11 (D)	1,122.30	--	--	--	--	--	34	270	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	1,122.30	--	77.10	0.00	1,045.20	--	<34	<79	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12 (D)	1,122.30	--	--	--	--	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/14/13	1,122.30	--	76.37	0.00	1,045.93	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/14/2013 (D)	1,122.30	--	--	--	--	--	49	100	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/6/14	1,122.30	--	77.71	0.00	1,044.59	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/6/14 (D)	1,122.30	--	--	--	--	--	<30	<70	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/17/15	1,122.30	--	71.45	0.00	1,050.85	--	<28/86	<66/98	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/17/15 (D)	1,122.30	--	71.45	0.00	1,050.85	--	3,900	360	1,200	7.9	<2.0	0.8	18	--	--
	9/21/15	1,122.30	--	66.23	0.00	1,056.07	--	<28/28	<66/66	<50	<0.5	<0.5	<0.5	<1.5	--	--
QA																
	9/23/98	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
	3/20/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
	9/2/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
	5/10/00	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	11/11/00	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
	2/26/01	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
	5/25/01	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--

**TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 96590**

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
QA (cont.)	8/17/01	--	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
	11/9/01	--	--	--	--	--	--	--	--	<100	<0.500	<1.00	<1.00	<1.50	--	--
	1/24/02	--	--	--	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
	5/19/02	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	7/16/02	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	2/24/03	--	--	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	4/1-4/03	--	--	--	--	--	--	--	--	<50	<0.5	1	<0.5	<1.5	--	--
	7/15/03	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	10/23/03	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	1/14/04	--	--	--	--	--	--	--	--	<50	<0.2	<0.2	<0.2	<0.6	--	--
	1/14/04	--	--	--	--	--	--	--	--	<50	<0.2	<0.2	<0.2	<0.6	--	--
	4/13/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	4/14/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	4/14/04	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
	7/13/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	7/14/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	10/13/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	10/14/04	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	1/12/05	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
	5/5/05	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
	7/13/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/14/06	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--
	3/14/06	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--
	10/2/06	--	--	--	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/07	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	11/6/07	--	--	--	--	--	--	--	--	<51	<0.5	<0.5	<0.5	<1.6	--	--
	5/14/08	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/08	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/08	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-19/09	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/18-20/10	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	8/23/10	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/5/11	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/22/12	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/14/13	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/15/13	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	5/6/14	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	6/19/15	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
	9/21/15	--	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--

TABLE 4
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS ¹
CHEVRON SERVICE STATION NO. 96590

232 East Woodin Avenue
Chelan, Washington

Concentrations reported in µg/L

Well ID	Date	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (msl)	TPH-418.1	TPH-DRO ¹¹	TPH-HRO ¹¹	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	T. Lead
Standard Laboratory Reporting Limits:							--	--	--	50	0.5	0.5	0.5	1.5	2.5	--
MTCA Method A Cleanup Levels:							--	500	500	800/1,000	5	1,000	700	1,000	20	15
Current Method ⁴ :							--	NWTPH-Dx + Extended ⁵		NWTPH-Gx	EPA 8021B					USEPA 7421

Abbreviations:

(D) = Duplicate
DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
MTCA = Model Toxics Control Act
MTBE = Methyl Tertiary Butyl Ether

ND = Not Detected
QA = Quality Assurance/Trip Blank
SAIC = SAIC Energy, Environment & Infrastructure, LLC
LNAPL = Light nonaqueous-phase liquid
LNAPLT = LNAPL Thickness
T. Lead = Total Lead
TOC = Top of Casing
TPH = Total Petroleum Hydrocarbons

TPH-DRO = TPH as diesel-range organics
TPH-GRO = TPH as gasoline-range organics
TPH-HRO = TPH as heavy oil-range organics
USEPA = United States Environmental Protection Agency
-- = Not Measured/Not Analyzed
µg/L = Micrograms per liter

Notes:

- 1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
- 2 TOC elevations based on elevation survey performed by SAIC on 7/12/2004. Measurements were made relative to City of Chelan benchmark (east bolt of fire hydrant at SW corner of the intersection of Woodin Avenue and Saunders Street). Benchmark elevation provided by City of Chelan is 1,125.06 feet above mean sea level. For historical data collected prior to 7/12/2004, TOC elevations have been revised to allow evaluation of groundwater elevation changes over the history of the project.
- 3 When LNAPL is present, GWE has been corrected using the following formula: $GWE = [(TOC - DTW) + (LNAPLT \times 0.80)]$.
- 4 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.
- 5 Analyzed with silica-gel clean up.
- 6 Absorbent sock installed in well.
- 7 MTBE by USEPA Method 8260.
- 8 Dissolved lead by USEPA SW-846 7421.
- 9 Unable to measure interface of product and water; therefore, GWE can not be determined. When present, LNALT has been estimated using the following formula: $LNAPLT = \text{Total Well Depth} - \text{DTP}$
- 10 Insufficient water to determine GWE.
- 11 TPH-DRO and TPH-HRO results with multiple values are reported as follows: with silica gel cleanup/without silica gel cleanup.

Table 5
Summary of Natural Attenuation Monitoring Results
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

	Upgradient Wells		Well at Upgradient Edge of Plume		Source Area Wells				Downgradient "Sentinel" Well
	MW-8	MW-28	MW-17	MW-18	MW-6	MW-7	MW-15	MW-21	MW-23
Laboratory Results (µg/L)									
Benzene									
05/18-19/2009	<0.5	<0.5	3.3	--	2.7	--	--	1,700	<0.5
05/18-20/2010	<0.5	<0.5	6.1	--	0.9	--	--	1,300	<0.5
5/5/2011	<0.5	1.7	4.3	--	1.3	--	--	1,600	<0.5
5/22/2012	<0.5	<0.5	2.7	--	--	--	--	1,300	<0.5
5/15/2013	<0.5	7.1	4.2	--	2.0	--	--	1,400	<0.5
5/7/2014	<0.5	9.4	--	--	--	--	--	650	<0.5
6/9/2015	<0.5	<0.5	23.0	<0.5	3.0	15.0	9.0	1,100	<0.5
9/21/2015	<0.5	<0.5	16	0.5	16	12	5.5	1,100	<0.5
TPH-GRO									
05/18-19/2009	<50	110	140	--	490	--	--	1,800	<50
05/18-20/2010	<50	<50	410	--	220	--	--	2,500	<50
5/5/2011	<50	<50	470	--	80	--	--	3,600	<50
5/22/2012	<50	<50	98	--	--	--	--	2,000	<50
5/15/2013	<50	180	120	--	210	--	--	2,000	<50
5/7/2014	<50	3,300	--	--	--	--	--	890	<50
6/9/2015	<50	<50	7,200	<50	340	2,000	1,600	2,400	<50
9/21/2015	<50	<50	5,800	140	1,100	37,000	4,800	3,000	<50
TPH-DRO with silica gel cleanup									
05/18-19/2009	<28	35	63	--	1,100	--	--	720	<29
05/18-20/2010	68	46	810	--	540	--	--	400	43
5/5/2011	45	<32	220	--	310	--	--	800	<30
5/22/2012	<31	<30	<31	--	--	--	--	690	<30
5/15/2013	160	76	<29	--	340	--	--	54	<29
5/7/2014	<29	580	--	--	--	--	--	54	<30
6/9/2015	<28	<29	83	<29	<28	2,300	14,000	55	<30
9/21/2015	<28	68	130	<28	<28	1,700	1,400	120	85

Table 5
Summary of Natural Attenuation Monitoring Results
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

	Upgradient Wells		Well at Upgradient Edge of Plume		Source Area Wells				Downgradient "Sentinel" Well
	MW-8	MW-28	MW-17	MW-18	MW-6	MW-7	MW-15	MW-21	MW-23
Laboratory Results (µg/L)									
TPH-HRO with silica gel cleanup									
05/18-19/2009	<66	<67	<74	--	<80	--	--	650	<67
05/18-20/2010	<69	<69	990	--	<73	--	--	100	<69
5/5/2011	210	<74	250	--	93	--	--	1,700	<71
5/22/2012	<72	<70	<72	--	--	--	--	2,200	<71
5/15/2013	270	170	<67	--	<67	--	--	<67	<67
5/7/2014	<68	<69	--	--	--	--	--	190	<69
6/9/2015	<66	<67	<68	<67	<66	290	<340	<67	<71
9/21/2015	<66	<66	<66	<66	<66	140	93	170	<66
Nitrate									
05/18-19/2009	13,900	9,200	<250	--	<250	--	--	<250	2,400
05/18-20/2010	14,800	15,900	1,300	--	<250	--	--	<250	2,700
5/5/2011	15,100	14,300	620	--	<250	--	--	<250	3,600
5/22/2012	14,700	14,700	3,400	--	--	--	--	<250	3,000
5/15/2013	14,100	15,800	3,200	--	1,500	--	--	<250	3,800
5/7/2014	14,700	2,500	--	--	--	--	--	<250	2,600
6/9/2015	10,200	21,900	12,900	13,700	<250	<250	10,200	590	4,100
9/21/2015	14,600	19,300	<250	13,200	<250	<250	12,200	<250	4,600
Sulfate									
05/18-19/2009	52,900	57,700	32,400	--	247,000	--	--	13,600	13,400
05/18-20/2010	47,300	55,400	21,400	--	69,500	--	--	6,700	14,000
5/5/2011	52,400	62,100	21,200	--	12,500	--	--	3,300	17,100
5/22/2012	48,000	58,800	29,500	--	--	--	--	7,300	15,200
5/15/2013	47,000	59,400	29,200	--	5,000	--	--	3,900	16,200
5/7/2014	41,700	2,400	--	--	--	--	--	9,800	14,200
6/9/2015	38,200	38,700	31,400	31,900	2,400	<1,500	50,600	3,300	19,200
9/21/2015	51,200	41,000	4,600	32,400	10,800	2,500	50,000	<1,500	20,200

Table 5
Summary of Natural Attenuation Monitoring Results
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

	Upgradient Wells		Well at Upgradient Edge of Plume		Source Area Wells				Downgradient "Sentinel" Well
	MW-8	MW-28	MW-17	MW-18	MW-6	MW-7	MW-15	MW-21	MW-23
Laboratory Results (µg/L)									
Ferrous Iron									
05/18-19/2009	<10	32	650	--	14,700	--	--	1,400	47
05/18-20/2010	12	120	830	--	6,500	--	--	40,300	260
5/5/2011	26	190	2,200	--	16,000	--	--	25,400	24
5/22/2012	11	110	94	--	--	--	--	58,600	780
5/15/2013	27	700	300	--	38,300	--	--	51,200	59
5/7/2014	<10	51	--	--	--	--	--	19,300	48
6/9/2015	<10	74	2500	100	320	10,600	34	17,800	3,000
9/21/2015	58	550	1,600	66	2,000	11,600	21	2,500	1,300
Dissolved Manganese									
6/9/2015	19	<0.83	765	1,680	2,040	701	55.8	751	25.3
9/21/2015	174	<0.83	650	978	3,700	1,920	227	945	45
Methane									
6/9/2015	<3.0	<3.0	5.7	<3.0	<3.0	230	<3.0	85	<3.0
9/21/2015	<3.0	<3.0	8.1	<3.0	<3.0	160	<3.0	190	<3.0
Alkalinity									
6/9/2015	231,000	309,000	435,000	700	680,000	540,000	193,000	367,000	115,000
9/21/2015	222,000	288,000	436,000	247,000	665,000	542,000	183,000	349,000	210,000

MTCA = Model Toxics Control Act
 TPH-DRO = TPH as diesel-range organics
 TPH-GRO = TPH as gasoline-range organics

TPH-HRO = TPH as heavy oil-range organics
 -- = Not Measured/Not Analyzed
 µg/L = Micrograms per liter

Notes:

Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.

MTCA Method A Cleanup Levels

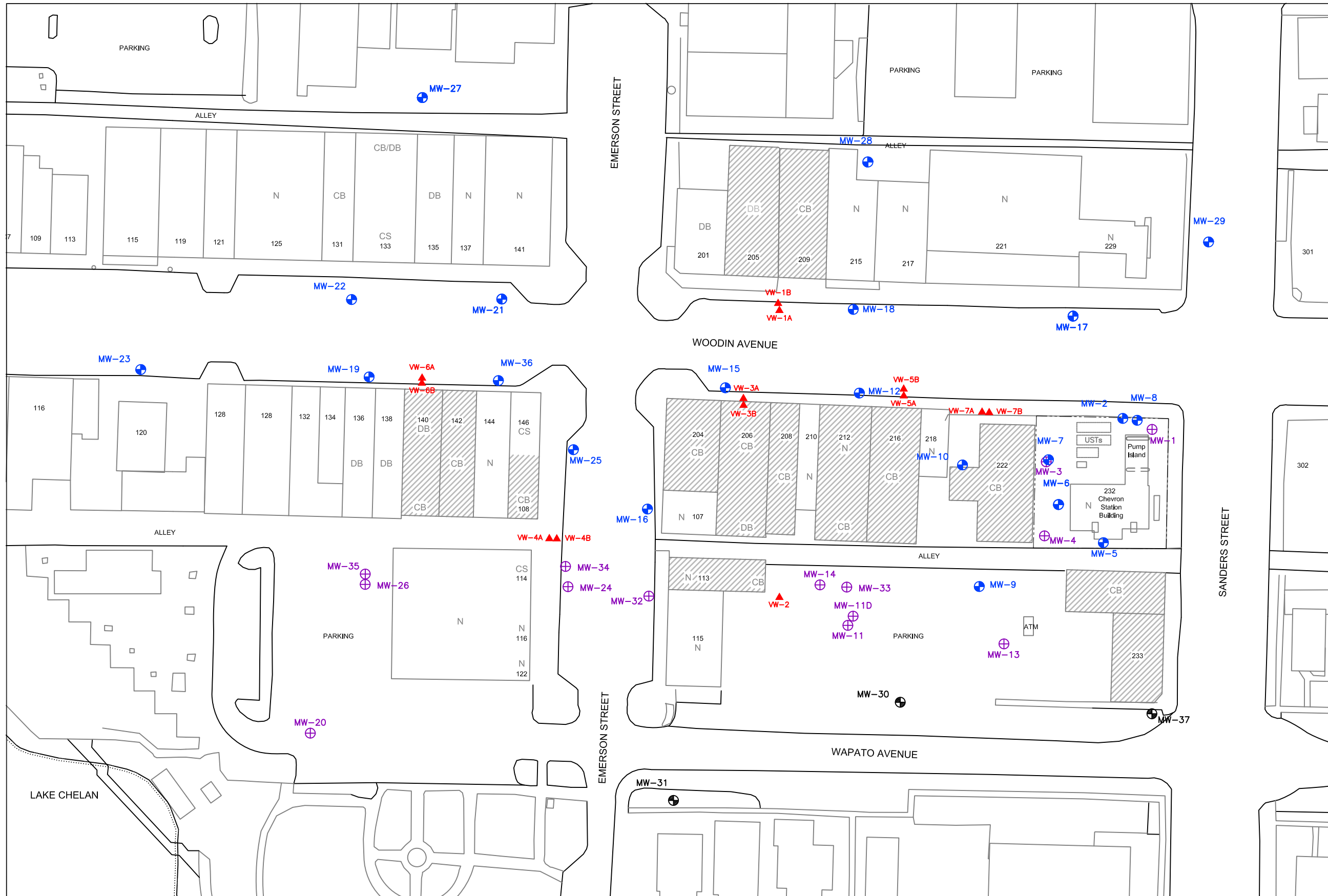
Benzene: 5 µg/L

TPH-DRO: 500 µg/L

TPH-GRO: 800 µg/L

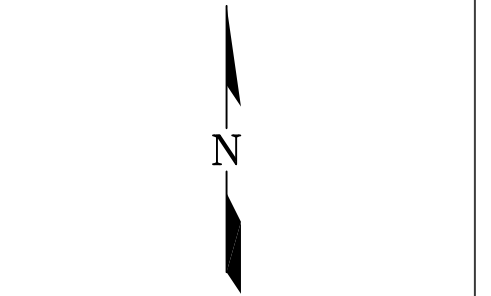
TPH-HRO: 500 µg/L

Figures



LEGEND

- MW-2 PERCHED GROUNDWATER MONITORING WELL
- MW-30 DEEP GROUNDWATER MONITORING WELL
- MW-1 ABANDONED DRY MONITORING WELL
- VW-1A SOIL VAPOR MONITORING WELL
- N NO BASEMENT
- CB CONCRETE-FLOORED BASEMENT
- DB DIRT-FLOORED BASEMENT
- CS CRAWL SPACE (DIRT)
- 204 STREET ADDRESS
- PROPERTIES IDENTIFIED FOR EVALUATION AS TIER 2 ASSESSMENT SAMPLING LOCATIONS



NOTES

Base Map from City of Chelan, 1994

Additional Reference Material:
Aerial Photograph from September 1991
(Washington State Department of Natural Resources)



Chevron Service Station No. 96590
232 East Woodin Avenue
Chelan, Washington

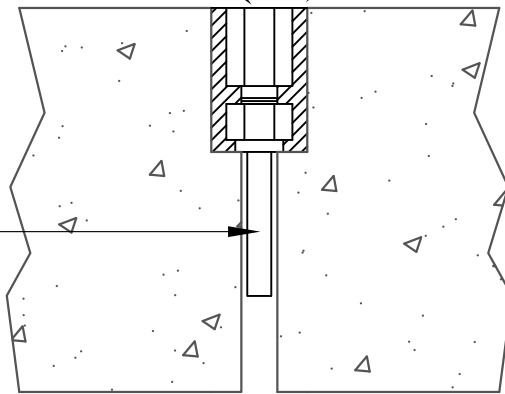
FIGURE 1
Site Map

FILE NAME: 96590_Site Map.dwg	DATE: 04/02/2015
----------------------------------	---------------------

316 STAINLESS STEEL SWAGelok® FITTING
(1/4 INCH TUBE X 1/4 INCH FEMALE
NPT W/ PLUG)

1-INCH DIA. BORING
(1 TO 1.5 INCH TYP. DEPTH) WITH CEMENT
GROUT SEAL

316 STAINLESS STEEL OR
NYLON 1/4-INCH OD TUBING



NOT TO SCALE

5/16-INCH DIA. SLAB PENETRATION

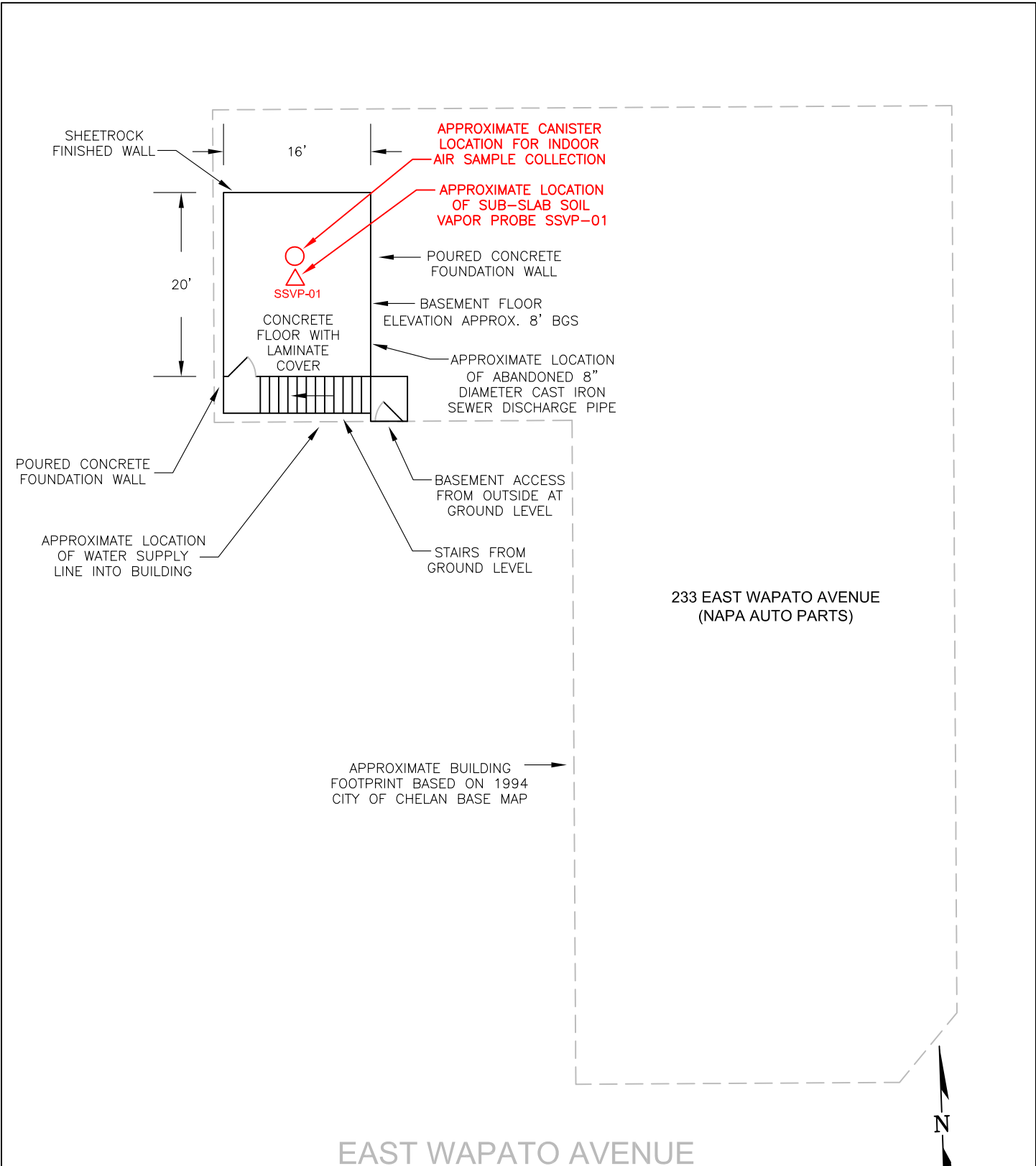


Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

FIGURE 2
Typical Sub-Slab Soil Vapor Probe
Construction

FILE NAME:
96590_VSE.dwg

DATE:
11/16/2015



NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
 BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 4, 2014.



Chevron Service Station No. 9-6590
 232 East Woodin Avenue
 Chelan, Washington

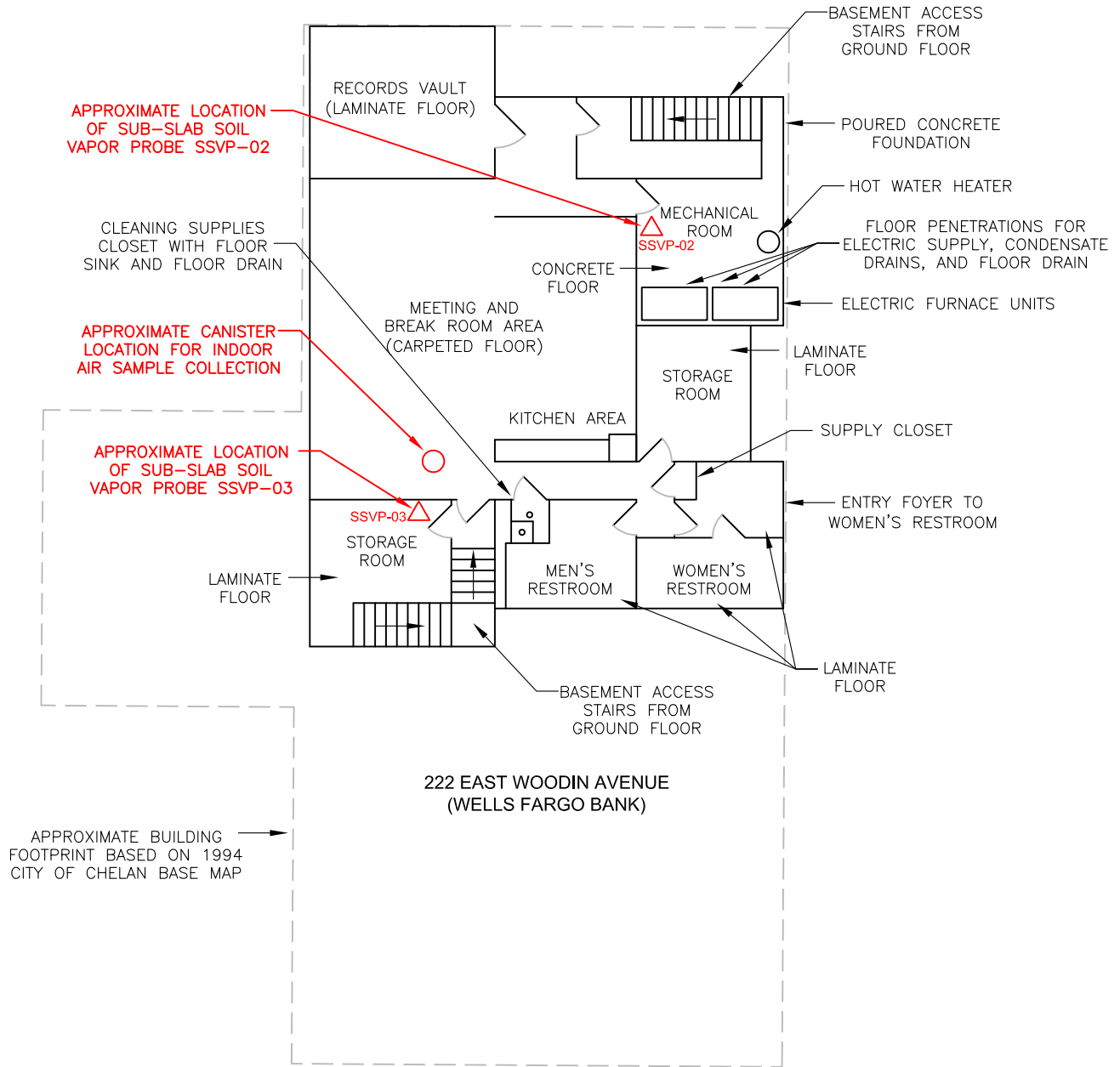
FIGURE 3
 Tier 2 Sampling Locations -
 233 East Wapato Avenue

FILE NAME:
 96590_BLOD_111615.dwg

DATE:
 11/16/2015

EAST WOODIN AVENUE

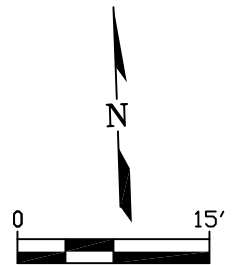
APPROXIMATE CANISTER LOCATION FOR COLLECTION OF OUTDOOR AIR SAMPLE OA-02-062315



NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.

BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 5, 2014.



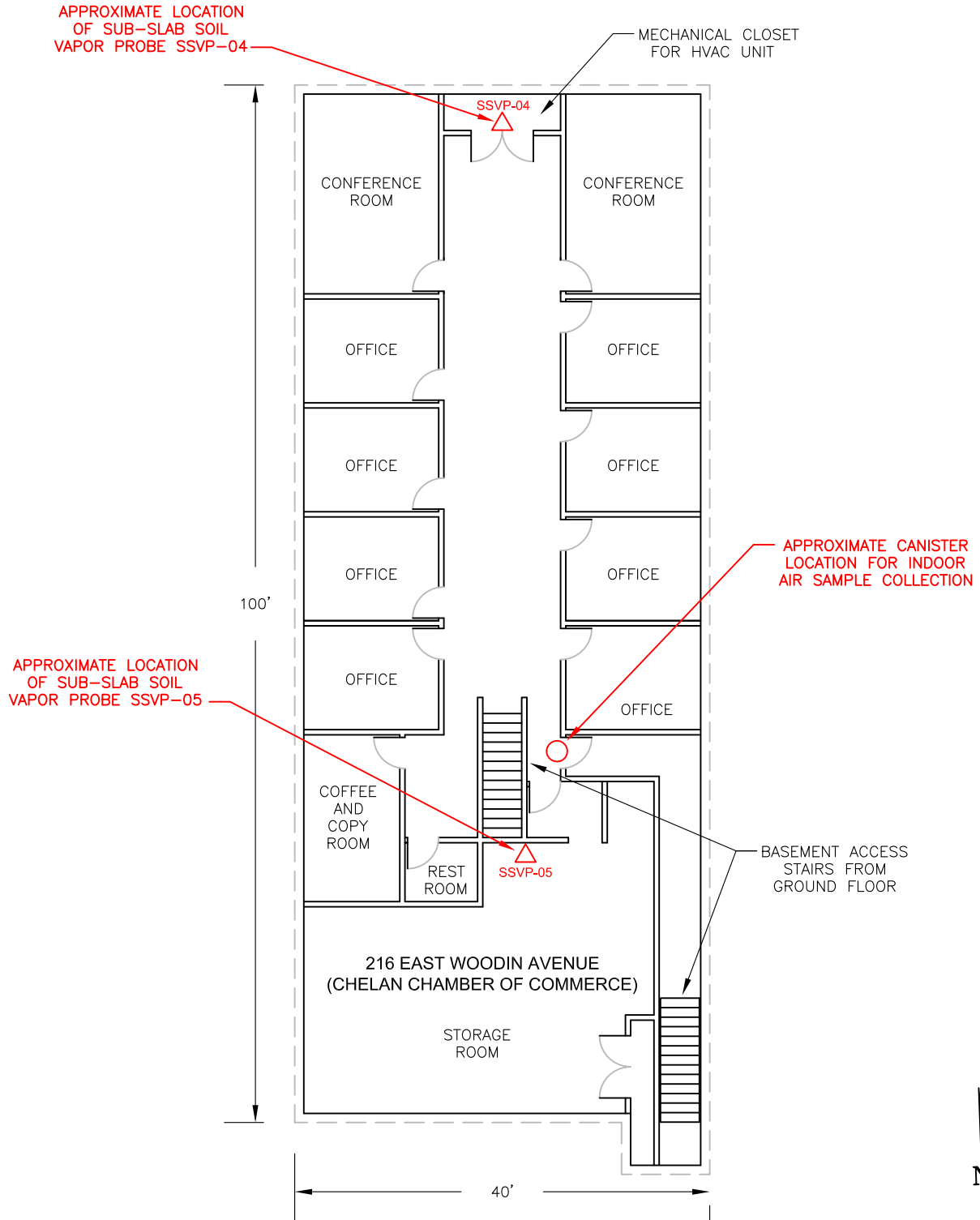
Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

FIGURE 4
Tier 2 Sampling Locations -
222 East Woodin Avenue

FILE NAME:
96590_BLOD_111615.dwg

DATE:
11/16/2015

EAST WOODIN AVENUE



NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.

BASEMENT LAYOUT AND DIMENSIONS BASED ON PROPOSED BASEMENT ALTERATIONS FIGURE, DATED JUNE 2014, PROVIDED BY THE LAKE CHELAN CHAMBER OF COMMERCE, AND PROPERTY VISIT PERFORMED BY LEIDOS ON DECEMBER 3, 2014.

FIGURE 5

Tier 2 Sampling Locations -
216 East Woodin Avenue



Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

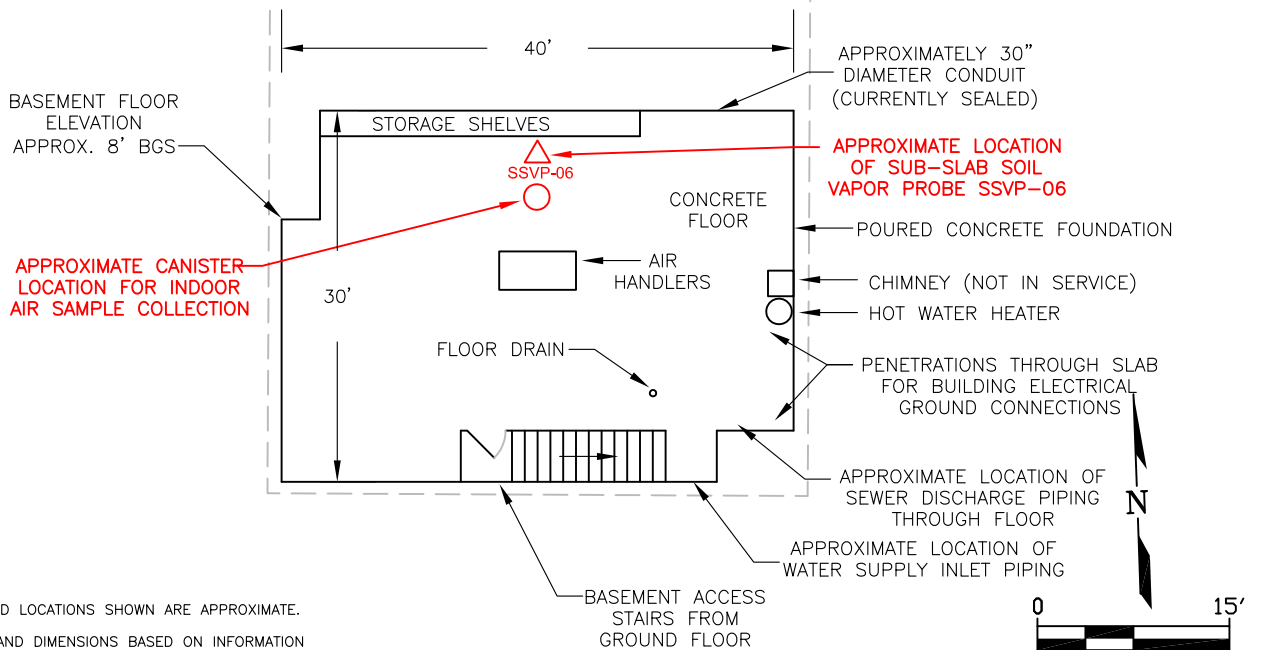
FILE NAME:
96590_BLOD_111615.dwg

DATE:
11/16/2015

EAST WOODIN AVENUE

APPROXIMATE BUILDING
FOOTPRINT BASED ON 1994
CITY OF CHELAN BASE MAP

212 EAST WOODIN AVENUE
(MEMORIES BY THE LAKE / RE/MAX REALTY)



NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 4, 2014.



Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

FIGURE 6
Tier 2 Sampling Locations -
212 East Woodin Avenue

FILE NAME:
96590_BLOD_111615.dwg

DATE:
11/16/2015

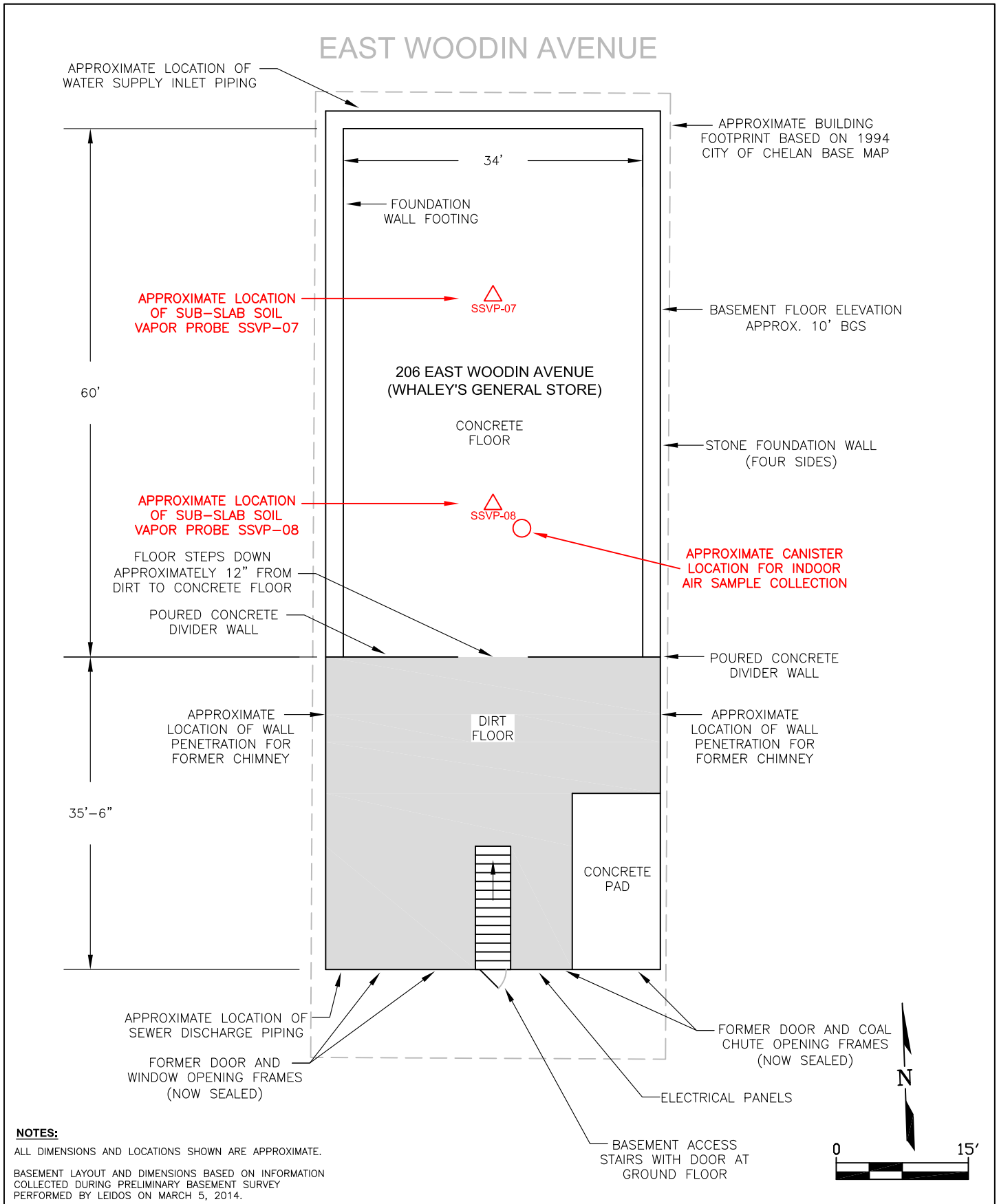


FIGURE 7
Tier 2 Sampling Locations -
206 East Woodin Avenue

FILE NAME: 96590_BLOD_111615.dwg	DATE: 11/16/2015
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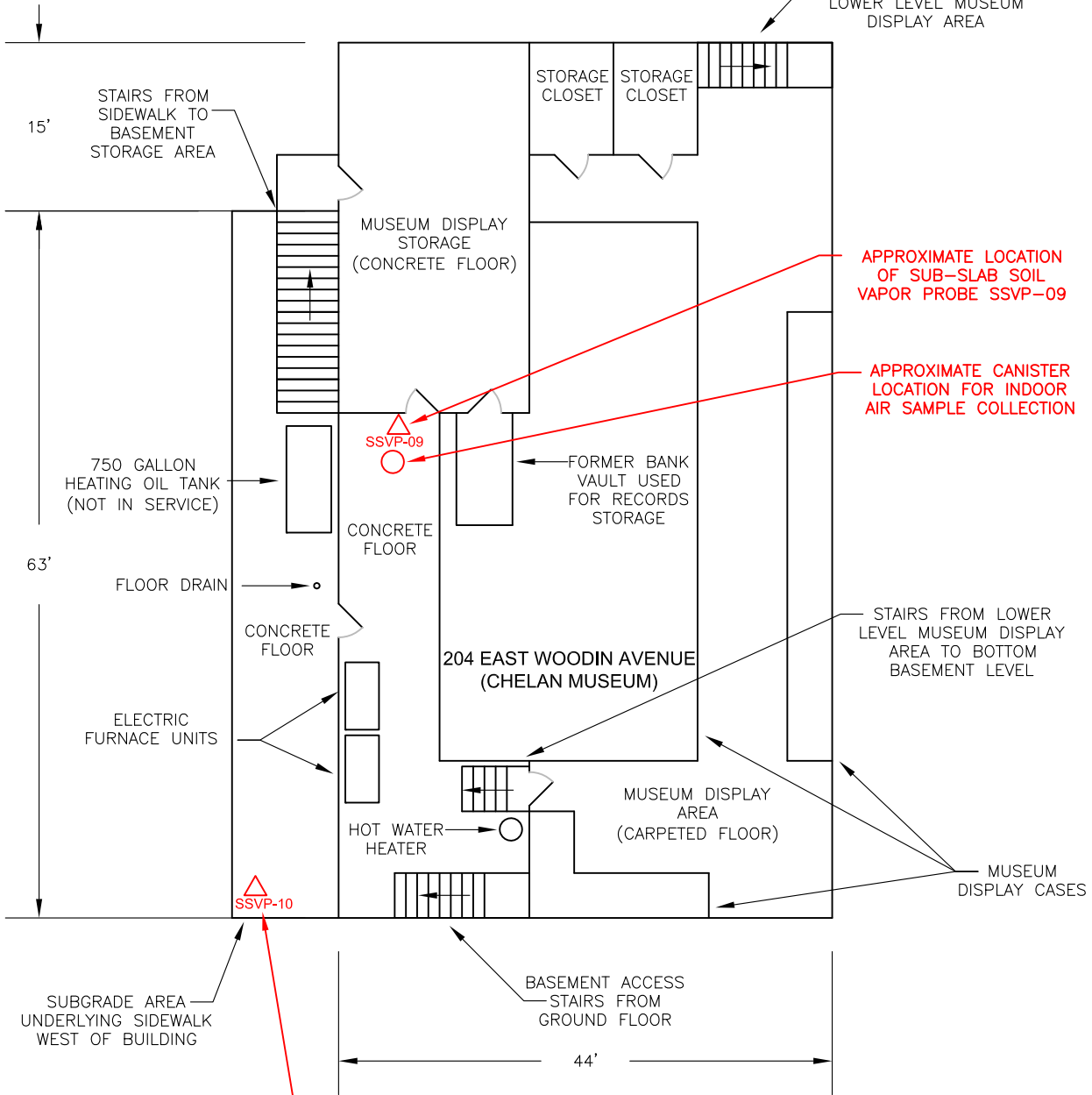


Chevron Service Station No. 9-6590
232 East Woodin Avenue
Chelan, Washington

EAST WOODIN AVENUE

APPROXIMATE CANISTER LOCATION FOR COLLECTION OF OUTDOOR AIR SAMPLE OA-03-062315

ACCESS STAIRS FROM GROUND LEVEL TO LOWER LEVEL MUSEUM DISPLAY AREA



APPROXIMATE LOCATION OF SUB-SLAB SOIL VAPOR PROBE SSVP-09

APPROXIMATE CANISTER LOCATION FOR INDOOR AIR SAMPLE COLLECTION

STAIRS FROM LOWER LEVEL MUSEUM DISPLAY AREA TO BOTTOM BASEMENT LEVEL

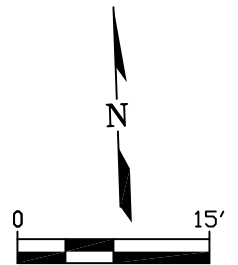
MUSEUM DISPLAY CASES

SSVP-10

APPROXIMATE LOCATION OF SUB-SLAB SOIL VAPOR PROBE SSVP-10

NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
 BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 4, 2014.



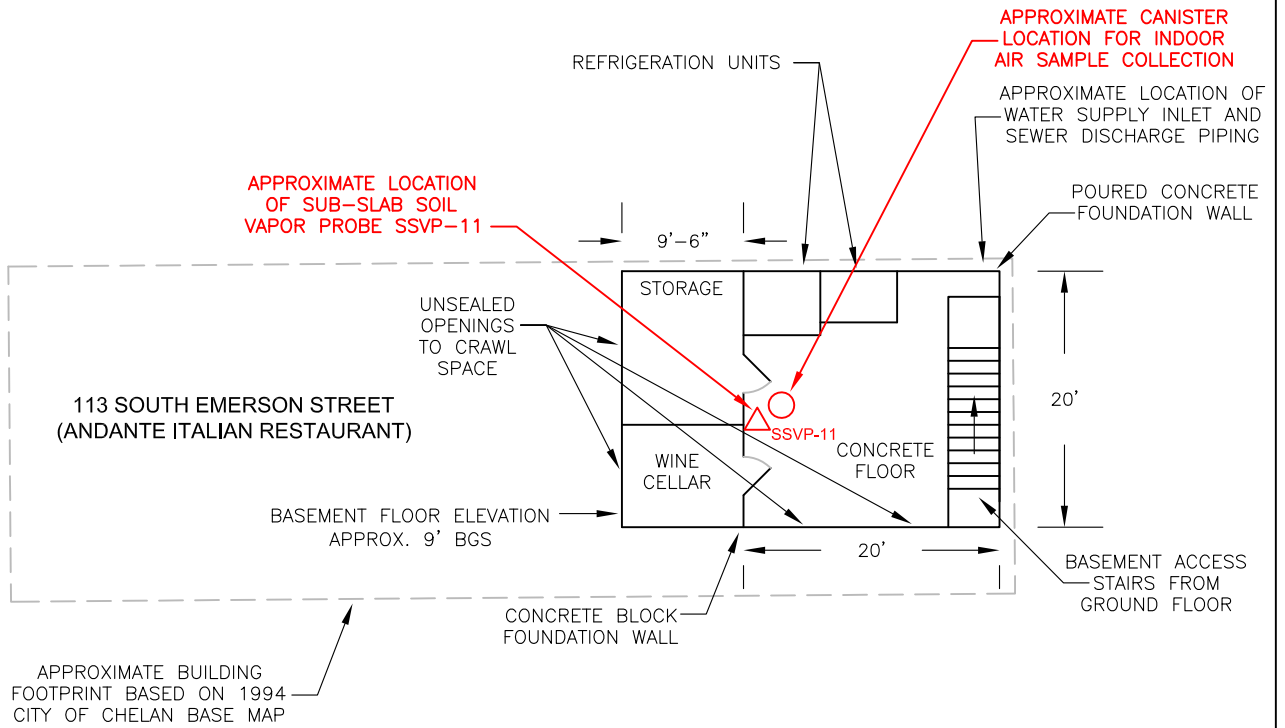
Chevron Service Station No. 9-6590
 232 East Woodin Avenue
 Chelan, Washington

FIGURE 8
 Tier 2 Sampling Locations -
 204 East Woodin Avenue

FILE NAME:
 96590_BLOD_111615.dwg

DATE:
 11/16/2015

SOUTH EMERSON STREET



NOTES:

ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
 BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 5, 2014.

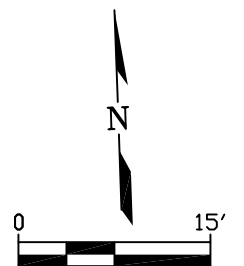


FIGURE 9

Tier 2 Sampling Locations -
 113 South Emerson Street

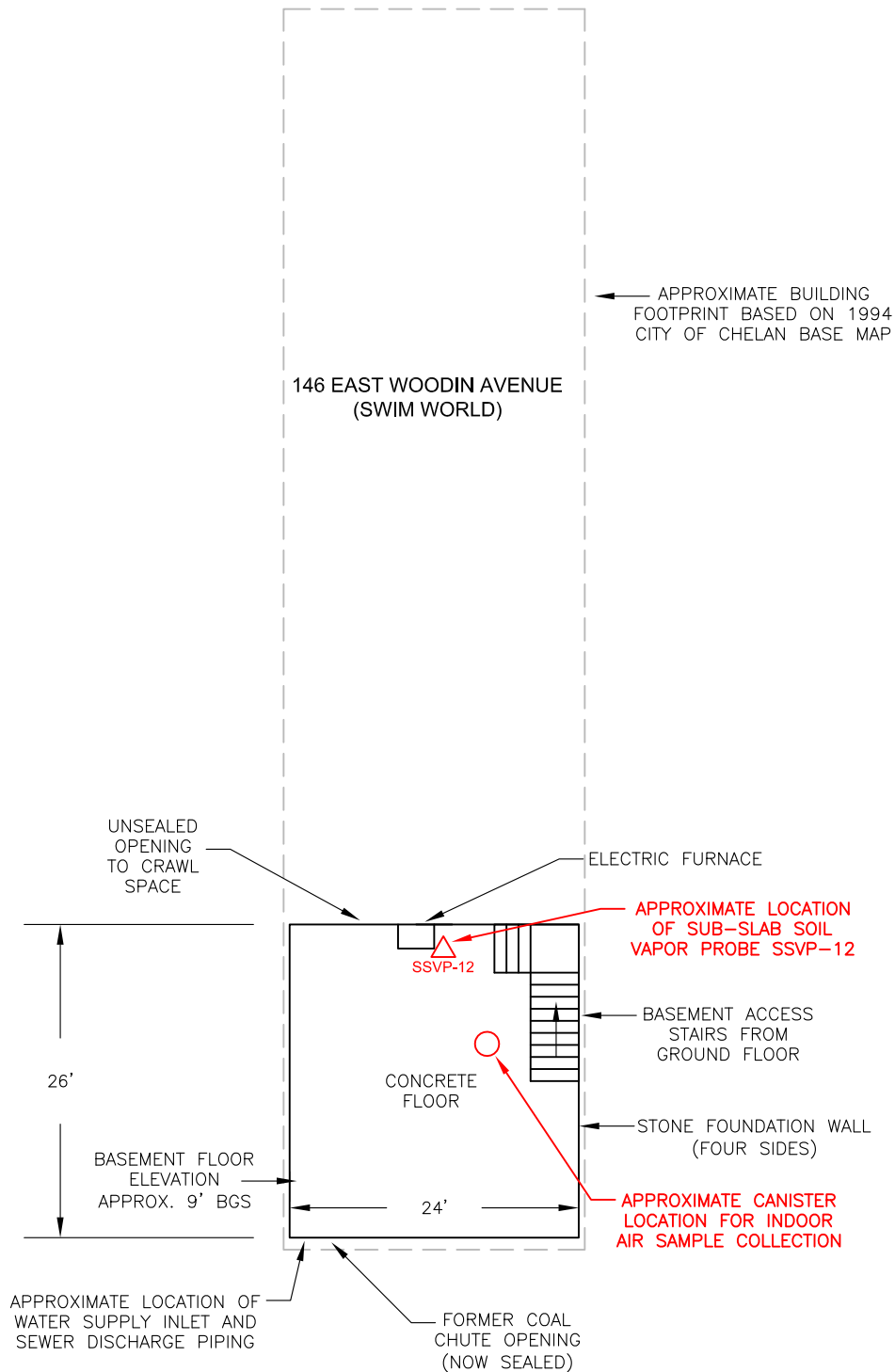
FILE NAME:
 96590_BLOD_111615.dwg

DATE:
 11/16/2015



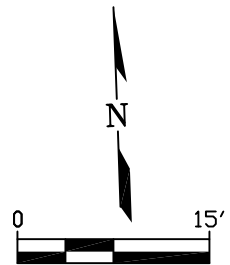
Chevron Service Station No. 9-6590
 232 East Woodin Avenue
 Chelan, Washington


EAST WOODIN AVENUE



NOTES:

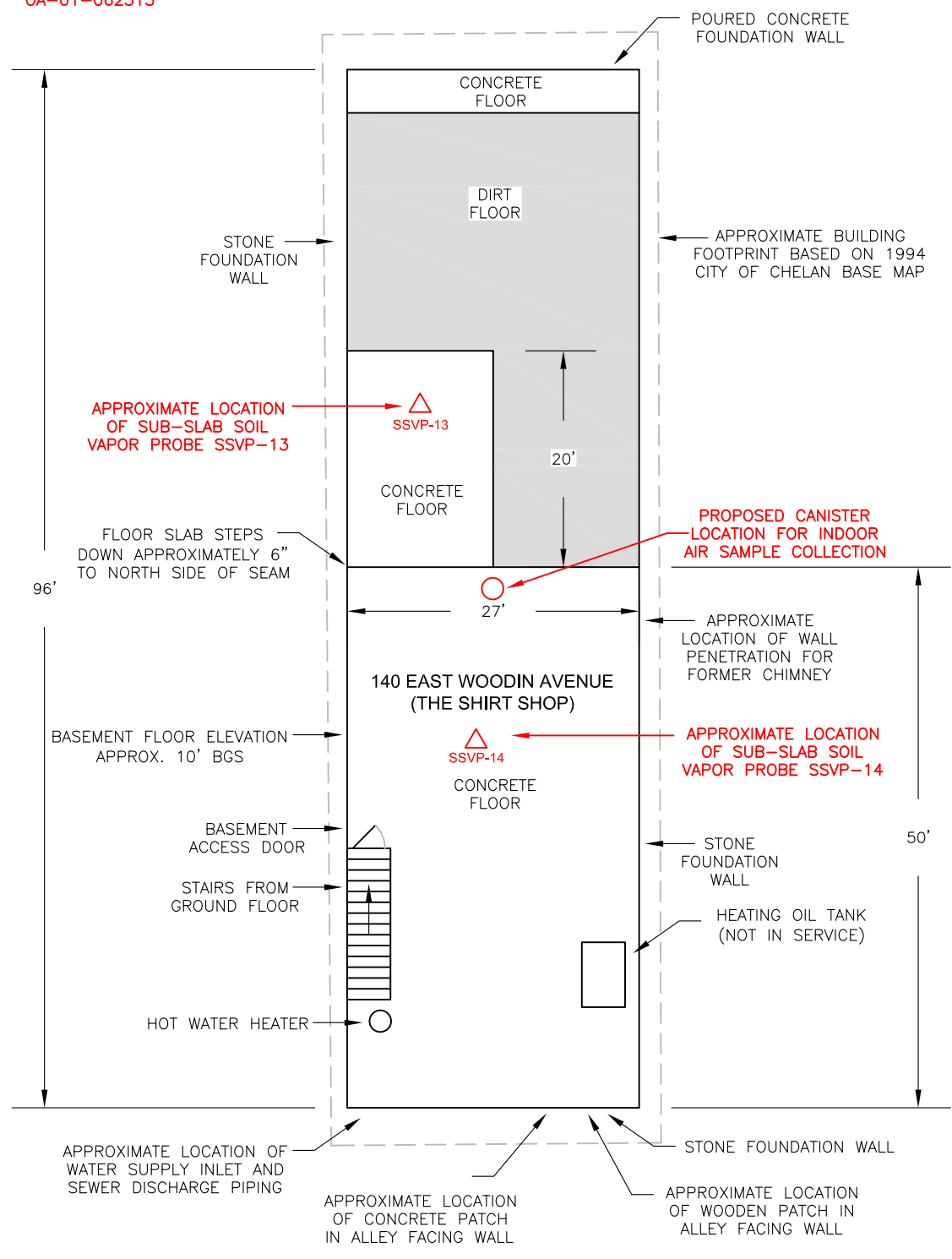
ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
 BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 5, 2014.



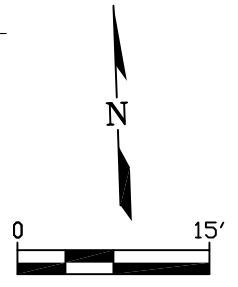
	Chevron Service Station No. 9-6590 232 East Woodin Avenue Chelan, Washington	FIGURE 10 Tier 2 Sampling Locations - 146 East Woodin Avenue	
		FILE NAME: 96590_BLOD_111615.dwg	DATE: 11/16/2015

APPROXIMATE CANISTER LOCATION FOR COLLECTION OF OUTDOOR AIR SAMPLE OA-01-062315

EAST WOODIN AVENUE



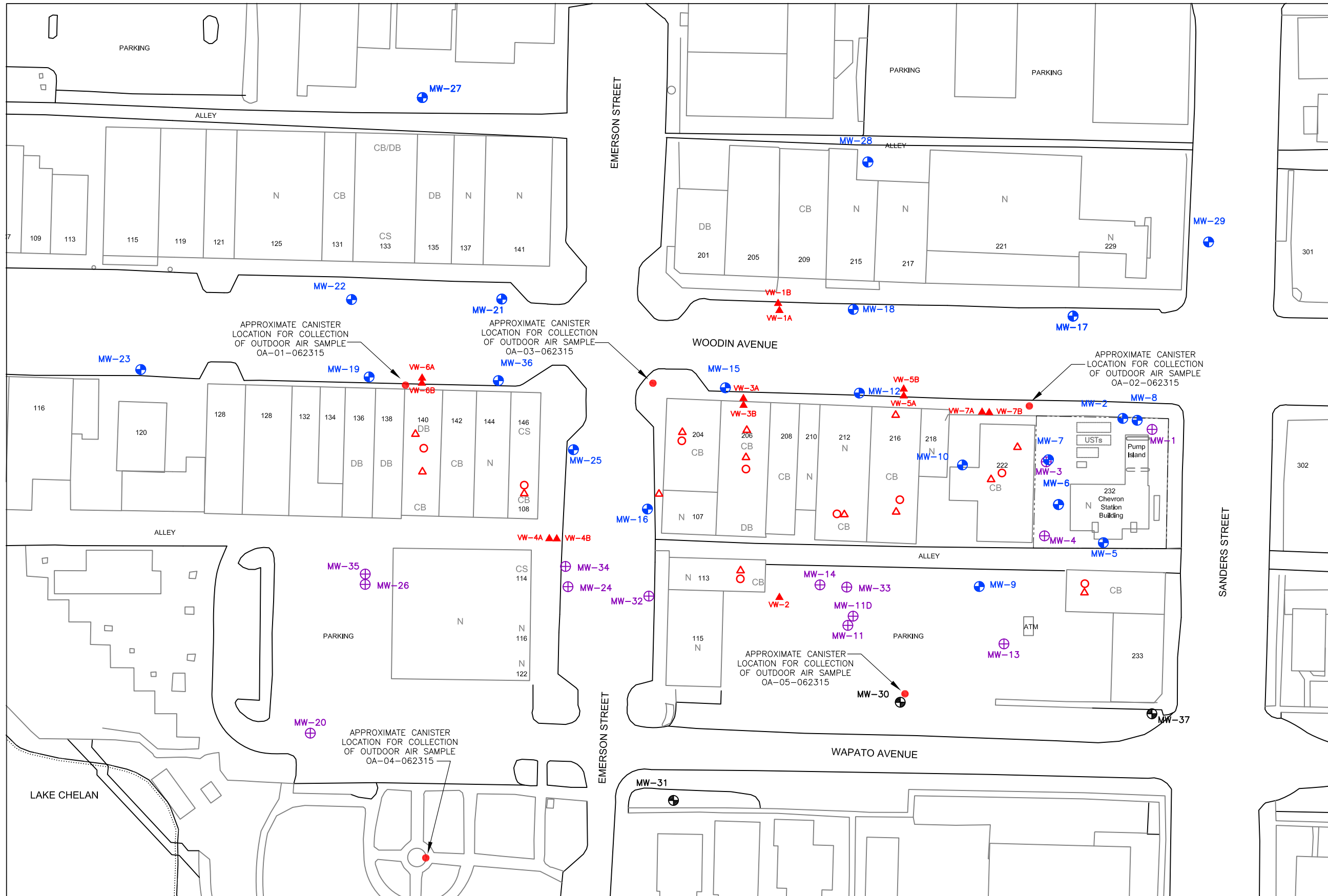
NOTES:
 ALL DIMENSIONS AND LOCATIONS SHOWN ARE APPROXIMATE.
 BASEMENT LAYOUT AND DIMENSIONS BASED ON INFORMATION COLLECTED DURING PRELIMINARY BASEMENT SURVEY PERFORMED BY LEIDOS ON MARCH 5, 2014.



Chevron Service Station No. 9-6590
 232 East Woodin Avenue
 Chelan, Washington

FIGURE 11
 Tier 2 Sampling Locations -
 140 East Woodin Avenue

FILE NAME: 96590_BLOD_111615.dwg	DATE: 11/16/2015
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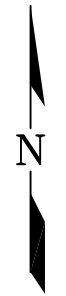
- LEGEND**
- MW-2 PERCHED GROUNDWATER MONITORING WELL
 - MW-30 DEEP GROUNDWATER MONITORING WELL
 - MW-1 ABANDONED DRY MONITORING WELL
 - VW-1A EXISTING SOIL VAPOR MONITORING WELL
 - APPROXIMATE SUB-SLAB SOIL VAPOR PROBE LOCATION
 - APPROXIMATE INDOOR AIR SAMPLING LOCATION
 - APPROXIMATE OUTDOOR AIR SAMPLING LOCATION
 - N NO BASEMENT
 - CB CONCRETE-FLOORED BASEMENT
 - DB DIRT-FLOORED BASEMENT
 - CS CRAWL SPACE (DIRT)
 - 204 STREET ADDRESS

NOTES

Base Map from City of Chelan, 1994

Additional Reference Material:
Aerial Photograph from September 1991
(Washington State Department of Natural Resources)

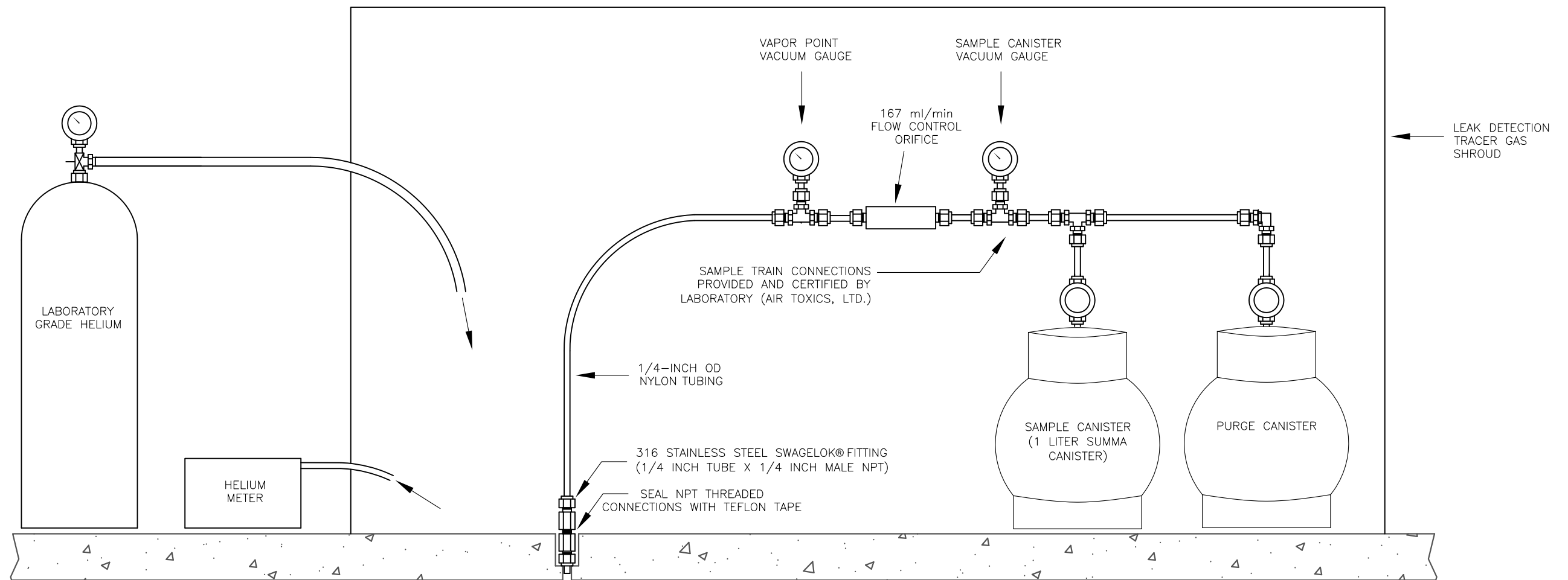
0 80' 160'



Chevron Service Station No. 96590
232 East Woodin Avenue
Chelan, Washington

FIGURE 12
Tier 2 Sampling Locations - Site

FILE NAME: 96590_Site Map.dwg DATE: 11/16/2015



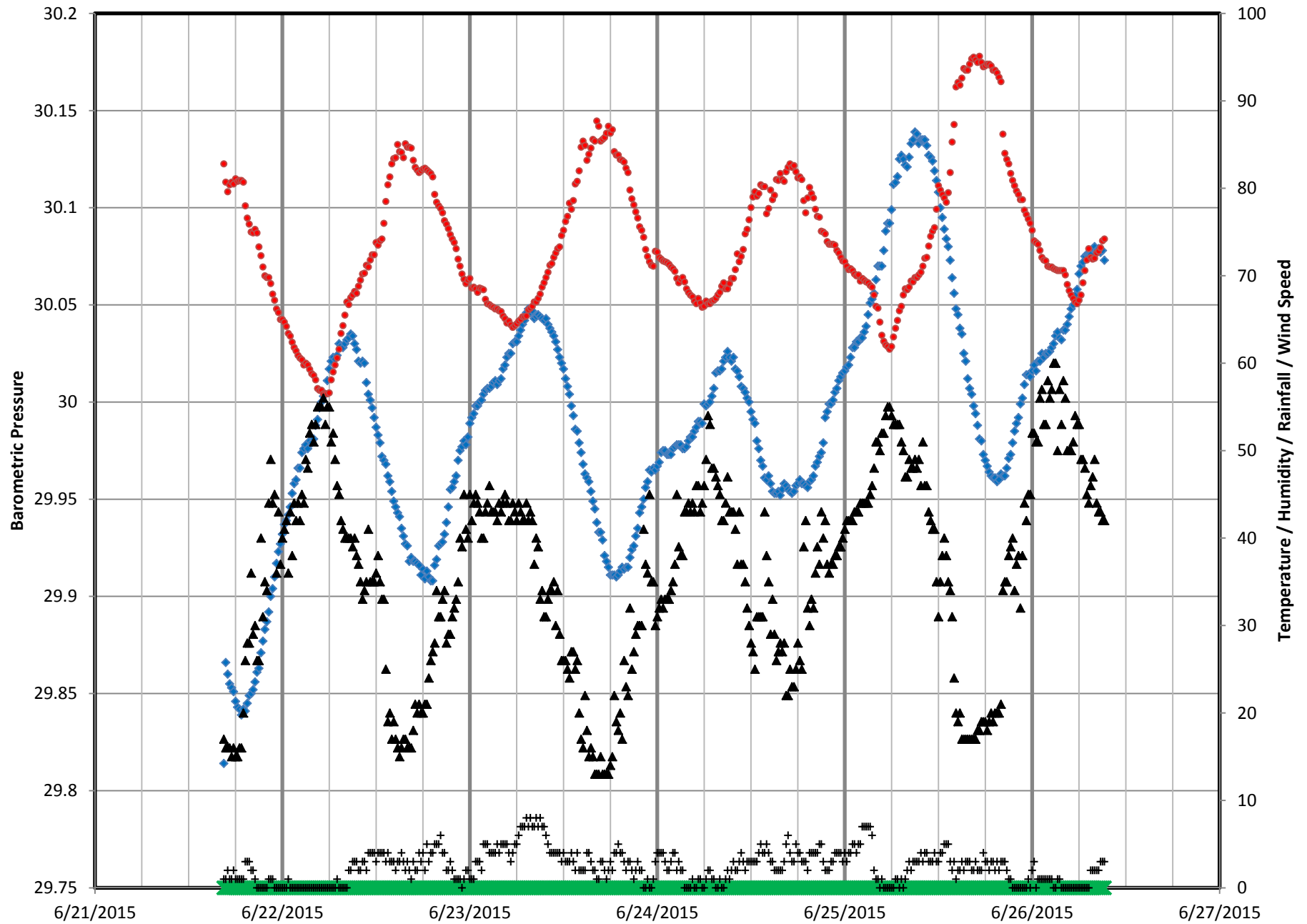
NOT TO SCALE

Figure 14: Tier 2 Assessment Weather Station Data Plot - June 2015

Chevron Service Station No. 9-6590

232 East Woodin Avenue

Chelan, Washington



◆ Barometric Pressure (In. Hg) ● Temperature (Degrees F) ▲ Humidity (%) ✕ Rainfall (In.) + Wind Speed (MPH)

Figure 15: LNAPL Recovery Data for MW-12 Baildown Test - July 16, 2015

Chevron Service Station No. 9-6590

232 East Woodin Avenue

Chelan, Washington

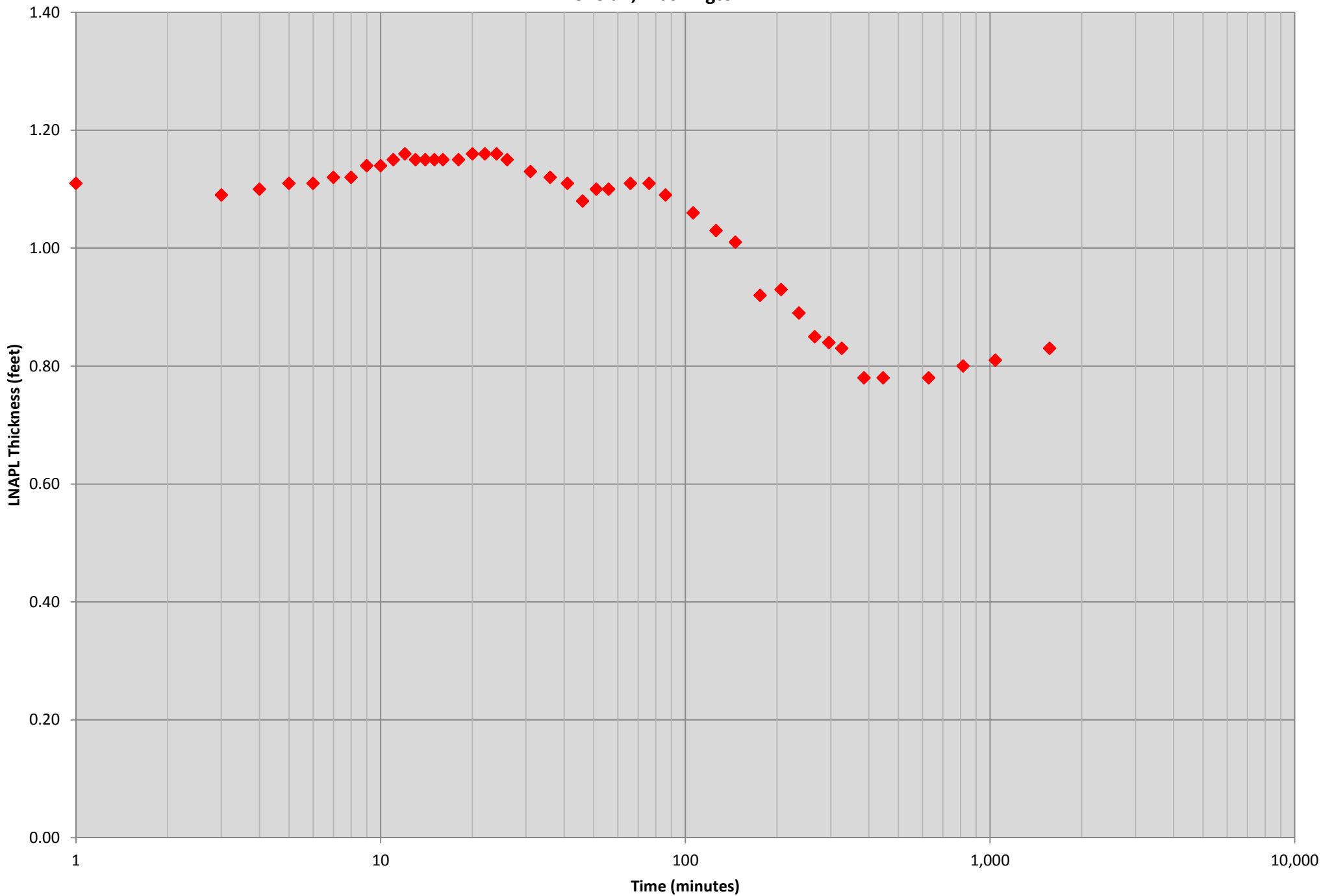


Figure 16: LNAPL Recovery Data for MW-16 Baildown Test - July 16, 2015

Chevron Service Station No. 9-6590

232 East Woodin Avenue

Chelan, Washington

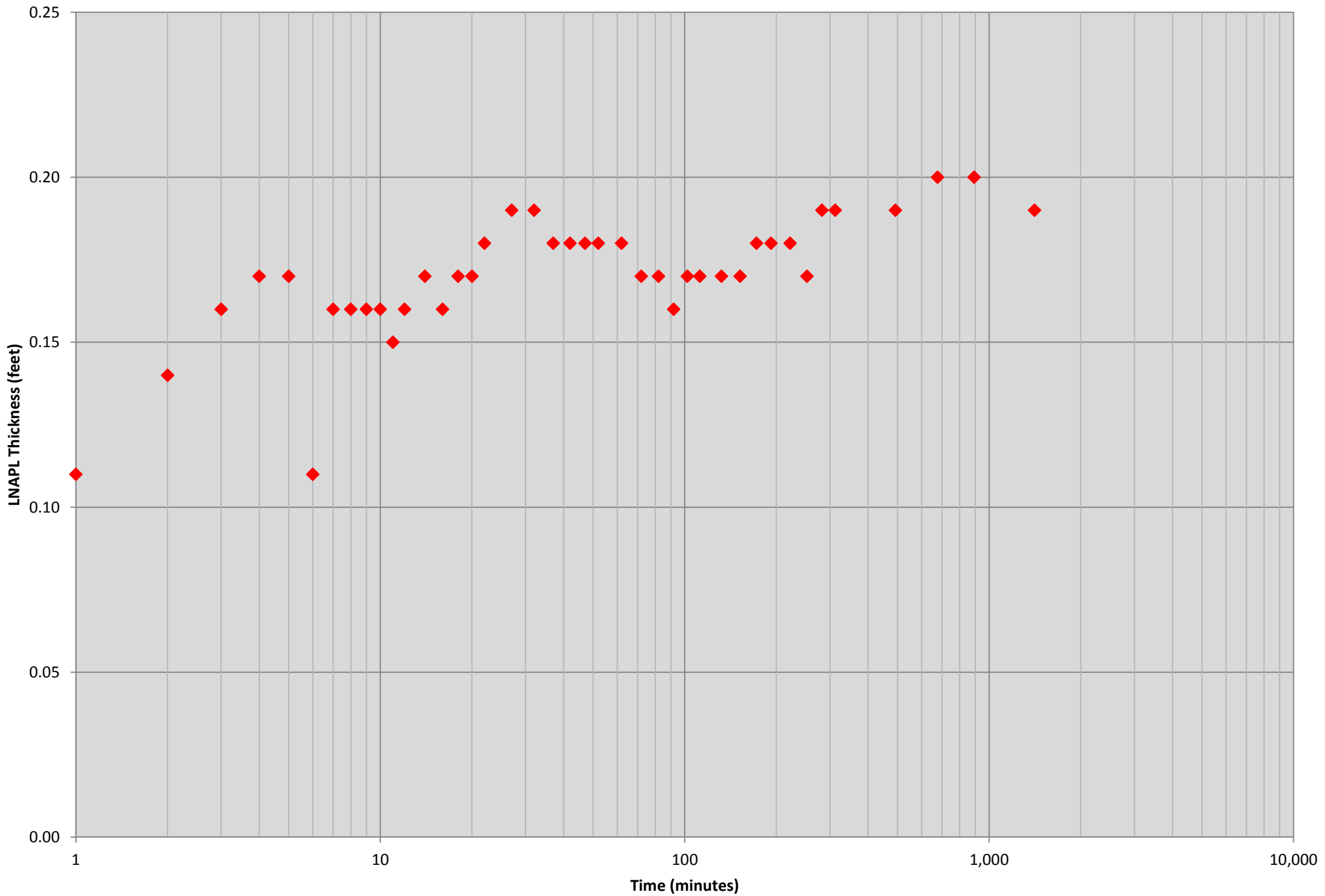
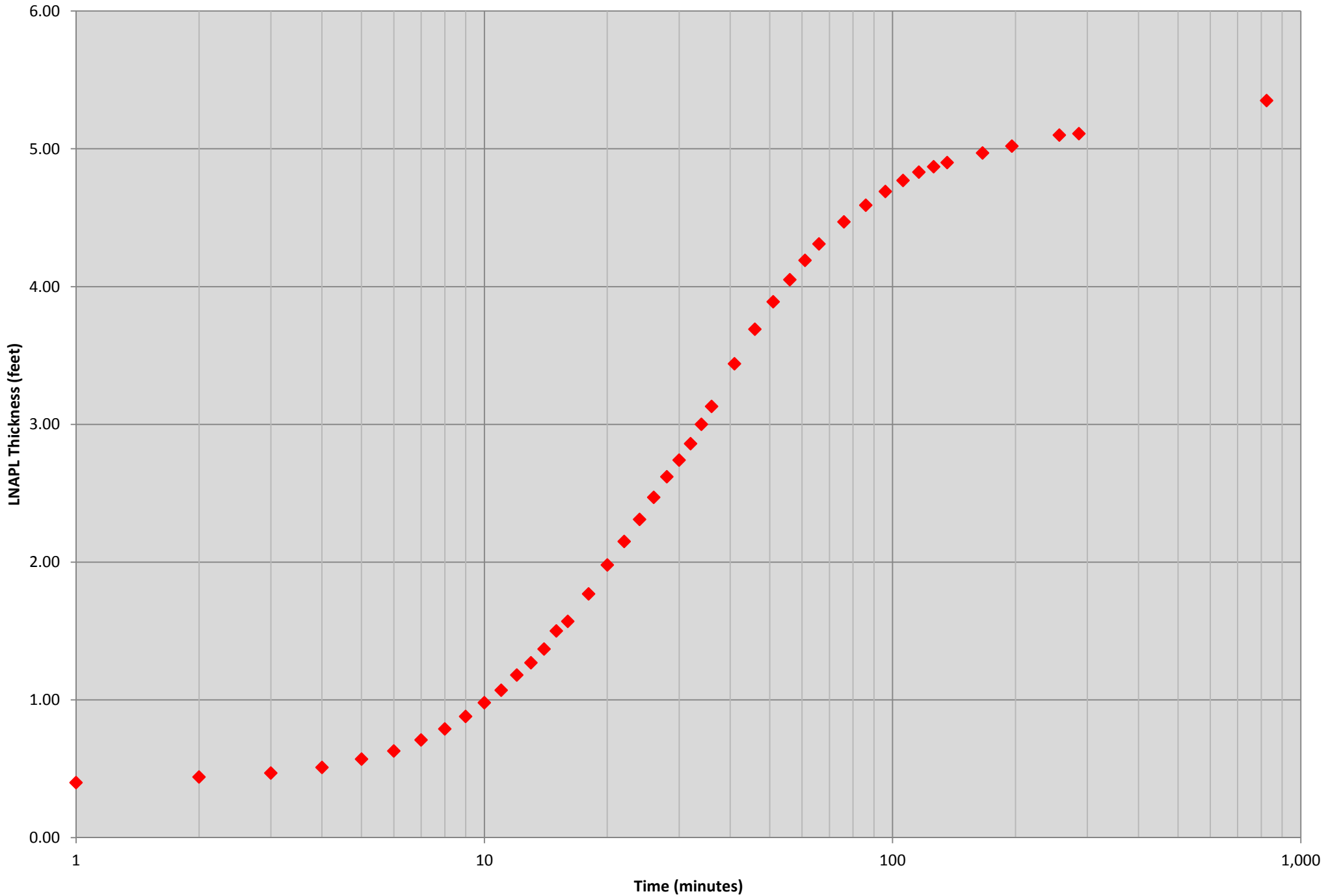


Figure 17: LNAPL Recovery Data for MW-10 Baildown Test - July 16, 2015

Chevron Service Station No. 9-6590

232 East Woodin Avenue

Chelan, Washington

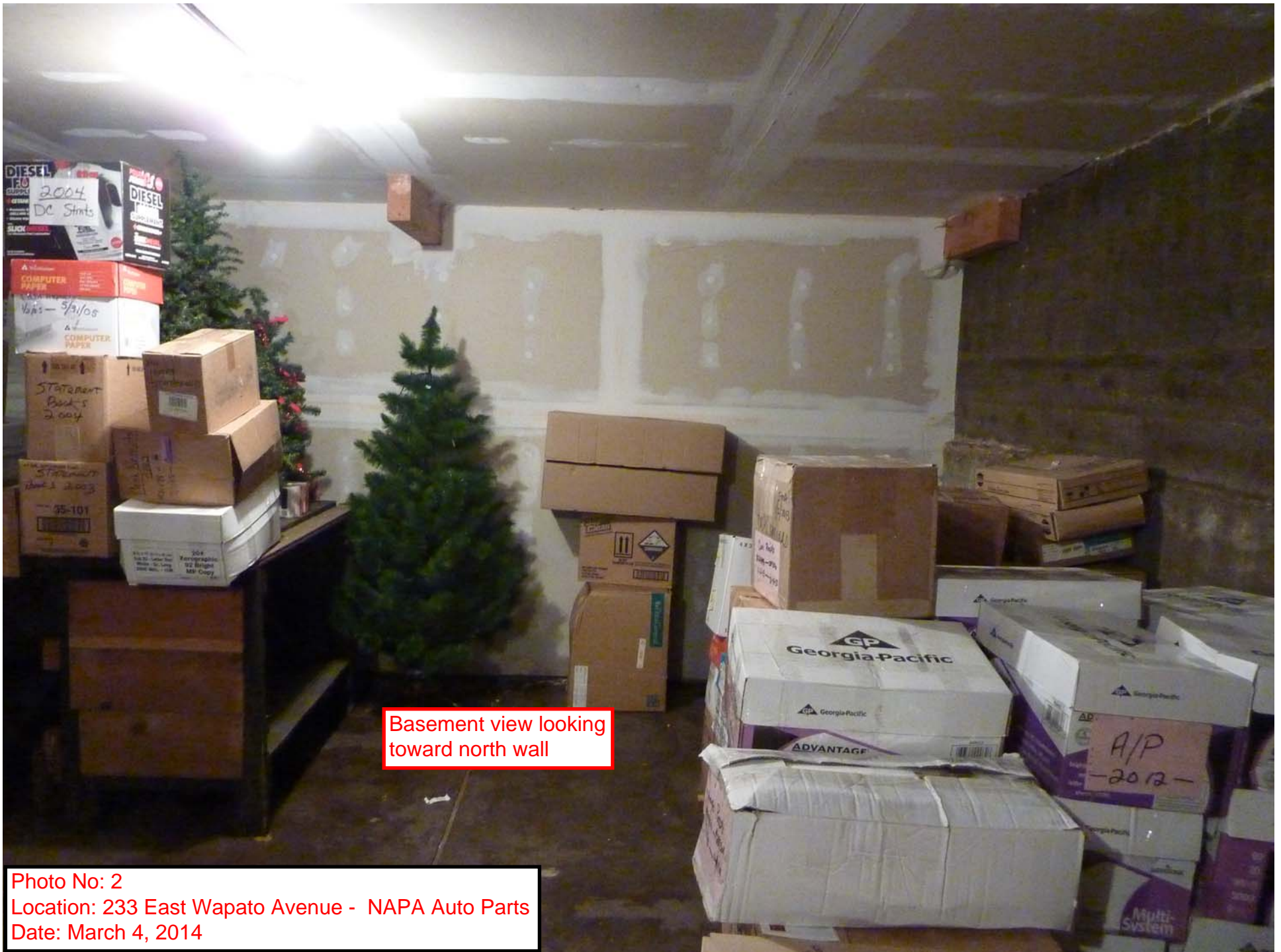


**Appendix A:
Photographs**



Ground level
access door to
basement stairwell

Photo No: 1
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: March 4, 2014



Basement view looking toward north wall

Photo No: 2
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: March 4, 2014



Basement view looking toward northwest corner

Photo No: 3
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: March 4, 2014



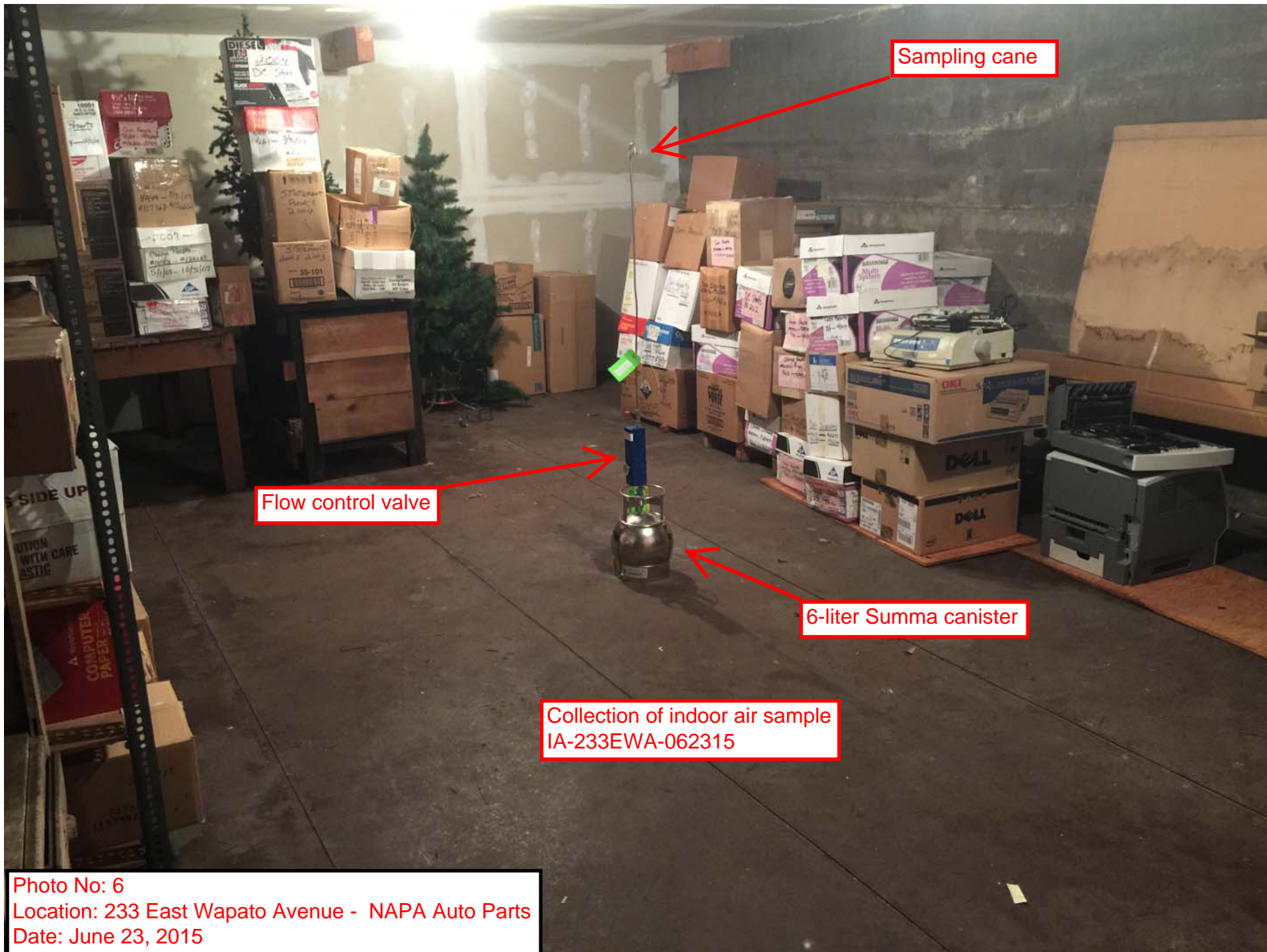
Basement view looking toward entrance at southwest corner

Photo No: 4
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: March 4, 2014

A photograph of a basement room with a weathered, grey concrete wall. A circular vent is visible in the upper center of the wall. In the foreground, a wooden desk holds two computer monitors, a keyboard, and a mouse. A third monitor sits on a wooden stool to the right. A white door is partially open on the right side of the frame. A red-bordered text box in the upper left corner contains the text "Basement view looking toward eastern wall".

Basement view looking toward
eastern wall

Photo No: 5
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: March 4, 2014



Sampling cane

Flow control valve

6-liter Summa canister

Collection of indoor air sample
IA-233EWA-062315

Photo No: 6
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: June 23, 2015



Laboratory grade helium

Frame for construction of helium shroud

6-liter Summa canister used for purging.

1-liter Summa canister for sample collection

Preparation for collection of sub-slab soil vapor sample SSVP-01-062415

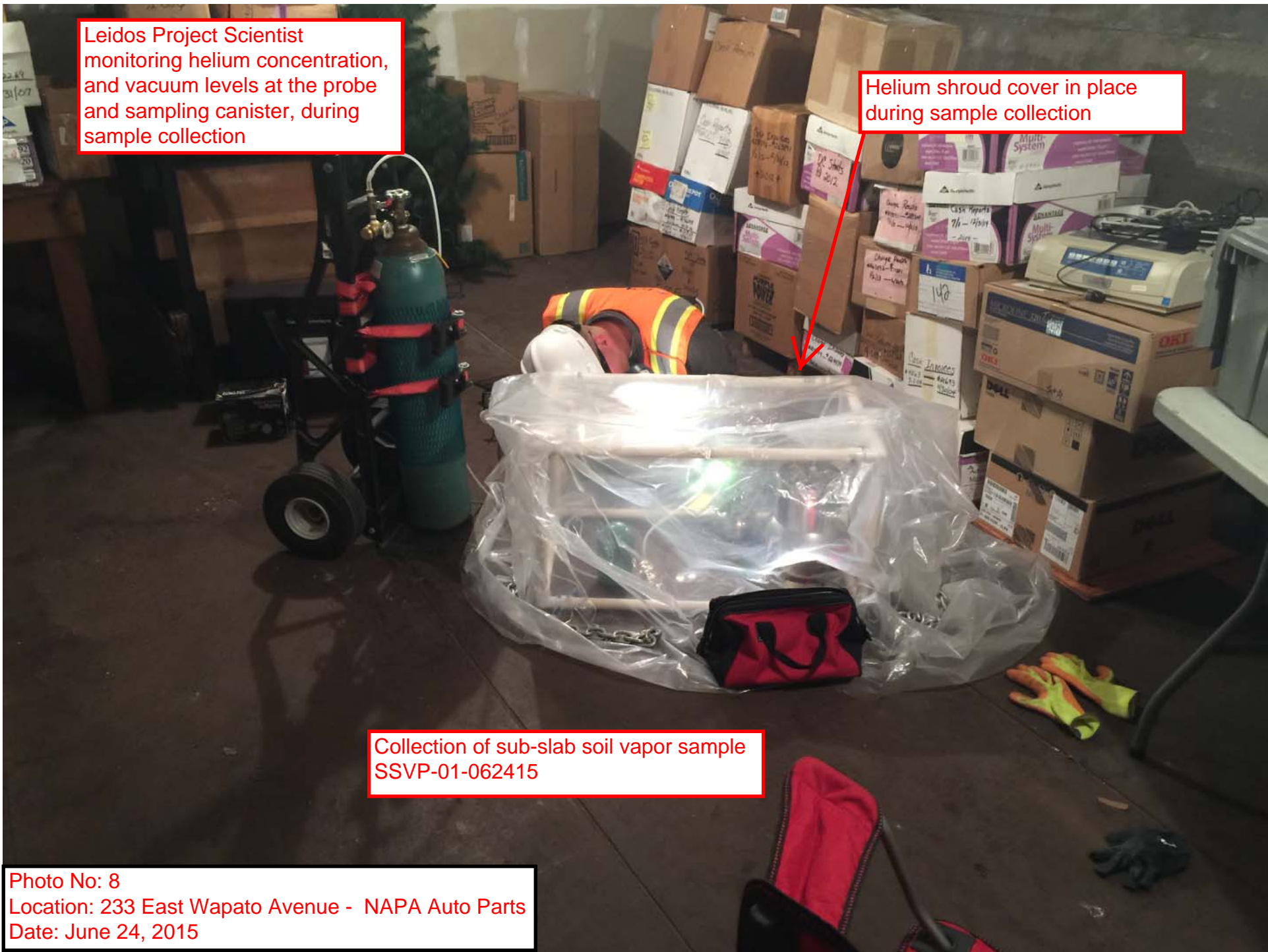
Photo No: 7
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: June 24, 2015

Leidos Project Scientist monitoring helium concentration, and vacuum levels at the probe and sampling canister, during sample collection

Helium shroud cover in place during sample collection

Collection of sub-slab soil vapor sample SSVP-01-062415

Photo No: 8
Location: 233 East Wapato Avenue - NAPA Auto Parts
Date: June 24, 2015





Looking south toward rear
basement access stairs

Storage room

Photo No: 9
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Storage room located in southwest corner of basement

Photo No: 10
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Cleaning supplies closet with floor sink and floor drain

Photo No: 11
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Ventilation system grate

Looking north into meeting and break room area

Photo No: 12
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Kitchen area

Photo No: 13
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Mechanical room

Photo No: 14
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



Photo No: 15

Location: 222 East Woodin Avenue - Wells Fargo Bank

Date: March 5, 2014



Looking down from main floor toward
basement access stairs near E.
Woodin Ave. building entrance

Photo No: 16
Location: 222 East Woodin Avenue - Wells Fargo Bank
Date: March 5, 2014



SSVP-04 located immediately inside door of mechanical closet

Looking north in central hall of basement office and conference room area

Photo No: 17
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015



Door to storage room in southern portion of basement

Stairwell open to main floor

Looking south in central hall of basement office and conference room area

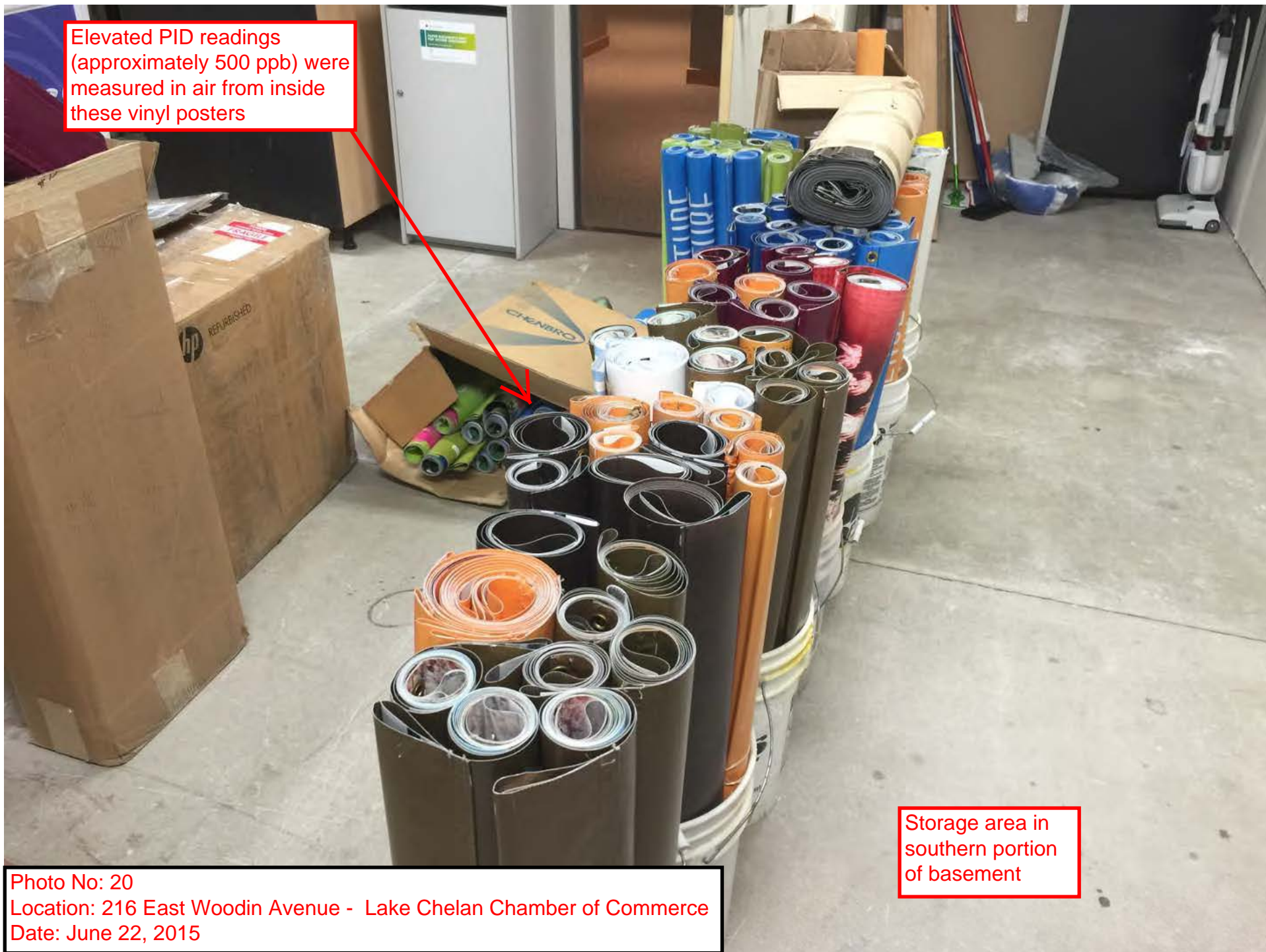
Photo No: 18
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015



Kitchen area

Photo No: 19
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015

Elevated PID readings
(approximately 500 ppb) were
measured in air from inside
these vinyl posters



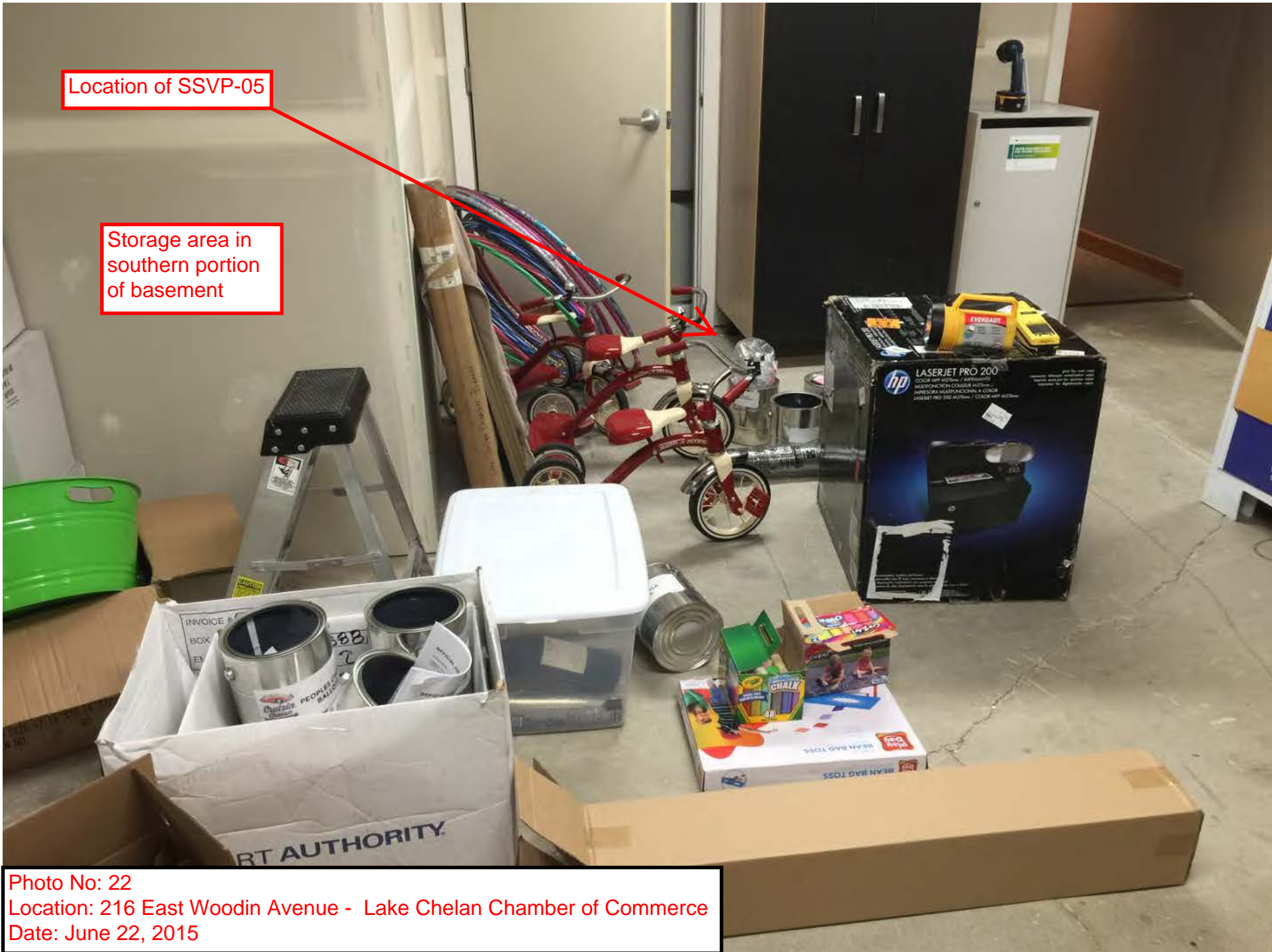
Storage area in
southern portion
of basement

Photo No: 20
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015

Storage area in
southern portion
of basement



Photo No: 21
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015



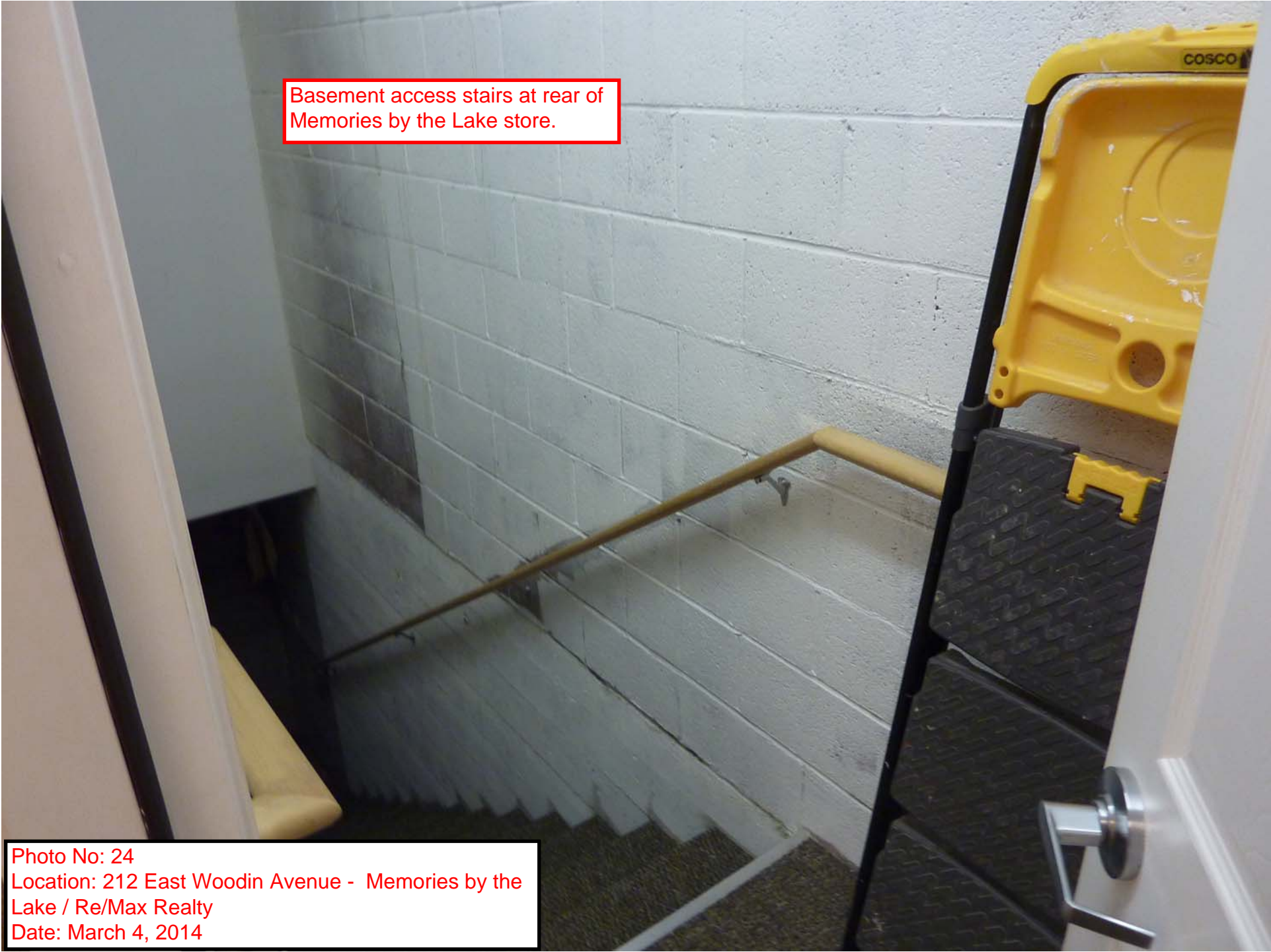
Location of SSVP-05

Storage area in southern portion of basement

Photo No: 22
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 22, 2015



Photo No: 23
Location: 216 East Woodin Avenue - Lake Chelan Chamber of Commerce
Date: June 23, 2015



Basement access stairs at rear of
Memories by the Lake store.

Photo No: 24
Location: 212 East Woodin Avenue - Memories by the
Lake / Re/Max Realty
Date: March 4, 2014

Looking west from northeast corner of basement



Photo No: 25
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: March 4, 2014



Photo No: 26
Location: 212 East Woodin Avenue - Memories by the
Lake / Re/Max Realty
Date: March 4, 2014

Sealed entrance to tunnel /
utility conduit in north
basement wall

A photograph of a basement interior. The room has white walls and a concrete floor. In the foreground, there is a desk with a computer monitor, keyboard, and various boxes. A white trash can is next to the desk. A long white pipe runs across the floor towards a drain. In the background, there is a black office chair, a metal shelving unit, and a small table. A doorway on the right leads to another area with a large red cabinet and a silver boiler.

Looking west from southeast corner of basement

Photo No: 27
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 22, 2015



Photo No: 28
Location: 212 East Woodin Avenue - Memories by the
Lake / Re/Max Realty
Date: June 22, 2015

Looking east from southwest
corner of basement

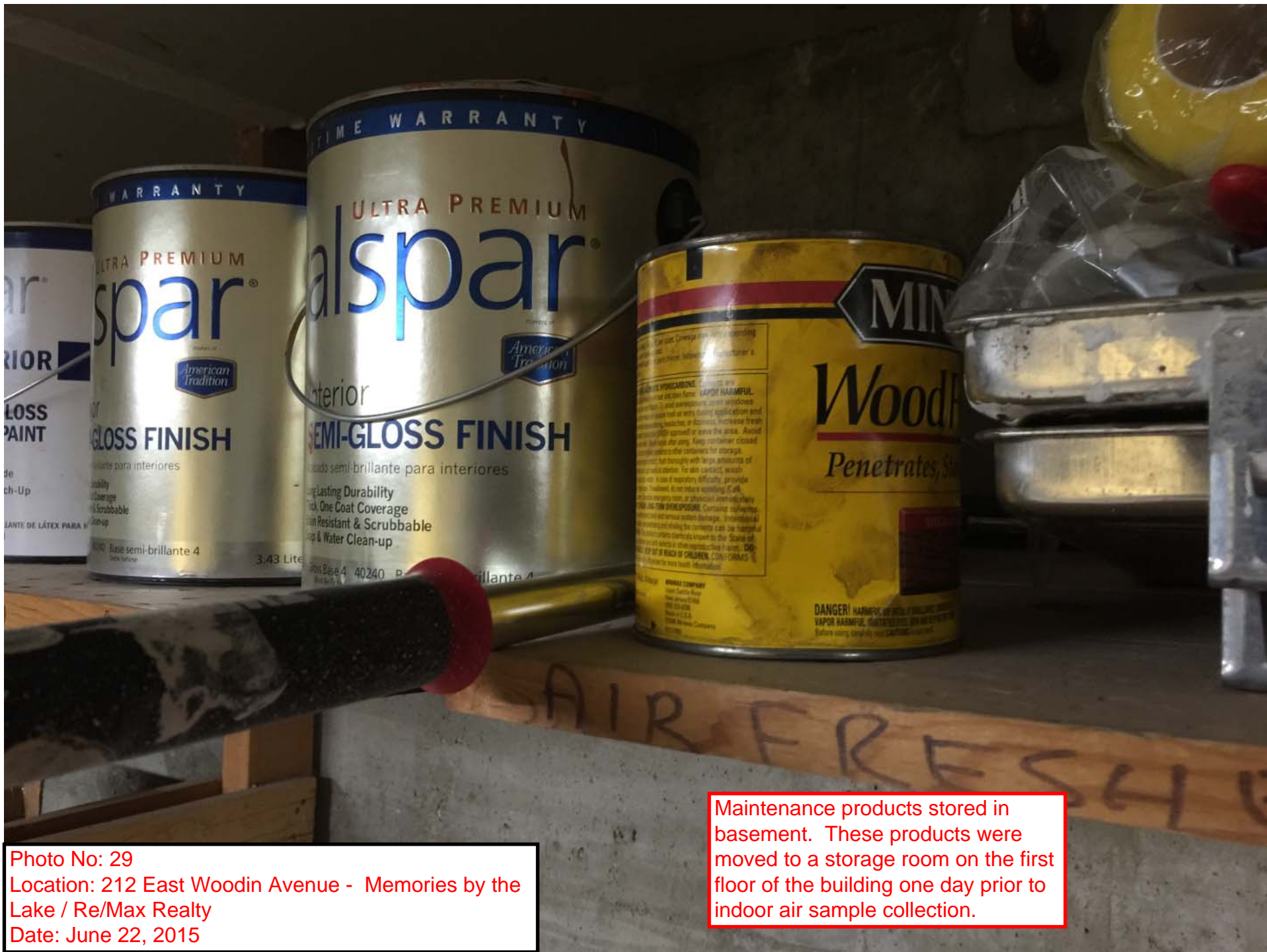


Photo No: 29
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 22, 2015

Maintenance products stored in basement. These products were moved to a storage room on the first floor of the building one day prior to indoor air sample collection.

Maintenance products stored in basement. These products were moved to a storage room on the first floor of the building one day prior to indoor air sample collection.

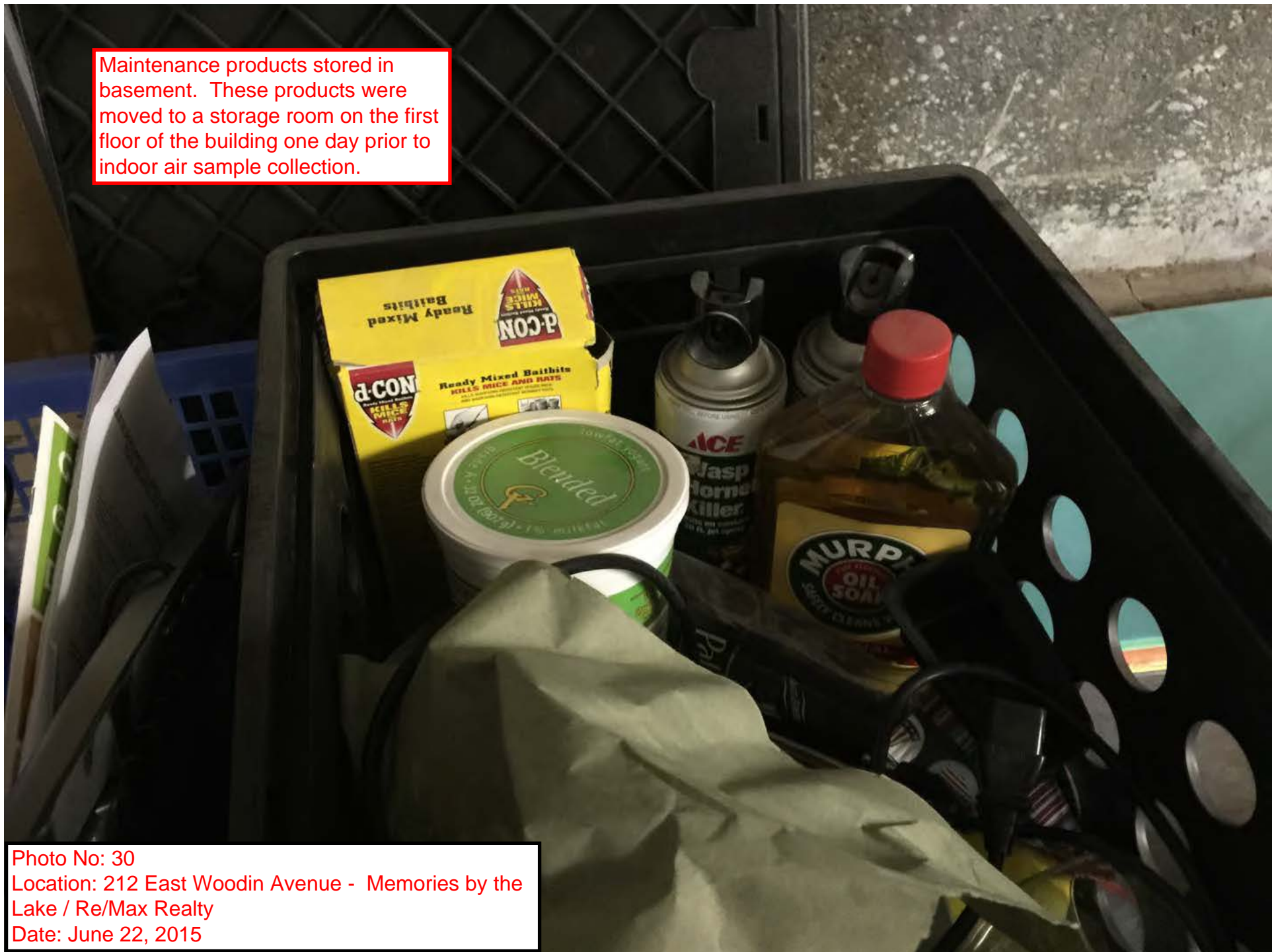
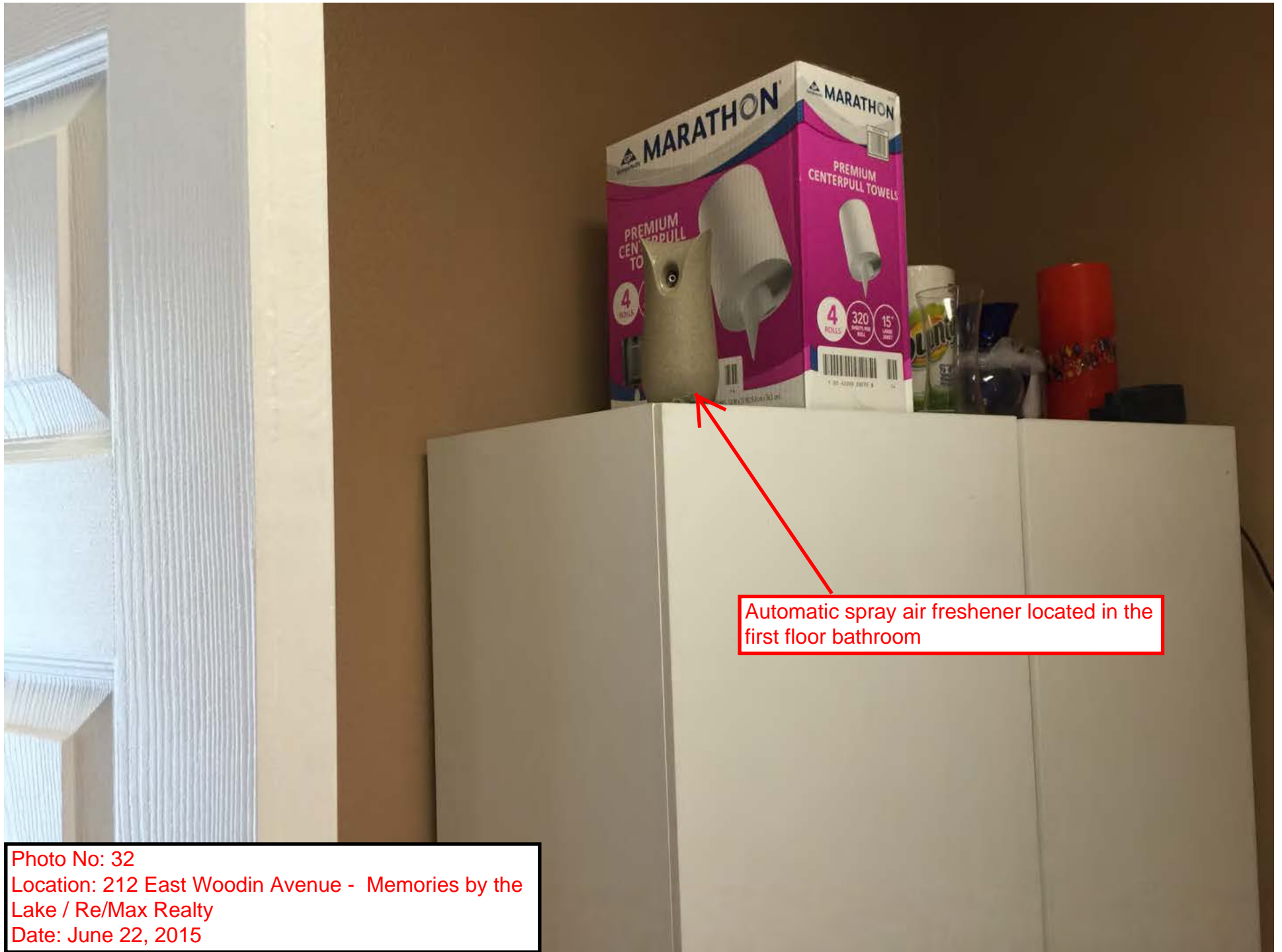


Photo No: 30
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 22, 2015



Photo No: 31
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 22, 2015

Shared bathroom area located on first floor. Leidos detected relatively high levels of VOCs with a PID in this area, apparently due to cleaning products and/or air fresheners use.



Automatic spray air freshener located in the first floor bathroom

Photo No: 32
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 22, 2015



Canister location for collection of indoor air sample IA-212EWA-062315

Photo No: 33
Location: 212 East Woodin Avenue - Memories by the Lake / Re/Max Realty
Date: June 23, 2015

Exterior view of building from Woodin Avenue



Photo No: 34
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014



Eastern basement wall

Photo No: 35
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014



Eastern basement wall

Photo No: 36
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014



Western basement wall

Basement wall adjacent to Woodin Avenue

Photo No: 37
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014



Dirt floor

Former window frame
(now sealed)

Western basement wall

Photo No: 38
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014



Photo No: 39
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014

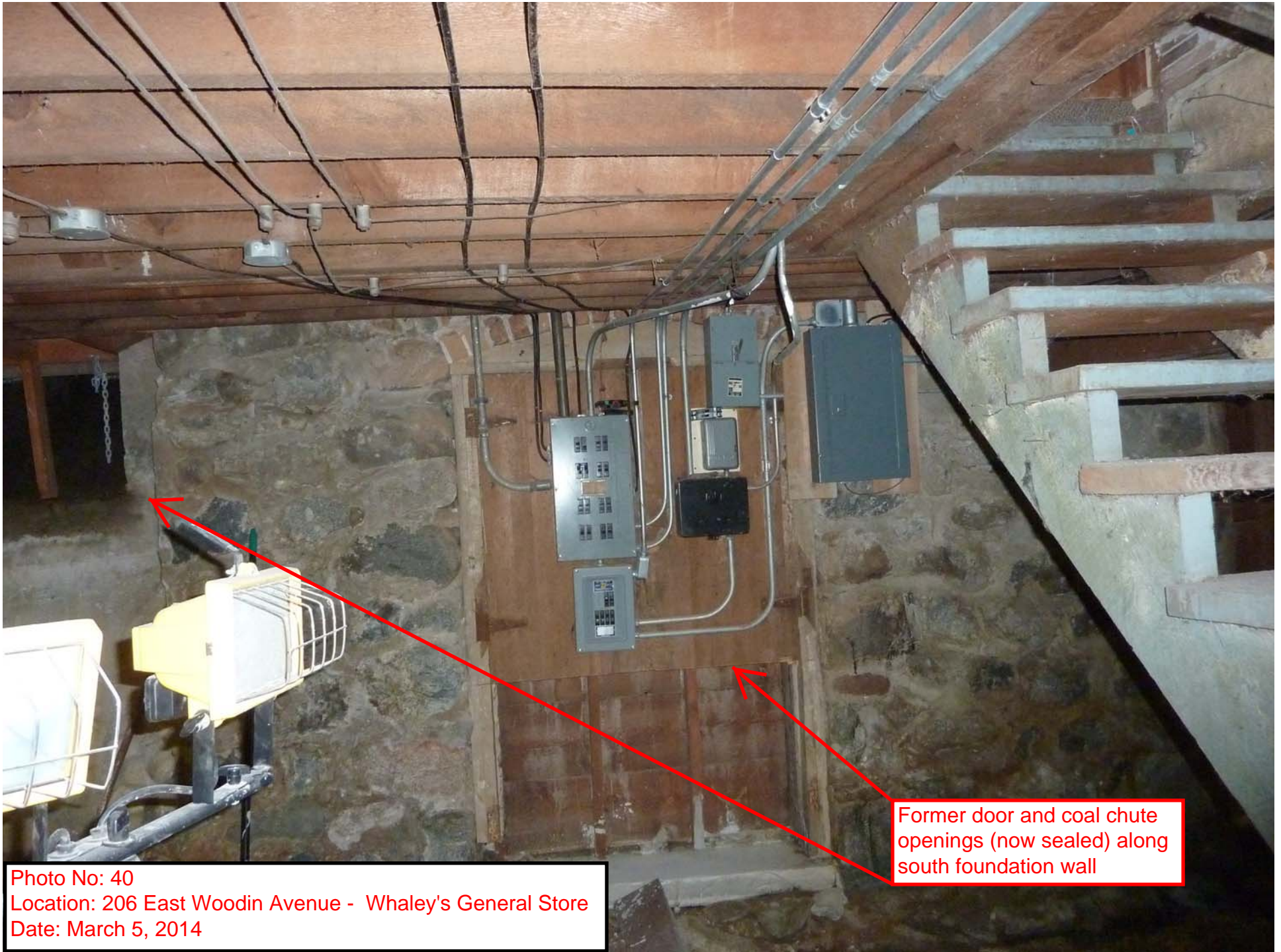


Photo No: 40
Location: 206 East Woodin Avenue - Whaley's General Store
Date: March 5, 2014

Former door and coal chute openings (now sealed) along south foundation wall



Canister location for collection of indoor air sample IA-216EWA-062315

Photo No: 41
Location: 206 East Woodin Avenue - Whaley's General Store
Date: June 23, 2015

Exterior view of building from Woodin Avenue



Photo No: 42
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 5, 2014



Basement access stairs from ground floor

Southern basement wall in southwestern portion of basement

Photo No: 43
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



Door from bottom basement level to lower level museum display area

Looking east from southwestern portion of basement

Photo No: 44
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



Door from bottom basement level to museum display storage area

Photo No: 45
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



Looking south inside
area underlying the
sidewalk west of
building

Photo No: 46
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



Heating oil tank
(no longer in service) located
in area underlying the
sidewalk west of building

Photo No: 47
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



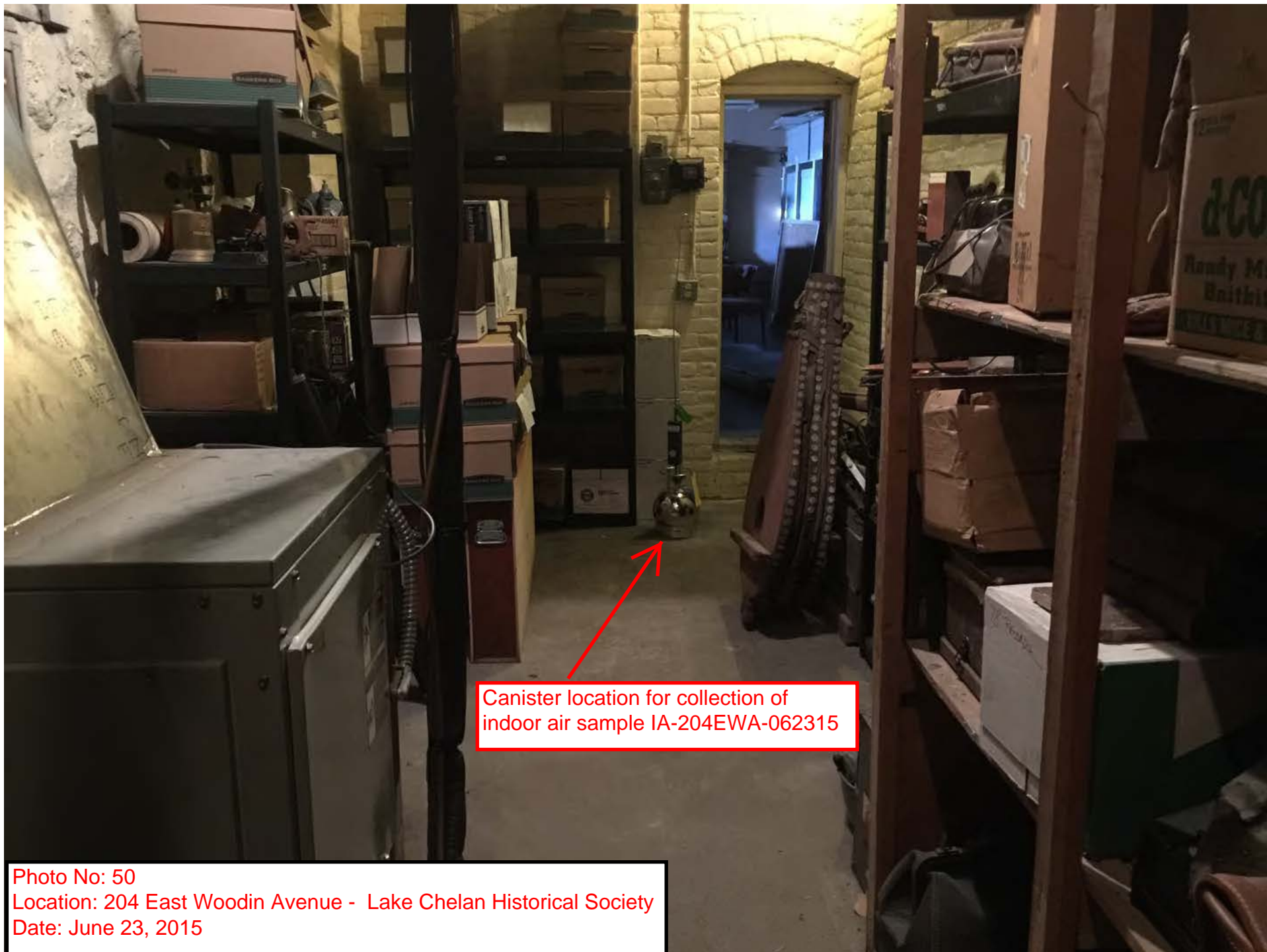
Photo No: 48
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 4, 2014



Basement access stairs
from sidewalk along west
side of building

Door to museum display
storage room in northwest
corner of basement

Photo No: 49
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: March 5, 2014



Canister location for collection of indoor air sample IA-204EWA-062315

Photo No: 50
Location: 204 East Woodin Avenue - Lake Chelan Historical Society
Date: June 23, 2015



Exterior view of building from west side of Emerson Street

Photo No: 51
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014



Basement access
stairwell from kitchen at
east end of building

Photo No: 52
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014



Unsealed opening to crawl space beneath building

Southern basement wall

Door to wine cellar

Photo No: 53
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014

Unsealed opening to crawl space beneath building

Southern basement wall

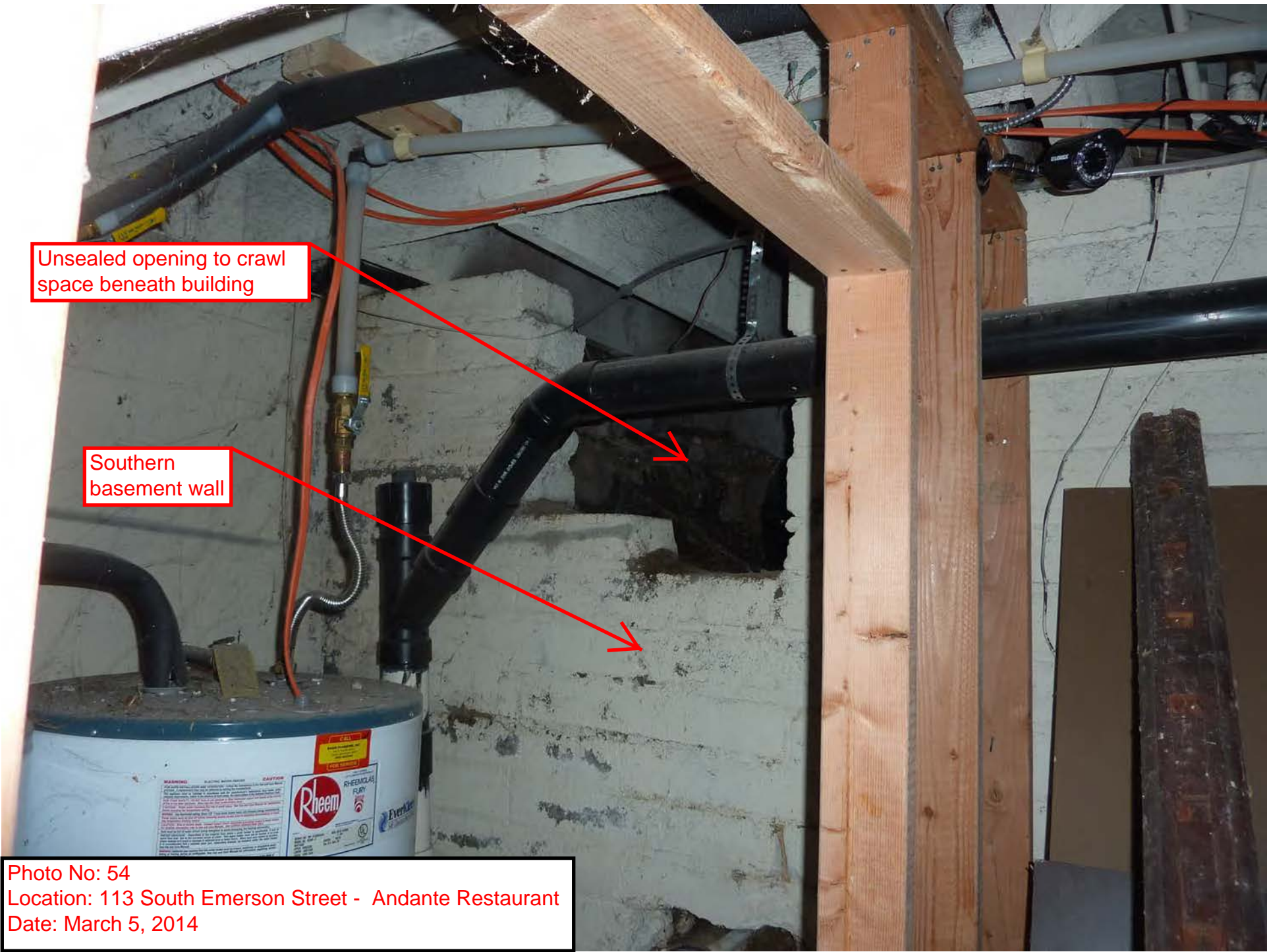


Photo No: 54
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014



Unsealed opening to crawl space beneath building

Looking west into wine cellar

Western basement wall

Photo No: 55
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014



Refrigeration units
against northern
basement wall

Door to
storage room

Photo No: 56
Location: 113 South Emerson Street - Andante Restaurant
Date: March 5, 2014



Photo No: 57

Location: 113 South Emerson Street - Andante Restaurant

Date: March 5, 2014



Photo No: 58
Location: 113 South Emerson Street - Andante Restaurant
Date: June 22, 2015

Storage room

Aerosol paint can containing toluene and xylene that was stored in the basement at this property. This product was removed from the building by the property owner one day prior to indoor air sample collection.

Photo No: 59
 Location: 113 South Emerson Street - Andante Restaurant
 Date: June 22, 2015

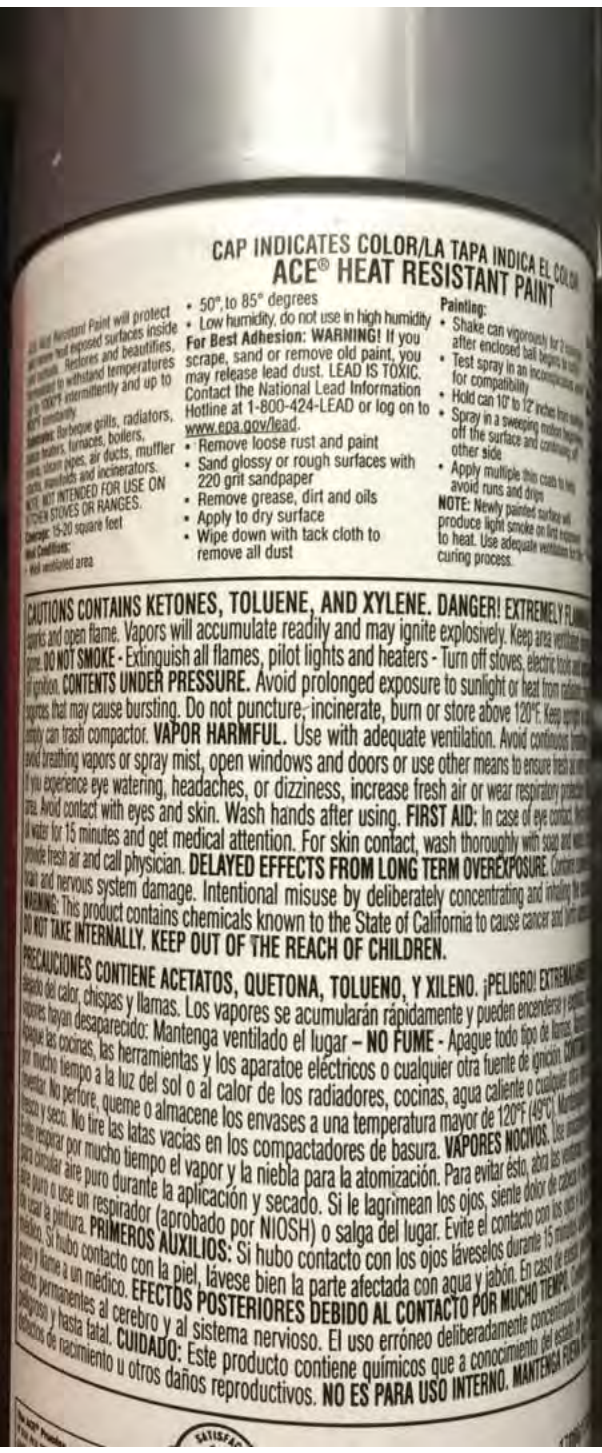


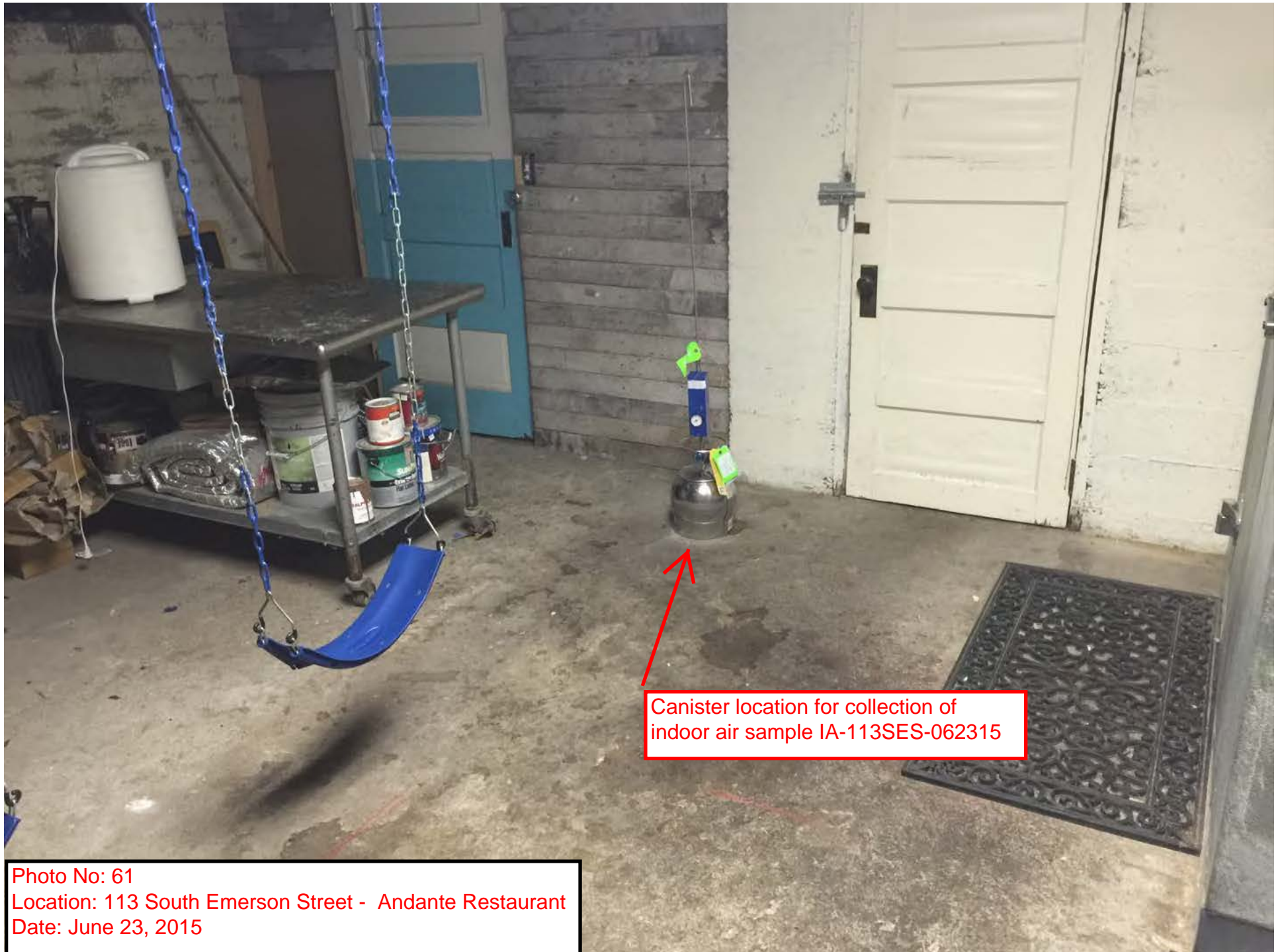


Photo No: 60

Location: 113 South Emerson Street - Andante Restaurant

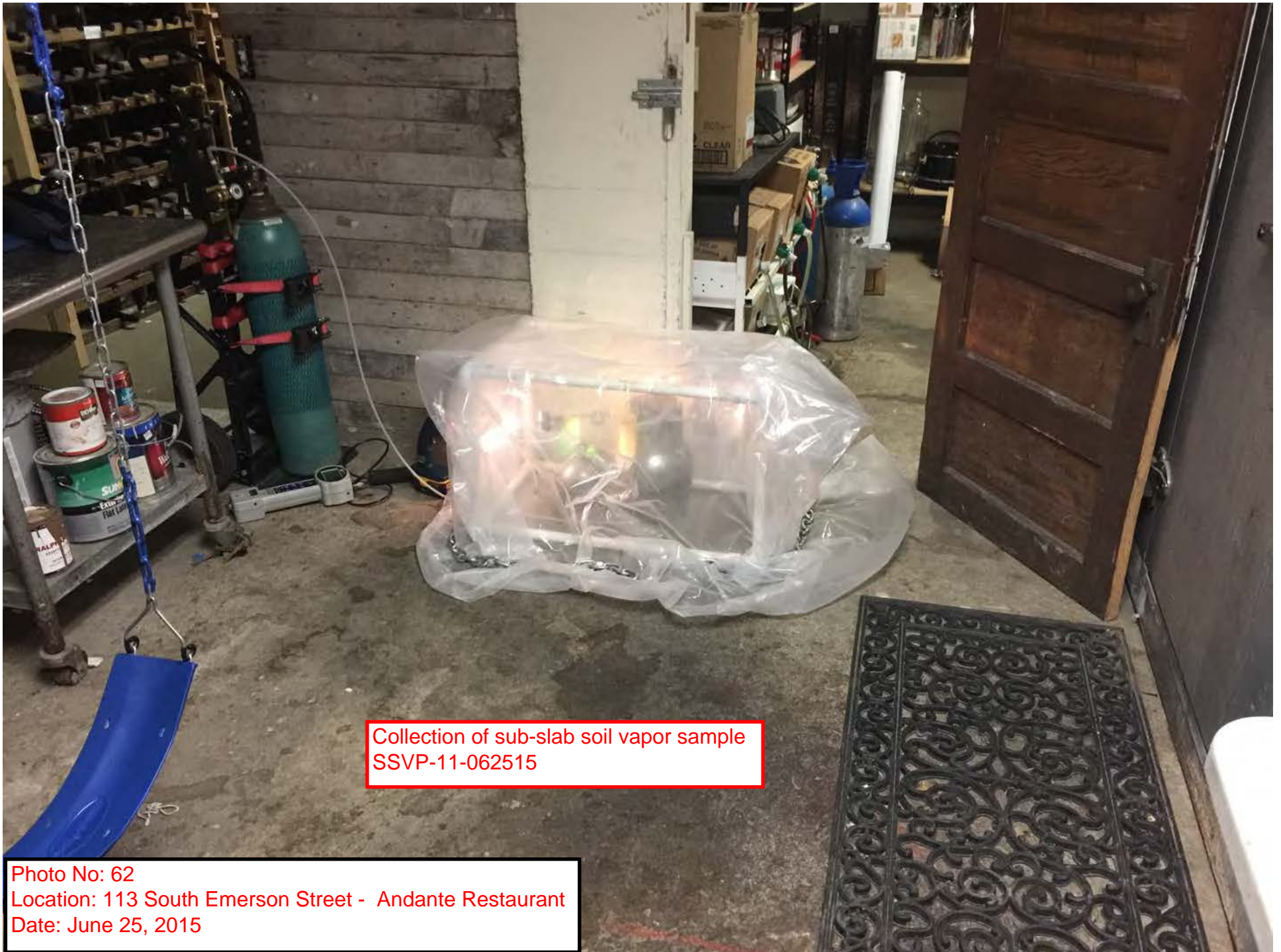
Date: June 22, 2015

Cleaning products stored at top of stairway to basement. These products were removed from the building by the property owner one day prior to indoor air sample collection.



Canister location for collection of indoor air sample IA-113SES-062315

Photo No: 61
Location: 113 South Emerson Street - Andante Restaurant
Date: June 23, 2015



Collection of sub-slab soil vapor sample
SSVP-11-062515

Photo No: 62
Location: 113 South Emerson Street - Andante Restaurant
Date: June 25, 2015



Exterior view of building from Woodin Avenue

Photo No: 63
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014



Basement access from stairwell located toward back of Swim Wear store

Maintenance products stored on shelf along access stairwell to basement

Photo No: 64
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014



Northeast corner
of basement

Basement access
stairs from ground floor

Photo No: 65
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014



Crawl space / utility corridor opening
along north wall of basement

Photo No: 66
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014



South wall of basement

Photo No: 67
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014



Photo No: 68
Location: 146 East Woodin Avenue - Swim World
Date: March 5, 2014

Typical store merchandise
stored in basement

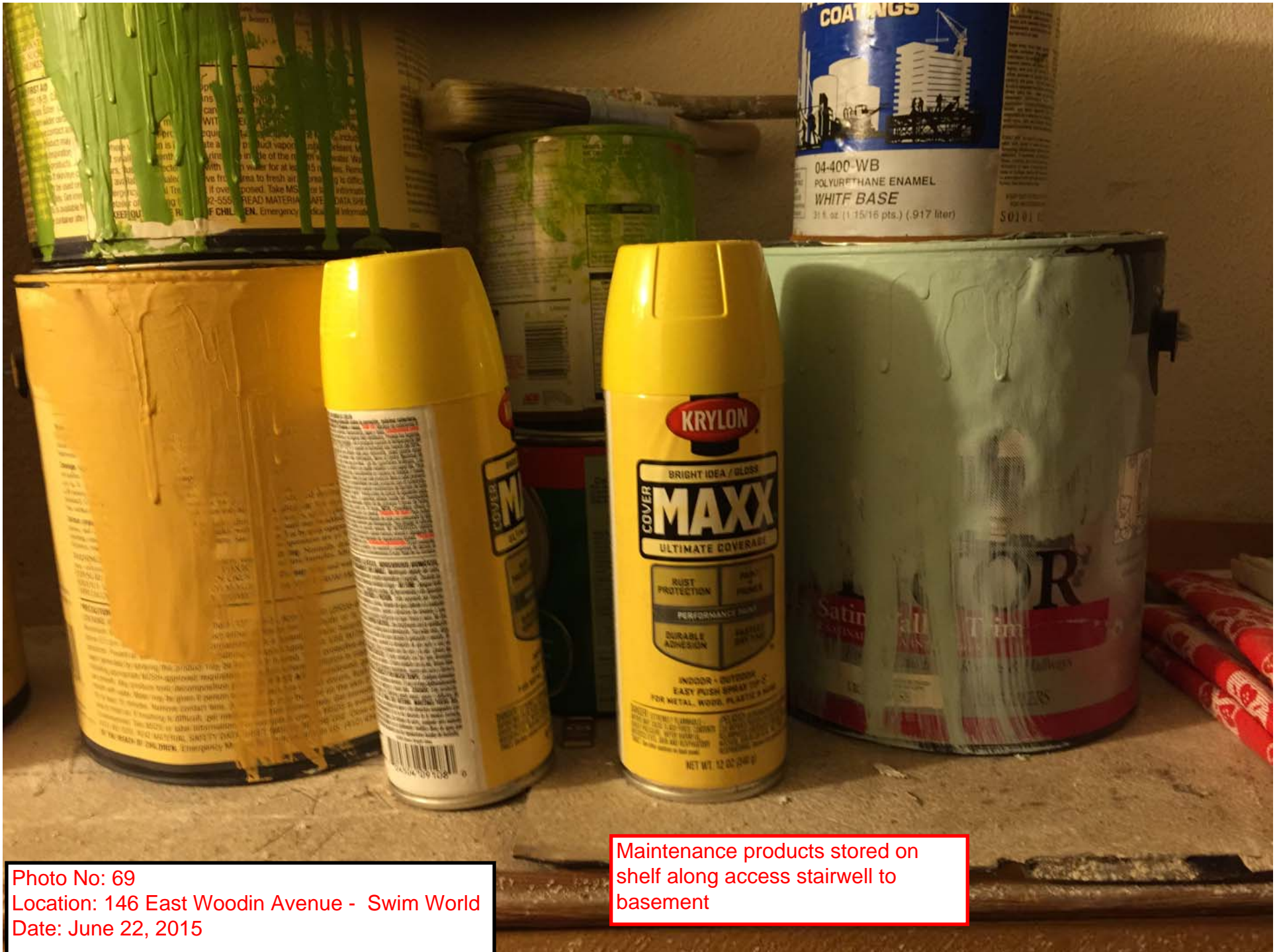


Photo No: 69
Location: 146 East Woodin Avenue - Swim World
Date: June 22, 2015

Maintenance products stored on shelf along access stairwell to basement

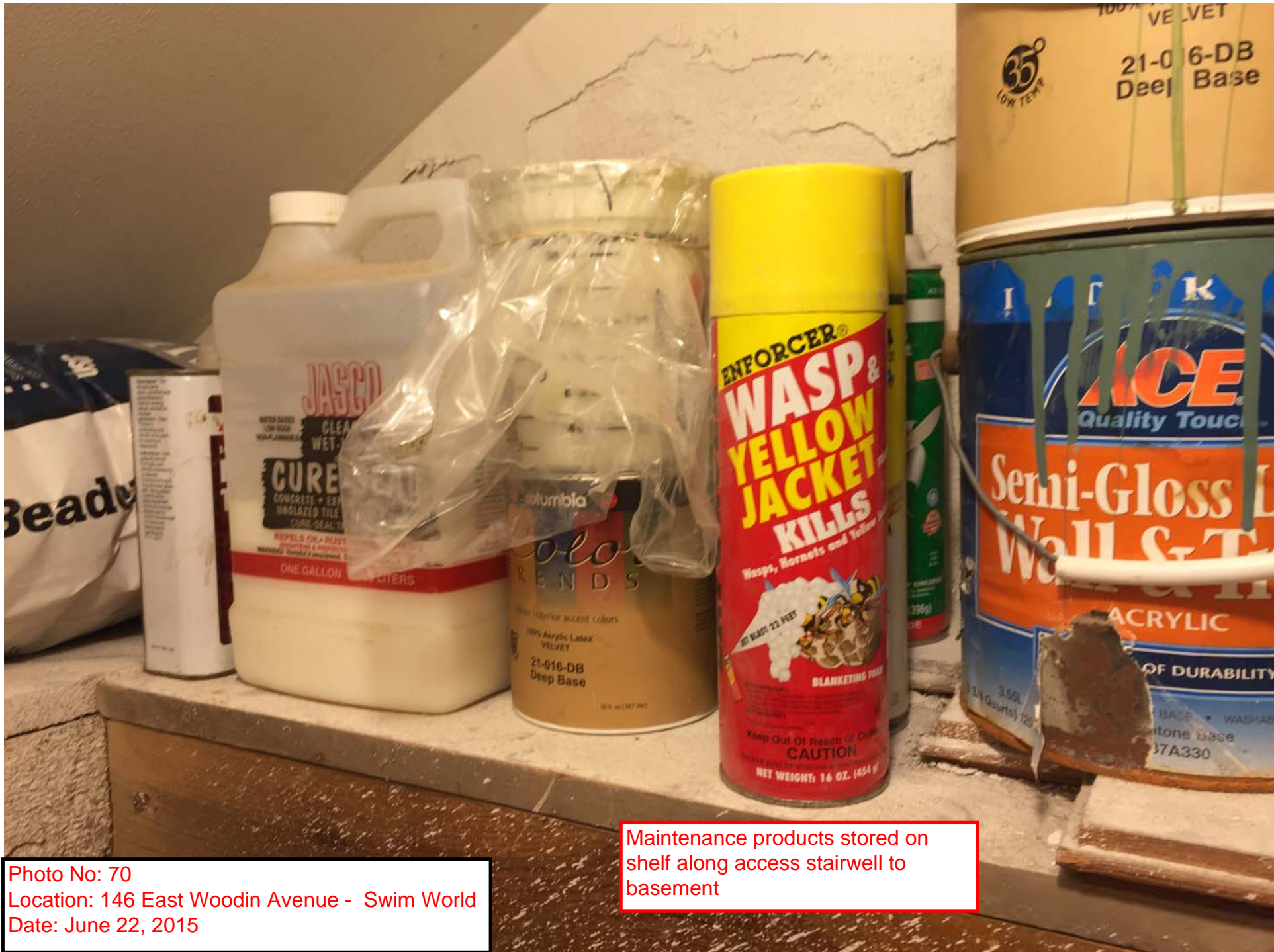


Photo No: 70
Location: 146 East Woodin Avenue - Swim World
Date: June 22, 2015

Maintenance products stored on shelf along access stairwell to basement

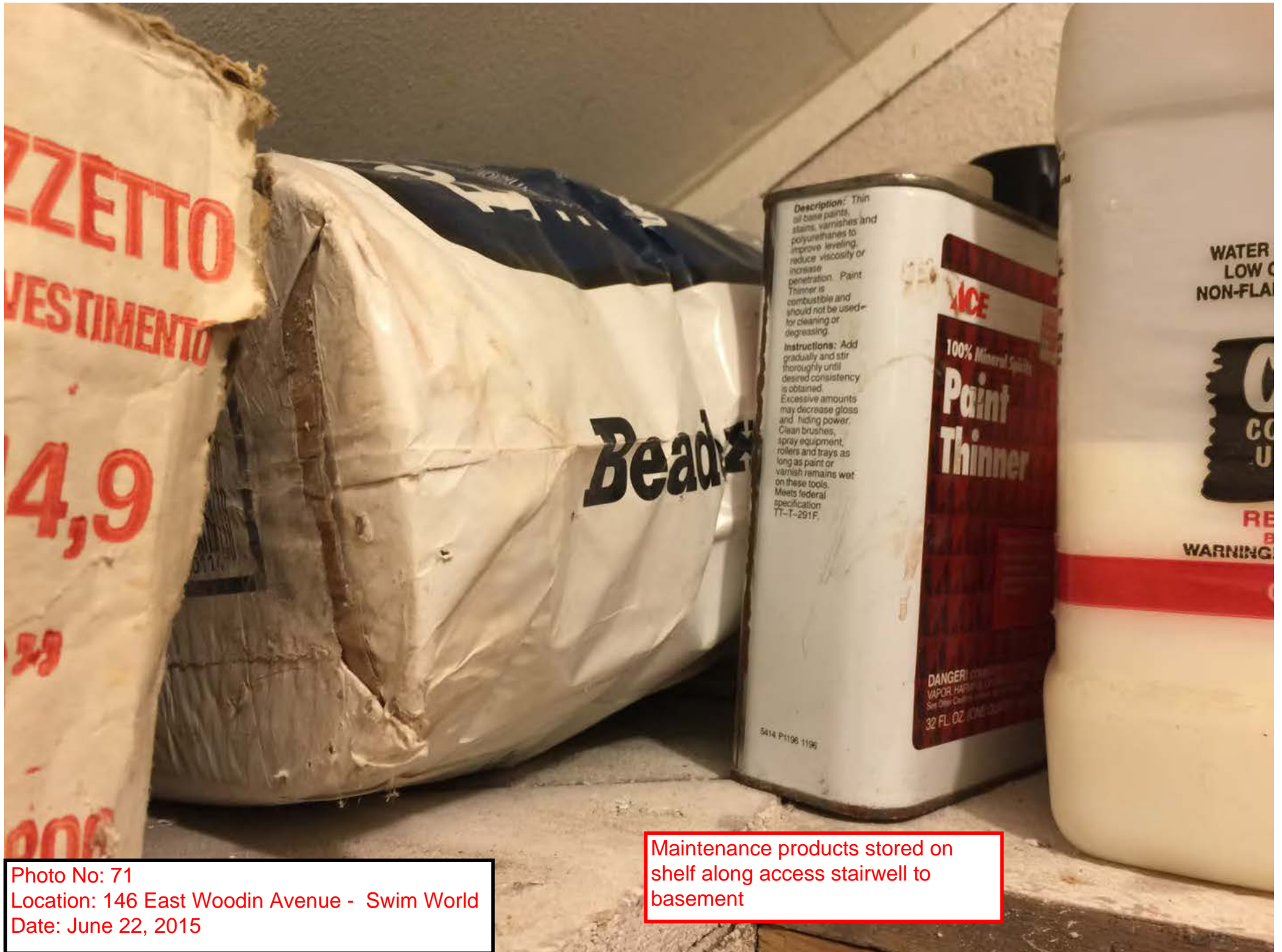


Photo No: 71
Location: 146 East Woodin Avenue - Swim World
Date: June 22, 2015

Maintenance products stored on shelf along access stairwell to basement

Charred floor joists indicate evidence of a previous fire in the building



Photo No: 72
Location: 146 East Woodin Avenue - Swim World
Date: June 22, 2015



Exterior view of building from Woodin Avenue

Photo No: 73
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Southern
basement wall

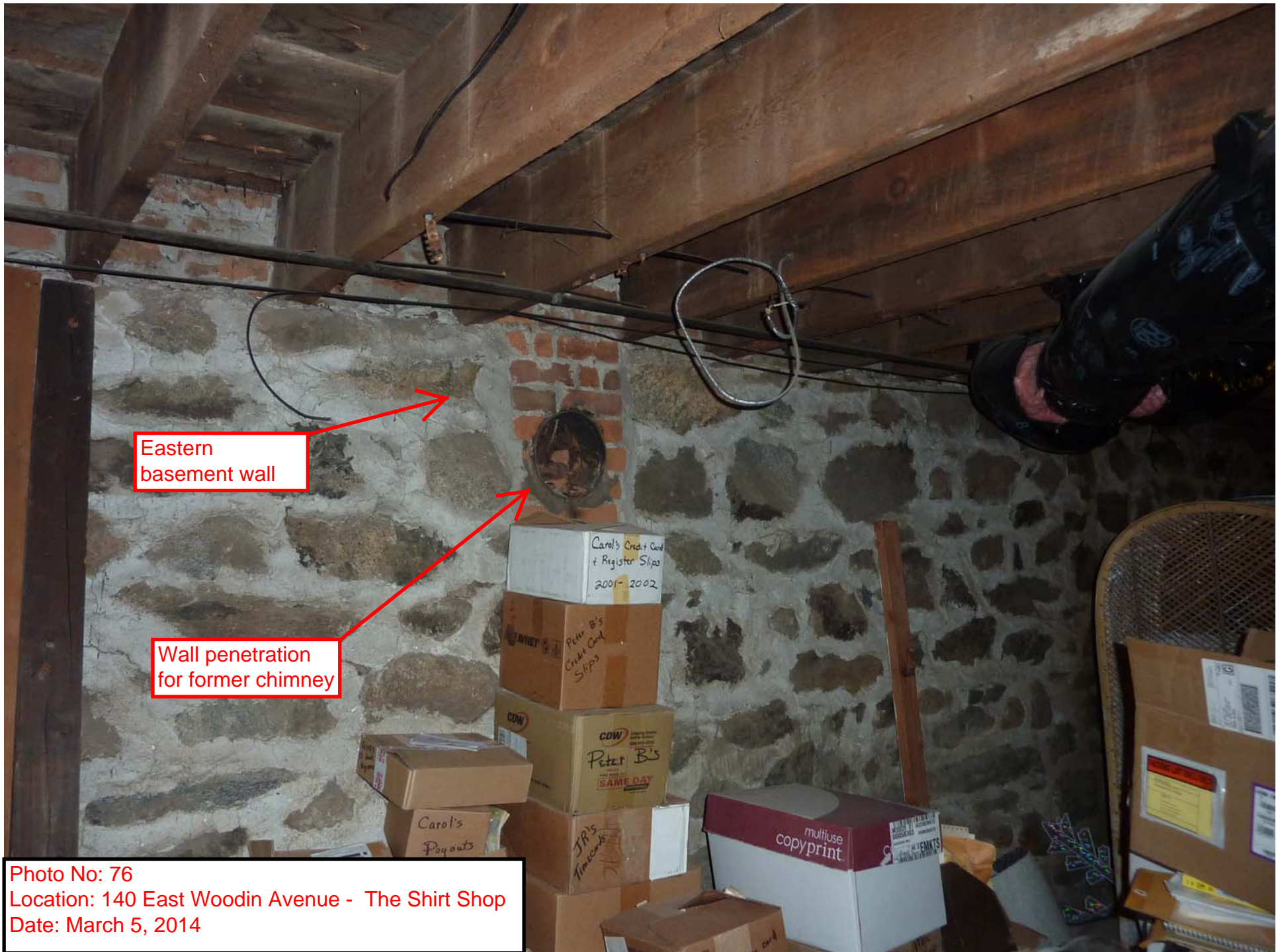
Photo No: 74
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Southeast corner
of basement

Heating oil tank
(not in service)

Photo No: 75
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Eastern basement wall

Wall penetration for former chimney

Photo No: 76
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Eastern
basement wall

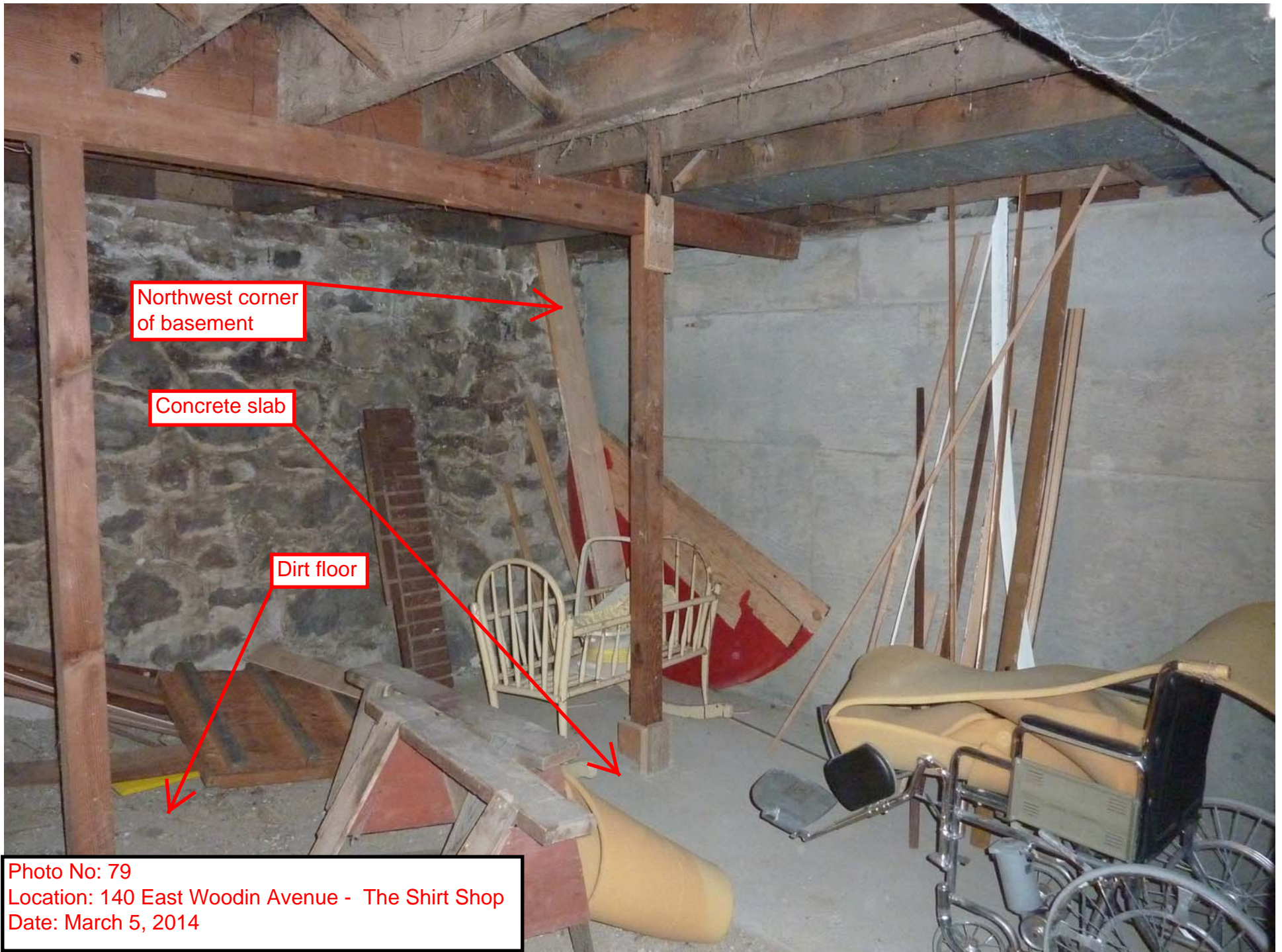
Dirt floor

Photo No: 77
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Northwest corner
of basement

Photo No: 78
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Northwest corner
of basement

Concrete slab

Dirt floor

Photo No: 79
Location: 140 East Woodin Avenue - The Shirt Shop
Date: March 5, 2014



Location of SSVP-13

Photo No: 80
Location: 140 East Woodin Avenue - The Shirt Shop
Date: June 22, 2015



Canister location for collection of indoor air sample IA-113SES-062315

Photo No: 81
Location: 140 East Woodin Avenue - The Shirt Shop
Date: June 23, 2015



Photo No: 82
Location: Sidewalk in front of 140 East Woodin Avenue
Date: June 23, 2015

View showing location of outdoor air sample OA-01-062315



View showing location of outdoor air sample OA-02-062315

Photo No: 83
Location: Sidewalk in front of 222 East Woodin Avenue
Date: June 23, 2015



View showing location of outdoor air sample OA-03-062315

Photo No: 84
Location: Sidewalk in front of 204 East Woodin Avenue
Date: June 23, 2015



View showing location of outdoor air sample OA-04-062315

Photo No: 85
Location: Flag pole at Riverfront Park
Date: June 23, 2015



Monitoring well MW-30

View showing location of outdoor air sample OA-05-062315

Photo No: 86
Location: Parking lot SW of service station property
Date: June 23, 2015



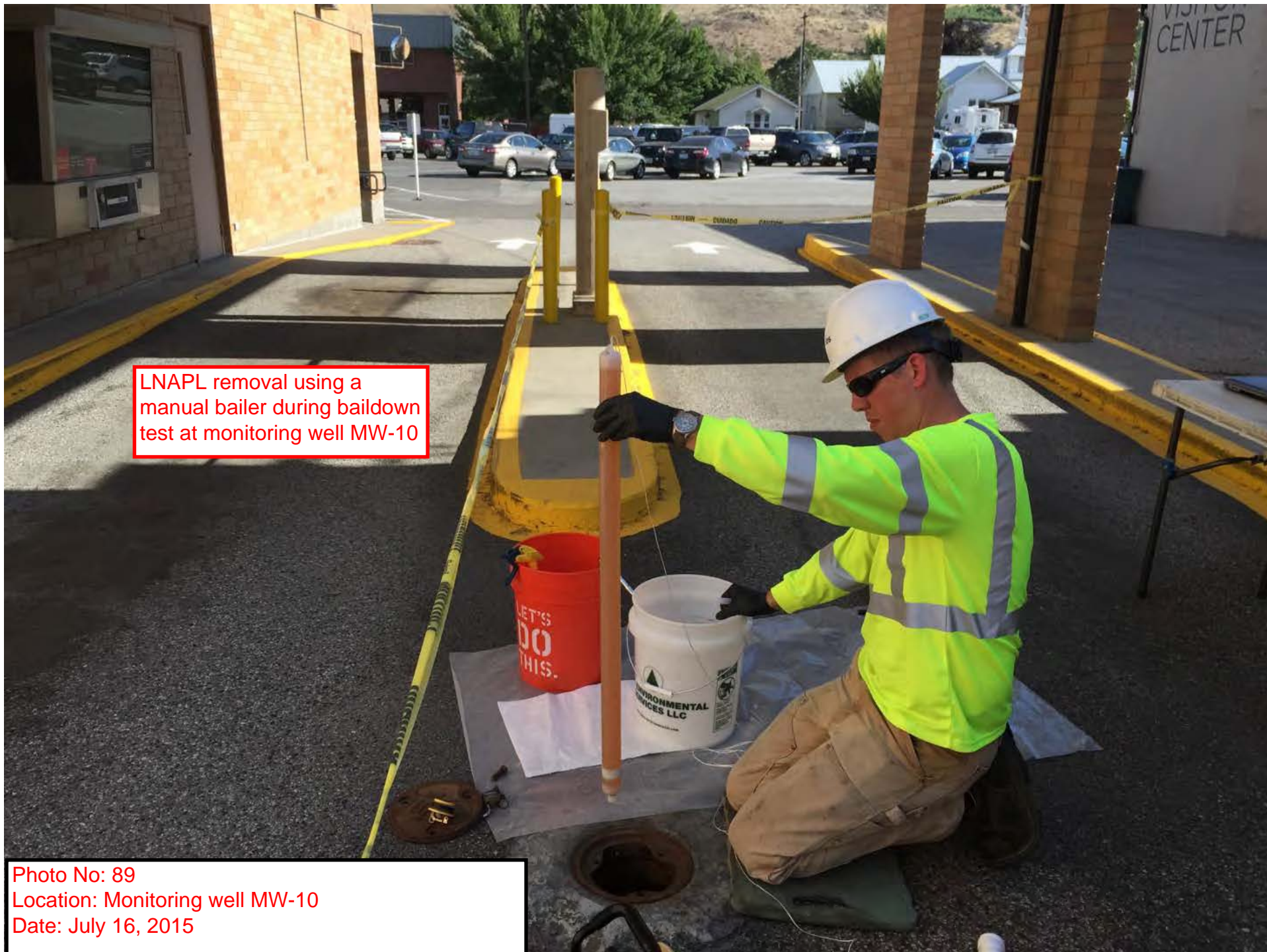
Photo No: 87
Location: Alley behind Chevron service station
Date: June 22, 2015

View of weather station installed to collect local weather data during June 2015 sampling event

LNAPL bailed from monitoring well MW-12 during 7/16/2015 baildown test

LNAPL bailed from monitoring well MW-16 during 7/16/2015 baildown test

Photo No: 88
Location: Chevron service station property
Date: July 16, 2015



LNAPL removal using a manual bailer during baildown test at monitoring well MW-10

Photo No: 89
Location: Monitoring well MW-10
Date: July 16, 2015

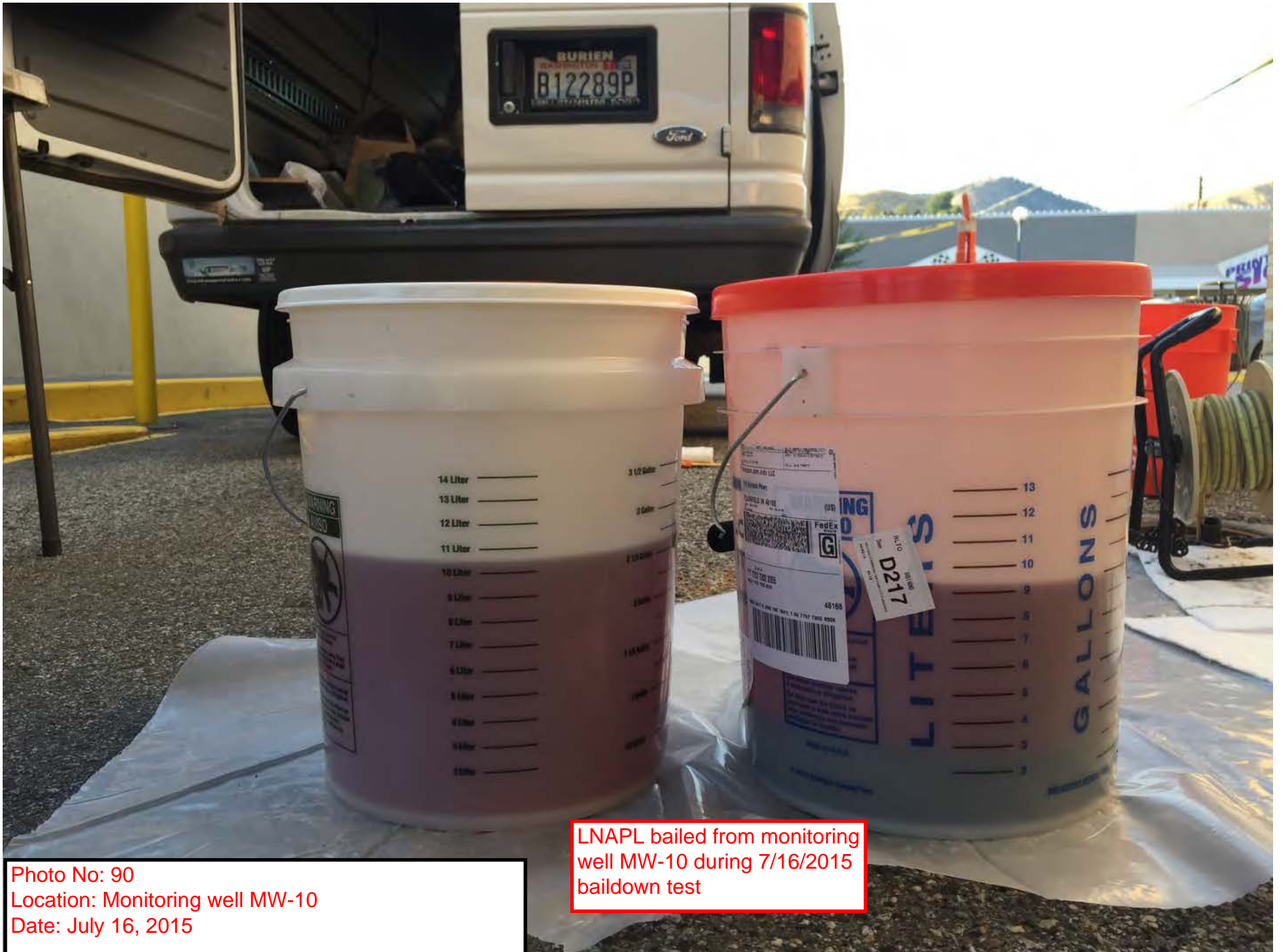


Photo No: 90
Location: Monitoring well MW-10
Date: July 16, 2015

LNAPL bailed from monitoring well MW-10 during 7/16/2015 baildown test

Appendix B:
Sub-Slab Soil Vapor Sampling Field Data Sheets

$$\frac{10}{167} = 0.0598$$

$$0.06$$

Soil Vapor Sample Collection Field Data Sheet

55VP-01-062415

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Inlet Air Temp = 72°F
Humidity = 72%

Sample Loc. ID:

NAPA

~~55A-233EWA-062415~~

Sampler:

RSS / SM13

Date:

6/24/15

Start Time:

0805

Notes:

Outside (background) PID = 0-5 PPB

Inside PID = 120 PPB

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	3040	30	<1
Duplicate Canister	NA	NA	NA
Sampling Manifold	3040		
Purge Canister	94609	30	NA

Notes:

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	0845	28.5	29
End	0902	28.5	29

Notes:

0860 - vacuum dropping during shut-in test. & checking manifold for loose connections. 0857 - started new shut-in test. Second round shut-in test OK.

Vapor Probe Purge

Purge Rate

167 ml/min

Purge Time

10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
0922	0	27.5	>10%	
0925	0	13.5	11.4%	
0926	0	10	11.3%	
0927	0	7	11.2%	
0928	0	5	11.1%	
0929	0	3.5	11.0%	
0930	0	2.5	10.9%	Added helium
0931	0	1.75	11.4%	
0932	0	1	11.4%	
0933	0	<1	11.4%	End of sample period.

Notes:

0935 - Room PID = 120 - 140 PPB

PID reading in probe tubing = 90 PPB

No apparent pressure gradient across slab measured w/ differential pressure gauge.

Wells Fargo
Mechanical
Room

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

~~Indoor~~ Indoor
Indoor temp = 74°F
Humidity = 46%

Sample Loc. ID: SSVP-02-062415

Sampler: RSS / SM13

Date: 6-24-2015

Start Time: 10:05

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	3046	30	<1
Duplicate Canister	NA	NA	NA
Sampling Manifold	3046		
Purge Canister	94609	NA	NA

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1019	28.25	28.5"
End	1024	28.25"	28.5"

Notes: shut-in test OK.

Vapor Probe Purge

Purge Rate 167 ml/min Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1045	0	28	18.7%	Sample start.
1046	0	24	18.0%	
1047	0	20	17.7%	
1048	0	17	17.7%	
1049	0	13.5	17.7%	
1050	0	11	17.7%	
1051	0	8.5	17.7%	
1052	0	6.5	17.7%	
1054 + 1053	0	4	17.7%	
1055 + 1054	0	3	17.7%	
1057	0	1.0	17.7%	
1058	0	<1	17.5%	End of sample collection

Notes: 10:35 Received call from Laura Klesner of Ecology. We're onsite in
in 3 to 4 hours.
PID background in mechanical room is 40 PPB. PID output is slightly
AP gauge indicates that subslab is slightly negative relative to indoor
air in mechanical room. lower
≈ 20-30
ppb.

Wells Fargo
Storage Room

Soil Vapor Sample Collection
Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Inlet Temp = 76°
Humidity = 43%

Sample Loc. ID: SSVP-03-062415

Sampler: RSS/SMB

Date: 6-24-2015

Start Time: 11:15

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	141577	30	< 1
Duplicate Canister	NA	NA	NA
Sampling Manifold	141577		
Purge Canister	94609	NA	NA

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1123	22.5	22.5"
End	1130	22.5"	22.5"

Notes: Shut-in not OK.

Vapor Probe Purge

Purge Rate _____ Purge Time _____

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1141	0"	28.5"	13.3%	sample start
1143	0	20"	11.4%	
1145	0	13"	11.5%	
1147	0	8.5	11.6%	
1149	0	5.0"	11.7%	
1150	0	* 4.0	11.7%	
1151	0	3	11.7%	
1152	0	2.5	11.7%	
1153	0	2.0	11.7%	
1154	0	1.5	11.7%	
1155	0	1	11.7%	
1156	0	< 1	11.7%	sample end.

Notes: PID reading inside storage room ≈ 30 PPB.
PID reading at probe = 15-20 PPB.
Barely perceptible needle response on 0 → 0.2" WC magnetic gauge suggests that sub slab is slightly negative relative to indoor air.

Chelan Chamber of Commerce

**Soil Vapor Sample Collection
Field Data Sheet**

*Interior Temp = 72°F
Humidity = 50%*

**Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA**

Sample Loc. ID: SSVP-04-062415 Sampler: RSS / SMD
 Date: 6-24-2015 Start Time: 18:30
 Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	30 33715	33715 30	
Duplicate Canister	NA	NA	NA
Sampling Manifold	33715		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1843	20	20.75
End	1849	20	20.75

Notes: Shut-in test OK.

Vapor Probe Purge
 Purge Rate _____ Purge Time 10 seconds
 Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1911	0	28	13.2%	Start sample collection
1914	0	19.185	16.3%	
1916	0	12.5	16.5%	
1918	0	8	16.5%	
1920	0	5	16.3%	
1922	0	3.5	16.1%	
1923	0	2.75	16.1%	
1924	0	2.25	16.0%	
1925	0	2	15.9%	
1926	0	1.75	15.8%	
1927	0	1.5	15.8%	
1930	0	1	15.6%	End of sample collection

Notes: PID readings for indoor air ≈ 140 PPB
PID readings in probe tubing ≈ 90-100 PPB
Pressure gauge indicates that subslab is negative 0.025" WC relative to indoor air.

Chelan Chamber of Commerce

**Soil Vapor Sample Collection
Field Data Sheet**
Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Interior Temp. - 74°F
Humidity - 50%

Sample Loc. ID: 55VP-05-062415 Sampler: RSI / SM13
Date: 6-24-2015 Start Time: 1740

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	36487	30"	1.5"
Duplicate Canister	NA	NA	NA
Sampling Manifold	36487		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1748	22"	22.25"
End	1755	22"	22.25"

Notes: Shut in test ok

Vapor Probe Purge
Purge Rate 167 ml/min Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1811	0	28.5	12.5%	start of sample.
1813	0	20.25	12.7%	
1815	0	12.5	14.3%	
1817	0	7.5	14.0%	
1818	0	5.5	13.7%	
1819	0	4.5	13.6%	
1820	0	3.5	13.4%	Helium meter battery out
1822	0	2	NA	
1824	0	1.5	NA	End of sample.

Notes: PID Reading in storage room ≈ 250 PPB
PID reading in probe tubing ≈ 220 PPB
Pressure reading indicates substab vacuum of 0.02 "WC relative to storage room indoor air.

212 E Woodin

Soil Vapor Sample Collection
Field Data Sheet

Interior Temp = 72%

Currently Monitored by the
Lake

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Humidity = 54%

Sample Loc. ID: SSVP-06-062515

Sampler: RSS/SMB

Date: 6-25-2015

Start Time: 0835

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	121689	30	1"
Duplicate Canister	37784	30	1"
Sampling Manifold	121689		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	0848 0857	21.25" 19.75"	21.25" 20"
End	0853 0930	19.75"	20"

Notes: 2 failed shut in tests. Third attempt successful after reassembling manifold.

Vapor Probe Purge

Purge Rate _____ Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
0938	2"	28"	14.6%	vacuum gauge or manifold is
0940	2"	23.25"	12.8%	upside down. Needle may be
0942	2"	19"	12.5%	hanging to give 2" reading
0944	1.5"	15.25"	12.5%	on probe.
0947	1"	11"	12.5%	
0949	1"	8.25"	12.5%	
0951	0"	6.5"	12.4%	
0953 0954	0"	4"	12.3%	
0956	0	3.5"	12.3%	
0958	0	3"	12.2%	
1000	0	2.5"	12.1%	
1002	0	1.75"	11.9%	
Notes: 1005	0	1.5"	11.8%	
1006	0	1"	11.7%	End of sample collection

PIP indoor air ≈ 380 PPB

PID Probe = < 100 PPB

Pressure gauge indicates slight ~~less~~ positive pressure in sub-slab relative to indoor air. ≈ 0.005" WC.

Whaley's

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Intrinsic Temp = 71°F

Humidity = 80%

Sample Loc. ID: 55VP-07-062515

Sampler: RSS / SMB

Date: 6-25-2015

Start Time: 1220

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	16 2726	30	1"
Duplicate Canister	NA	NA	NA
Sampling Manifold	35667		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1221 1228	20" 19.5"	20.75" 20.75"
End	1233	19.5"	20.75"

Notes: Second attempt at shut-in test OK.

Vapor Probe Purge

Purge Rate _____ Purge Time _____

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1243	0"	29.5"	11.5%	Added helium
1245	0"	21"	14.1%	
1248	0"	10"	13.5%	
1250	0"	6"	13.4%	
1252	0"	4"	13.2%	halt & allow on helium meter
1254	0"	3"	13.1%	
1255	0"	2"	12.8%	
1257	0"	1.75"	12.8%	
1258	0"	1.5"	12.7%	
1259	0"	1.5"	12.7%	
1300	0"	1.25"	12.6%	
1302 1304	0"	1"	12.4%	End of sample collection.

Notes: NO PID difference between inlet and subslab air.
NO pressure differential obs observed w/ pressure gauge.

Wheleys

**Soil Vapor Sample Collection
Field Data Sheet**

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Indoor Temp = 72°F
Humidity = 80%
80+%

Sample Loc. ID: SSVP-08-062515
Date: 6-25-2016

Sampler: ZSS / SMB
Start Time: 11:30

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	37676	30	
Duplicate Canister	NA	NA	NA
Sampling Manifold	34132		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1138	21 20.5"	21"
End	1143	20.5"	21"

Notes: 1134 - Initial leak shut-in test failed, immediate vacuum loss observed,

Vapor Probe Purge

Purge Rate _____ Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1155	0"	27.5"	14.5%	Start of sample collection
1158	0"	18"	13.5%	
1200	0"	12"	13.5%	
1202	0"	8"	13.3%	
1204	0"	5.25"	13.2%	
1206	0"	3.25"	13.2%	
1208	0"	2"	13.3%	
1209	0"	2"	13.2%	
1210	0"	1.75"	13.1%	
1211	0"	1.5"	13.0%	
1212	0"	1.25"	12.9%	
1215 +2+4	0"	1.5"	12.8%	End of sample collection

Notes: Indoor air PID = 20-30 PPB
Probe PID reading = 5 to 15 PPB
No pressure differential detected across slab.

**Soil Vapor Sample Collection
Field Data Sheet**

Chevron Service Station No. 96590

Chelan Museum 232 E. Woodin Avenue, Chelan, WA

Ink Temp = 74°F
Humidity = 56%

Sample Loc. ID: 55VP-09-062415 Sampler: RSI / SMIB
 Date: 06/24/2015 Start Time: 13:20
 Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	34099	30"	21
Duplicate Canister	NA	NA	NA
Sampling Manifold	34099		
Purge Canister	94109	NA	NA

Notes: Manifold 34099 - evidence of pipe steps seals all over manifold.

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1345 1553	22"	21" 21.5"
End	1559	22"	21.5"

Notes: 1353 - New to shut-in test. First attempt failed due to slow leak.
Second attempt at shut-in test OK.

Vapor Probe Purge

Purge Rate _____ Purge Time _____
 Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1432	0	26.5	15.3%	
1434	0	19	11.5%	
1436	0	11.75	NA	Helium detector not working.
1437 1438 1438	0	7	NA	
1439 1439	0	5	NA	
1440	0	4	NA	
1442 1441	0	2	NA	
1443	0	1.25	NA	
1444	0	21	NA	End of sample.

Notes: PID background = 60 PPD.
PID readings from probe = 60-70 PPD.

Beneath sidewalk
at Chelan Museum.

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Intrior Temp = 76°F
Humidity - 72%

Sample Loc. ID: SSVP-10-062515

Sampler: RSS/SMB

Date: 6-25-2015

Start Time: 14:00

Notes: Canister 31790 was did not contain sufficient vacuum for sampling.
only 15" Hg.

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	31790 31762	27.75	1"
Duplicate Canister	NA	NA	NA
Sampling Manifold	31790		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1409	18.5"	18.75 18.5"
End	1417	18.5"	18.5"

Notes: shut-in test OK.

Vapor Probe Purge

Purge Rate 167 ml/min Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1432	0"	24"	13%	start sample collection Added helium
1434	0"	15"	16.5%	Added
1436	0"	8"	16.0%	
1438	0"	4"	15.7%	
1439	0"	3"	15.5%	
1440	0"	2"	15.2%	
1441	0"	1.5"	15.0%	
1442	0	1"	14.8%	End of sample collection

Notes: _____

Andante

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Interior temp = 75°F

Humidity = 63%

Sample Loc. ID: SSVP-11-062515

Sampler: RSS / SM13

Date: 6-25-2015

Start Time: 0730

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	31758	30"	1"
Duplicate Canister	NA	NA	NA
Sampling Manifold	31758		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	0740	20.75"	21"
End	0745	20.75"	21"

Notes: Shut-in test OK

Vapor Probe Purge
Purge Rate _____ Purge Time 10 seconds
Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
0755	0	28"	18.0%	Start of sample collection
0757	0	20.5"	17.2%	
0759	0	13.75"	16.7%	
0801	0	8.5"	16.2%	
0803	0	5.5"	15.9%	
0805	0	3.25"	15.5%	
0806	0	2.5"	15.4%	
0807	0	1.75	15.2%	
0808	0	1.25	15.0%	
0809	0	1.0	14.9%	End of sample collection

Notes: Indoor Indoor air PID = 100-110 PPB
Probe PID = 70-80 PPB
No pressure differential between probe and indoor air.

**Soil Vapor Sample Collection
Field Data Sheet**

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Fem Temp = 64°F
Humidity = 58%

Swim World

Sample Loc. ID: SSVP-12-062415

Sampler: RSS/SMD

Date: 6/24/2015

Start Time: 15:30

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	34087	30	<1
Duplicate Canister	35554		
Sampling Manifold	34087		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1608	21"	20"
End	1613	21"	20"

Notes: Shut-in test OK. Prepared to sample

Vapor Probe Purge

Purge Rate _____ Purge Time _____

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1625	0	26.5	15%	sample start
1628	0	18.5 23.5 RSS	13.5%	
1631	0	11.5	12.8%	
1633	0	8.25	12.7%	
1635	0	5.5	12.5%	
1637	0	3.75	12.3%	
1639	0	2.5	12.2%	
1640	0	2	12.1%	
1641	0	1.5	12.0%	
1642	0	1.25	11.9%	
1643	0	<1	11.8%	End of sample
1644				

Notes: PID reading basement background = 130 PPB
PID reading in probe tubing < 100 PPB
Barely perceptible needle movement on OP gauge intake suggests that sub-slab is slightly positive relative to basement indoor air.

Shirt Shop
North

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Interior Temp = 69°F

Humidity = 51%

Sample Loc. ID: 55VP-13-062515

Sampler: RSS/SMP

Date: 6-25-2015

Start Time: 1530

Notes:

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	11835	30"	
Duplicate Canister	NA	NA	NA
Sampling Manifold	11835		
Purge Canister	94609		

Notes:

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1538	18.75"	19.75"
End	1544	18.75"	19.75"

Notes:

Shut-in test OK. Reassembled manifold due to failed
shut-in test yesterday

Vapor Probe Purge

Purge Rate

Purge Time

10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1554	0"	28"	14.9%	start sample collection.
1556	0"	20"	13.4%	
1558	0"	13"	13.1%	
1600	0"	8.5"	13.1%	
1602	0"	5"	13.1%	
1604	0"	3.25"	13.0%	
1606	0"	2.25"	12.7%	
1608	0"	1.5"	12.7%	
1609	0"	1.25"	12.7%	
1610	0"	1.25"	12.5%	
1610:30	0"	1"	12.4%	End of sample collection.

Notes:

PID indoor air \approx 120 PPB

PID probe = 80-90 PPB

No pressure difference measured across slab.

Shift
Ship south

**Soil Vapor Sample Collection
Field Data Sheet**
Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Interior Temp =
Humidity =

Sample Loc. ID: SSVP-14-062515
Date: 6-25-2015

Sampler: RSS / SMB
Start Time: 1615

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	34581	30"	1"
Duplicate Canister	NA	NA	NA
Sampling Manifold	34087		
Purge Canister	94609		

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1620	19.5"	18.75"
End	1625	19.5"	18.75"

Notes: _____

Vapor Probe Purge

Purge Rate _____ Purge Time _____
Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1634	2.25" 8"	28.5"	14.5%	Start sample collection
1636	2"	16.5"	14.6%	
1638	2"	8"	14.3%	
1640	1.5"	4"	14.1%	
1641	1.5"	2.25"	14.0%	
1642	1.5"	1.5"	14.0%	
1643	1.5"	1"	14.0%	End of sample collection

Notes: PID indoor air \approx 120 PPB
PID probe = 80-100 PPB
No pressure differential measured across slab.

Soil Vapor Sample Collection Field Data Sheet

Chevron Service Station No. 96590
232 E. Woodin Avenue, Chelan, WA

Sample Loc. ID: EB-062915 Sampler: RSS
Date: 6-29-2015 Start Time: 1415

Notes: _____

Canister Information	Canister ID #	Initial Vacuum	Final Vacuum
Sample Canister	1043	30	
Duplicate Canister LMB AIR	34132	29.7 PSIA Pressure	
Sampling Manifold			
Purge Canister			

Notes: _____

Initial Leak Check	Time	Vacuum - Inlet Gauge	Vacuum - Canister Gauge
Start	1430 1435	18"	17.25"
End	1431445	15"	17.25"

Notes: Initial leak test at 14:30 failed instantly
shut-in test OK

Vapor Probe Purge

Purge Rate _____ Purge Time 10 seconds

Note: For 0.15" ID tubing, 3X purge volume = approx. 10 ml/foot of tubing.

Vapor Sample Collection

Time	Vacuum - Vapor Probe	Vacuum - Canister	Helium Concentration - Shroud	Comments
1451:30	0	26	> 10%	Helium conc. estimated
1453	0	15	> 10%	
1454	0	10	> 10%	
1455	0	7	> 10%	
1457	3	5	> 10%	
1458	3.5	4.5	> 10%	
1459	3.5 3	3.5 3	> 10%	end of sample.

Notes: _____

Appendix C:
Tier 2 Assessment Laboratory Analytical Reports

7/21/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:
Project #:
Workorder #: 1507011A

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507011A

Work Order Summary

CLIENT:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011	BILL TO:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011
PHONE:	425-485-5800	P.O. #	300511.00.13.W.161A.0711.
FAX:		PROJECT #	
DATE RECEIVED:	07/01/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/14/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA-204EWA-062315	Modified TO-15 SIM	5.9 "Hg	5.2 psi
02A	IA-222EWA-062315	Modified TO-15 SIM	5.7 "Hg	5.1 psi
03A	IA-206EWA-062315	Modified TO-15 SIM	4.5 "Hg	5.1 psi
04A	IA-233EWA-062315	Modified TO-15 SIM	3.3 "Hg	5 psi
05A	IA-216EWA-062315	Modified TO-15 SIM	4.7 "Hg	5 psi
06A	IA-212EWA-062315	Modified TO-15 SIM	4.1 "Hg	5.2 psi
07A	IA-146EWA-062315	Modified TO-15 SIM	5.3 "Hg	5.1 psi
08A	IA-113SES-062315	Modified TO-15 SIM	3.7 "Hg	5 psi
09A	IA-140EWA-062315	Modified TO-15 SIM	4.7 "Hg	5.1 psi
10A	OA-05-062315	Modified TO-15 SIM	9 "Hg	5.2 psi
11A	OA-01-062315	Modified TO-15 SIM	8.8 "Hg	5 psi
12A	OA-02-062315	Modified TO-15 SIM	8 "Hg	5 psi
13A	OA-03-062315	Modified TO-15 SIM	8.4 "Hg	4.8 psi
14A	OA-04-062315	Modified TO-15 SIM	1.6 "Hg	5.4 psi
15A	Lab Blank	Modified TO-15 SIM	NA	NA
16A	CCV	Modified TO-15 SIM	NA	NA
17A	LCS	Modified TO-15 SIM	NA	NA
17AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 07/14/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Leidos (formerly SAIC)
Workorder# 1507011A

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on July 01, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA-204EWA-062315

Lab ID#: 1507011A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.084	0.089	0.27	0.28
Toluene	0.034	0.55	0.13	2.1
Ethyl Benzene	0.034	0.081	0.15	0.35
m,p-Xylene	0.068	0.24	0.29	1.1
o-Xylene	0.034	0.081	0.15	0.35
Naphthalene	0.084	0.46	0.44	2.4

Client Sample ID: IA-222EWA-062315

Lab ID#: 1507011A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.083	0.086	0.26	0.27
Toluene	0.033	0.29	0.12	1.1
Ethyl Benzene	0.033	0.052	0.14	0.23
m,p-Xylene	0.066	0.14	0.29	0.60
o-Xylene	0.033	0.052	0.14	0.23

Client Sample ID: IA-206EWA-062315

Lab ID#: 1507011A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.079	0.77	0.25	2.5
Toluene	0.032	5.6	0.12	21
Ethyl Benzene	0.032	0.75	0.14	3.3
m,p-Xylene	0.063	2.5	0.27	11
o-Xylene	0.032	1.0	0.14	4.6
Methyl tert-butyl ether	0.16	1.8	0.57	6.5
Naphthalene	0.079	1.5	0.41	7.8

Client Sample ID: IA-233EWA-062315

Lab ID#: 1507011A-04A

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA-233EWA-062315

Lab ID#: 1507011A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.075	0.32	0.24	1.0
Toluene	0.030	4.5	0.11	17
Ethyl Benzene	0.030	2.3	0.13	10
m,p-Xylene	0.060	5.0	0.26	22
o-Xylene	0.030	1.2	0.13	5.2
Naphthalene	0.075	0.27	0.39	1.4

Client Sample ID: IA-216EWA-062315

Lab ID#: 1507011A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.091	0.25	0.29
Toluene	0.032	1.2	0.12	4.7
Ethyl Benzene	0.032	0.25	0.14	1.1
m,p-Xylene	0.064	0.73	0.28	3.2
o-Xylene	0.032	0.38	0.14	1.7
Naphthalene	0.080	0.20	0.42	1.1

Client Sample ID: IA-212EWA-062315

Lab ID#: 1507011A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.20	0.25	0.64
Toluene	0.031	1.9	0.12	7.1
Ethyl Benzene	0.031	0.20	0.14	0.88
m,p-Xylene	0.063	0.38	0.27	1.6
o-Xylene	0.031	0.17	0.14	0.73
Naphthalene	0.078	0.15	0.41	0.80

Client Sample ID: IA-146EWA-062315

Lab ID#: 1507011A-07A

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA-146EWA-062315

Lab ID#: 1507011A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	0.20	0.26	0.64
Toluene	0.033	2.1	0.12	7.9
Ethyl Benzene	0.033	0.98	0.14	4.3
m,p-Xylene	0.066	2.6	0.28	11
o-Xylene	0.033	0.85	0.14	3.7
Naphthalene	0.082	0.13	0.43	0.69

Client Sample ID: IA-113SES-062315

Lab ID#: 1507011A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.076	0.092	0.24	0.30
Toluene	0.031	0.64	0.12	2.4
Ethyl Benzene	0.031	0.072	0.13	0.31
m,p-Xylene	0.061	0.15	0.26	0.66
o-Xylene	0.031	0.058	0.13	0.25

Client Sample ID: IA-140EWA-062315

Lab ID#: 1507011A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.18	0.26	0.56
Toluene	0.032	0.76	0.12	2.9
Ethyl Benzene	0.032	0.13	0.14	0.56
m,p-Xylene	0.064	0.42	0.28	1.8
o-Xylene	0.032	0.17	0.14	0.73

Client Sample ID: OA-05-062315

Lab ID#: 1507011A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.096	0.13	0.31	0.42

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: OA-05-062315

Lab ID#: 1507011A-10A

Toluene	0.039	0.48	0.14	1.8
Ethyl Benzene	0.039	0.065	0.17	0.28
m,p-Xylene	0.077	0.23	0.34	1.0
o-Xylene	0.039	0.080	0.17	0.34

Client Sample ID: OA-01-062315

Lab ID#: 1507011A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.094	0.24	0.30	0.77
Toluene	0.038	0.52	0.14	2.0
Ethyl Benzene	0.038	0.083	0.16	0.36
m,p-Xylene	0.076	0.30	0.33	1.3
o-Xylene	0.038	0.10	0.16	0.46

Client Sample ID: OA-02-062315

Lab ID#: 1507011A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.091	0.14	0.29	0.43
Toluene	0.036	0.38	0.14	1.4
Ethyl Benzene	0.036	0.062	0.16	0.27
m,p-Xylene	0.073	0.22	0.32	0.96
o-Xylene	0.036	0.081	0.16	0.35

Client Sample ID: OA-03-062315

Lab ID#: 1507011A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.092	0.16	0.29	0.52
Toluene	0.037	0.36	0.14	1.4
Ethyl Benzene	0.037	0.060	0.16	0.26
m,p-Xylene	0.074	0.21	0.32	0.91
o-Xylene	0.037	0.074	0.16	0.32

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: OA-04-062315

Lab ID#: 1507011A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.029	0.11	0.11	0.40



Air Toxics

Client Sample ID: IA-204EWA-062315

Lab ID#: 1507011A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070207sim	Date of Collection:	6/23/15 3:57:00 PM
Dil. Factor:	1.69	Date of Analysis:	7/2/15 01:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.084	0.089	0.27	0.28
Toluene	0.034	0.55	0.13	2.1
Ethyl Benzene	0.034	0.081	0.15	0.35
m,p-Xylene	0.068	0.24	0.29	1.1
o-Xylene	0.034	0.081	0.15	0.35
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
Naphthalene	0.084	0.46	0.44	2.4

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: IA-222EWA-062315

Lab ID#: 1507011A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070208sim	Date of Collection:	6/23/15 5:07:00 PM
Dil. Factor:	1.66	Date of Analysis:	7/2/15 02:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.083	0.086	0.26	0.27
Toluene	0.033	0.29	0.12	1.1
Ethyl Benzene	0.033	0.052	0.14	0.23
m,p-Xylene	0.066	0.14	0.29	0.60
o-Xylene	0.033	0.052	0.14	0.23
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
Naphthalene	0.083	Not Detected	0.44	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: IA-206EWA-062315

Lab ID#: 1507011A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070209sim	Date of Collection:	6/23/15 5:52:00 PM
Dil. Factor:	1.58	Date of Analysis:	7/2/15 02:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.079	0.77	0.25	2.5
Toluene	0.032	5.6	0.12	21
Ethyl Benzene	0.032	0.75	0.14	3.3
m,p-Xylene	0.063	2.5	0.27	11
o-Xylene	0.032	1.0	0.14	4.6
Methyl tert-butyl ether	0.16	1.8	0.57	6.5
Naphthalene	0.079	1.5	0.41	7.8

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	126	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: IA-233EWA-062315

Lab ID#: 1507011A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070210sim	Date of Collection:	6/23/15 6:00:00 PM
Dil. Factor:	1.50	Date of Analysis:	7/2/15 03:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.075	0.32	0.24	1.0
Toluene	0.030	4.5	0.11	17
Ethyl Benzene	0.030	2.3	0.13	10
m,p-Xylene	0.060	5.0	0.26	22
o-Xylene	0.030	1.2	0.13	5.2
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
Naphthalene	0.075	0.27	0.39	1.4

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: IA-216EWA-062315

Lab ID#: 1507011A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070211sim	Date of Collection: 6/23/15 5:49:00 PM
Dil. Factor:	1.59	Date of Analysis: 7/2/15 03:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.091	0.25	0.29
Toluene	0.032	1.2	0.12	4.7
Ethyl Benzene	0.032	0.25	0.14	1.1
m,p-Xylene	0.064	0.73	0.28	3.2
o-Xylene	0.032	0.38	0.14	1.7
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
Naphthalene	0.080	0.20	0.42	1.1

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: IA-212EWA-062315

Lab ID#: 1507011A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070212sim	Date of Collection:	6/23/15 5:48:00 PM
Dil. Factor:	1.57	Date of Analysis:	7/2/15 04:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.20	0.25	0.64
Toluene	0.031	1.9	0.12	7.1
Ethyl Benzene	0.031	0.20	0.14	0.88
m,p-Xylene	0.063	0.38	0.27	1.6
o-Xylene	0.031	0.17	0.14	0.73
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
Naphthalene	0.078	0.15	0.41	0.80

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: IA-146EWA-062315

Lab ID#: 1507011A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070213sim	Date of Collection:	6/23/15 6:03:00 PM
Dil. Factor:	1.64	Date of Analysis:	7/2/15 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	0.20	0.26	0.64
Toluene	0.033	2.1	0.12	7.9
Ethyl Benzene	0.033	0.98	0.14	4.3
m,p-Xylene	0.066	2.6	0.28	11
o-Xylene	0.033	0.85	0.14	3.7
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
Naphthalene	0.082	0.13	0.43	0.69

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: IA-113SES-062315

Lab ID#: 1507011A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070214sim	Date of Collection:	6/23/15 5:44:00 PM
Dil. Factor:	1.53	Date of Analysis:	7/2/15 05:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.076	0.092	0.24	0.30
Toluene	0.031	0.64	0.12	2.4
Ethyl Benzene	0.031	0.072	0.13	0.31
m,p-Xylene	0.061	0.15	0.26	0.66
o-Xylene	0.031	0.058	0.13	0.25
Methyl tert-butyl ether	0.15	Not Detected	0.55	Not Detected
Naphthalene	0.076	Not Detected	0.40	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: IA-140EWA-062315

Lab ID#: 1507011A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070215sim	Date of Collection:	6/23/15 5:56:00 PM
Dil. Factor:	1.60	Date of Analysis:	7/2/15 06:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.18	0.26	0.56
Toluene	0.032	0.76	0.12	2.9
Ethyl Benzene	0.032	0.13	0.14	0.56
m,p-Xylene	0.064	0.42	0.28	1.8
o-Xylene	0.032	0.17	0.14	0.73
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
Naphthalene	0.080	Not Detected	0.42	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: OA-05-062315

Lab ID#: 1507011A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070216sim	Date of Collection:	6/23/15 7:10:00 PM
Dil. Factor:	1.93	Date of Analysis:	7/2/15 06:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.096	0.13	0.31	0.42
Toluene	0.039	0.48	0.14	1.8
Ethyl Benzene	0.039	0.065	0.17	0.28
m,p-Xylene	0.077	0.23	0.34	1.0
o-Xylene	0.039	0.080	0.17	0.34
Methyl tert-butyl ether	0.19	Not Detected	0.70	Not Detected
Naphthalene	0.096	Not Detected	0.50	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	118	70-130
4-Bromofluorobenzene	109	70-130



Air Toxics

Client Sample ID: OA-01-062315

Lab ID#: 1507011A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070217sim	Date of Collection:	6/23/15 7:02:00 PM
Dil. Factor:	1.89	Date of Analysis:	7/2/15 07:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.094	0.24	0.30	0.77
Toluene	0.038	0.52	0.14	2.0
Ethyl Benzene	0.038	0.083	0.16	0.36
m,p-Xylene	0.076	0.30	0.33	1.3
o-Xylene	0.038	0.10	0.16	0.46
Methyl tert-butyl ether	0.19	Not Detected	0.68	Not Detected
Naphthalene	0.094	Not Detected	0.50	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: OA-02-062315

Lab ID#: 1507011A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070218sim	Date of Collection:	6/23/15 7:07:00 PM
Dil. Factor:	1.82	Date of Analysis:	7/2/15 08:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.091	0.14	0.29	0.43
Toluene	0.036	0.38	0.14	1.4
Ethyl Benzene	0.036	0.062	0.16	0.27
m,p-Xylene	0.073	0.22	0.32	0.96
o-Xylene	0.036	0.081	0.16	0.35
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
Naphthalene	0.091	Not Detected	0.48	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	112	70-130



Client Sample ID: OA-03-062315

Lab ID#: 1507011A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070219sim	Date of Collection:	6/23/15 7:05:00 PM
Dil. Factor:	1.84	Date of Analysis:	7/2/15 08:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.092	0.16	0.29	0.52
Toluene	0.037	0.36	0.14	1.4
Ethyl Benzene	0.037	0.060	0.16	0.26
m,p-Xylene	0.074	0.21	0.32	0.91
o-Xylene	0.037	0.074	0.16	0.32
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
Naphthalene	0.092	Not Detected	0.48	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: OA-04-062315

Lab ID#: 1507011A-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070220sim	Date of Collection:	6/23/15 7:18:00 PM
Dil. Factor:	1.45	Date of Analysis:	7/2/15 09:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.072	Not Detected	0.23	Not Detected
Toluene	0.029	0.11	0.11	0.40
Ethyl Benzene	0.029	Not Detected	0.12	Not Detected
m,p-Xylene	0.058	Not Detected	0.25	Not Detected
o-Xylene	0.029	Not Detected	0.12	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
Naphthalene	0.072	Not Detected	0.38	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: Lab Blank

Lab ID#: 1507011A-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070205sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/2/15 11:04 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Naphthalene	0.050	Not Detected	0.26	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507011A-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/15 08:46 AM

Compound	%Recovery
Benzene	85
Toluene	96
Ethyl Benzene	106
m,p-Xylene	94
o-Xylene	96
Methyl tert-butyl ether	118
Naphthalene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1507011A-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/15 09:26 AM

Compound	%Recovery	Method Limits
Benzene	80	70-130
Toluene	92	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	96	70-130
o-Xylene	101	70-130
Methyl tert-butyl ether	112	70-130
Naphthalene	72	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: LCSD

Lab ID#: 1507011A-17AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	v070204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/2/15 10:15 AM

Compound	%Recovery	Method Limits
Benzene	80	70-130
Toluene	93	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	98	70-130
o-Xylene	100	70-130
Methyl tert-butyl ether	112	70-130
Naphthalene	73	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	107	70-130

11/20/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:

Project #:

Workorder #: 1507011AR1

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507011AR1

Work Order Summary

CLIENT:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011	BILL TO:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011
PHONE:	425-485-5800	P.O. #	P010173831
FAX:		PROJECT #	
DATE RECEIVED:	07/01/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/14/2015		
DATE REISSUED:	11/20/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA-204EWA-062315	Modified TO-15 SIM	5.9 "Hg	5.2 psi
02A	IA-222EWA-062315	Modified TO-15 SIM	5.7 "Hg	5.1 psi
03A	IA-206EWA-062315	Modified TO-15 SIM	4.5 "Hg	5.1 psi
04A	IA-233EWA-062315	Modified TO-15 SIM	3.3 "Hg	5 psi
05A	IA-216EWA-062315	Modified TO-15 SIM	4.7 "Hg	5 psi
06A	IA-212EWA-062315	Modified TO-15 SIM	4.1 "Hg	5.2 psi
07A	IA-146EWA-062315	Modified TO-15 SIM	5.3 "Hg	5.1 psi
08A	IA-113SES-062315	Modified TO-15 SIM	3.7 "Hg	5 psi
09A	IA-140EWA-062315	Modified TO-15 SIM	4.7 "Hg	5.1 psi
10A	OA-05-062315	Modified TO-15 SIM	9 "Hg	5.2 psi
11A	OA-01-062315	Modified TO-15 SIM	8.8 "Hg	5 psi
12A	OA-02-062315	Modified TO-15 SIM	8 "Hg	5 psi
13A	OA-03-062315	Modified TO-15 SIM	8.4 "Hg	4.8 psi
14A	OA-04-062315	Modified TO-15 SIM	1.6 "Hg	5.4 psi
15A	Lab Blank	Modified TO-15 SIM	NA	NA
16A	CCV	Modified TO-15 SIM	NA	NA
17A	LCS	Modified TO-15 SIM	NA	NA
17AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 11/20/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9562
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Leidos (formerly SAIC)
Workorder# 1507011AR1

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on July 01, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Per client's request, the workorder was reissued on 11/20/15 for the following reasons:

1. to report estimated values for target compound hits that are below the reporting limit but greater than the method detection limit. All the canisters used for this project have been certified to the reporting limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

2. to report results in a different format.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-204EWA-062315	Date/Time Analyzed:	7/2/15 01:30 PM
Lab ID:	1507011AR1-01A	Dilution Factor:	1.69
Date/Time Collected:	6/23/15 03:57 PM	Instrument/Filename:	msdv.i / v070207simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.043	0.043	0.27	0.28
Ethyl Benzene	100-41-4	0.017	0.029	0.15	0.35
m,p-Xylene	108-38-3	0.026	0.029	0.29	1.1
Methyl tert-butyl ether	1634-04-4	0.032	0.032	0.61	Not Detected
Naphthalene	91-20-3	0.061	0.088	0.44	2.4
o-Xylene	95-47-6	0.014	0.029	0.15	0.35
Toluene	108-88-3	0.0074	0.025	0.13	2.1

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-222EWA-062315	Date/Time Analyzed:	7/2/15 02:05 PM
Lab ID:	1507011AR1-02A	Dilution Factor:	1.66
Date/Time Collected:	6/23/15 05:07 PM	Instrument/Filename:	msdv.i / v070208simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.042	0.042	0.26	0.27
Ethyl Benzene	100-41-4	0.017	0.029	0.14	0.23
m,p-Xylene	108-38-3	0.026	0.029	0.29	0.60
Methyl tert-butyl ether	1634-04-4	0.032	0.032	0.60	Not Detected
Naphthalene	91-20-3	0.060	0.087	0.44	Not Detected
o-Xylene	95-47-6	0.014	0.029	0.14	0.23
Toluene	108-88-3	0.0072	0.025	0.12	1.1

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-206EWA-062315	Date/Time Analyzed:	7/2/15 02:41 PM
Lab ID:	1507011AR1-03A	Dilution Factor:	1.58
Date/Time Collected:	6/23/15 05:52 PM	Instrument/Filename:	msdv.i / v070209simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.040	0.040	0.25	2.5
Ethyl Benzene	100-41-4	0.016	0.027	0.14	3.3
m,p-Xylene	108-38-3	0.024	0.027	0.27	11
Methyl tert-butyl ether	1634-04-4	0.030	0.030	0.57	6.5
Naphthalene	91-20-3	0.057	0.083	0.41	7.8
o-Xylene	95-47-6	0.013	0.027	0.14	4.6
Toluene	108-88-3	0.0069	0.024	0.12	21

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	126
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-233EWA-062315	Date/Time Analyzed:	7/2/15 03:17 PM
Lab ID:	1507011AR1-04A	Dilution Factor:	1.50
Date/Time Collected:	6/23/15 06:00 PM	Instrument/Filename:	msdv.i / v070210simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.038	0.038	0.24	1.0
Ethyl Benzene	100-41-4	0.016	0.026	0.13	10
m,p-Xylene	108-38-3	0.023	0.026	0.26	22
Methyl tert-butyl ether	1634-04-4	0.029	0.029	0.54	Not Detected
Naphthalene	91-20-3	0.054	0.079	0.39	1.4
o-Xylene	95-47-6	0.012	0.026	0.13	5.2
Toluene	108-88-3	0.0066	0.023	0.11	17

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	121
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-216EWA-062315	Date/Time Analyzed:	7/2/15 03:58 PM
Lab ID:	1507011AR1-05A	Dilution Factor:	1.59
Date/Time Collected:	6/23/15 05:49 PM	Instrument/Filename:	msdv.i / v070211simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.040	0.040	0.25	0.29
Ethyl Benzene	100-41-4	0.016	0.028	0.14	1.1
m,p-Xylene	108-38-3	0.024	0.028	0.28	3.2
Methyl tert-butyl ether	1634-04-4	0.030	0.030	0.57	0.032 J
Naphthalene	91-20-3	0.057	0.083	0.42	1.1
o-Xylene	95-47-6	0.013	0.028	0.14	1.7
Toluene	108-88-3	0.0069	0.024	0.12	4.7

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-212EWA-062315	Date/Time Analyzed:	7/2/15 04:34 PM
Lab ID:	1507011AR1-06A	Dilution Factor:	1.57
Date/Time Collected:	6/23/15 05:48 PM	Instrument/Filename:	msdv.i / v070212simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.040	0.040	0.25	0.64
Ethyl Benzene	100-41-4	0.016	0.027	0.14	0.88
m,p-Xylene	108-38-3	0.024	0.027	0.27	1.6
Methyl tert-butyl ether	1634-04-4	0.030	0.030	0.57	Not Detected
Naphthalene	91-20-3	0.057	0.082	0.41	0.80
o-Xylene	95-47-6	0.013	0.027	0.14	0.73
Toluene	108-88-3	0.0069	0.024	0.12	7.1

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-146EWA-062315	Date/Time Analyzed:	7/2/15 05:10 PM
Lab ID:	1507011AR1-07A	Dilution Factor:	1.64
Date/Time Collected:	6/23/15 06:03 PM	Instrument/Filename:	msdv.i / v070213simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.041	0.041	0.26	0.64
Ethyl Benzene	100-41-4	0.017	0.028	0.14	4.3
m,p-Xylene	108-38-3	0.025	0.028	0.28	11
Methyl tert-butyl ether	1634-04-4	0.032	0.032	0.59	Not Detected
Naphthalene	91-20-3	0.059	0.086	0.43	0.69
o-Xylene	95-47-6	0.014	0.028	0.14	3.7
Toluene	108-88-3	0.0072	0.025	0.12	7.9

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	112
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-113SES-062315	Date/Time Analyzed:	7/2/15 05:46 PM
Lab ID:	1507011AR1-08A	Dilution Factor:	1.53
Date/Time Collected:	6/23/15 05:44 PM	Instrument/Filename:	msdv.i / v070214simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.039	0.039	0.24	0.30
Ethyl Benzene	100-41-4	0.016	0.026	0.13	0.31
m,p-Xylene	108-38-3	0.024	0.026	0.26	0.66
Methyl tert-butyl ether	1634-04-4	0.029	0.029	0.55	Not Detected
Naphthalene	91-20-3	0.055	0.080	0.40	0.21 J
o-Xylene	95-47-6	0.013	0.026	0.13	0.25
Toluene	108-88-3	0.0067	0.023	0.12	2.4

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	121
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	IA-140EWA-062315	Date/Time Analyzed:	7/2/15 06:22 PM
Lab ID:	1507011AR1-09A	Dilution Factor:	1.60
Date/Time Collected:	6/23/15 05:56 PM	Instrument/Filename:	msdv.i / v070215simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.040	0.040	0.26	0.56
Ethyl Benzene	100-41-4	0.016	0.028	0.14	0.56
m,p-Xylene	108-38-3	0.024	0.028	0.28	1.8
Methyl tert-butyl ether	1634-04-4	0.031	0.031	0.58	Not Detected
Naphthalene	91-20-3	0.058	0.084	0.42	0.17 J
o-Xylene	95-47-6	0.013	0.028	0.14	0.73
Toluene	108-88-3	0.0070	0.024	0.12	2.9

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	OA-05-062315	Date/Time Analyzed:	7/2/15 06:58 PM
Lab ID:	1507011AR1-10A	Dilution Factor:	1.93
Date/Time Collected:	6/23/15 07:10 PM	Instrument/Filename:	msdv.i / v070216simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.049	0.049	0.31	0.42
Ethyl Benzene	100-41-4	0.020	0.034	0.17	0.28
m,p-Xylene	108-38-3	0.030	0.034	0.34	1.0
Methyl tert-butyl ether	1634-04-4	0.037	0.037	0.70	Not Detected
Naphthalene	91-20-3	0.070	0.10	0.50	0.081 J
o-Xylene	95-47-6	0.016	0.034	0.17	0.34
Toluene	108-88-3	0.0084	0.029	0.14	1.8

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	109
Toluene-d8	2037-26-5	70-130	118

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	OA-01-062315	Date/Time Analyzed:	7/2/15 07:33 PM
Lab ID:	1507011AR1-11A	Dilution Factor:	1.89
Date/Time Collected:	6/23/15 07:02 PM	Instrument/Filename:	msdv.i / v070217simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.048	0.048	0.30	0.77
Ethyl Benzene	100-41-4	0.020	0.033	0.16	0.36
m,p-Xylene	108-38-3	0.029	0.033	0.33	1.3
Methyl tert-butyl ether	1634-04-4	0.036	0.036	0.68	Not Detected
Naphthalene	91-20-3	0.068	0.099	0.50	Not Detected
o-Xylene	95-47-6	0.016	0.033	0.16	0.46
Toluene	108-88-3	0.0083	0.028	0.14	2.0

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	OA-02-062315	Date/Time Analyzed:	7/2/15 08:10 PM
Lab ID:	1507011AR1-12A	Dilution Factor:	1.82
Date/Time Collected:	6/23/15 07:07 PM	Instrument/Filename:	msdv.i / v070218simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.046	0.046	0.29	0.43
Ethyl Benzene	100-41-4	0.019	0.032	0.16	0.27
m,p-Xylene	108-38-3	0.028	0.032	0.32	0.96
Methyl tert-butyl ether	1634-04-4	0.035	0.035	0.66	Not Detected
Naphthalene	91-20-3	0.066	0.095	0.48	Not Detected
o-Xylene	95-47-6	0.015	0.032	0.16	0.35
Toluene	108-88-3	0.0080	0.027	0.14	1.4

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	112
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	OA-03-062315	Date/Time Analyzed:	7/2/15 08:46 PM
Lab ID:	1507011AR1-13A	Dilution Factor:	1.84
Date/Time Collected:	6/23/15 07:05 PM	Instrument/Filename:	msdv.i / v070219simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.046	0.046	0.29	0.52
Ethyl Benzene	100-41-4	0.019	0.032	0.16	0.26
m,p-Xylene	108-38-3	0.028	0.032	0.32	0.91
Methyl tert-butyl ether	1634-04-4	0.035	0.035	0.66	Not Detected
Naphthalene	91-20-3	0.066	0.096	0.48	Not Detected
o-Xylene	95-47-6	0.015	0.032	0.16	0.32
Toluene	108-88-3	0.0080	0.028	0.14	1.4

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	OA-04-062315	Date/Time Analyzed:	7/2/15 09:21 PM
Lab ID:	1507011AR1-14A	Dilution Factor:	1.45
Date/Time Collected:	6/23/15 07:18 PM	Instrument/Filename:	msdv.i / v070220simr1
Media:	6 Liter Summa Canister (SIM Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.037	0.037	0.23	0.14 J
Ethyl Benzene	100-41-4	0.015	0.025	0.12	0.071 J
m,p-Xylene	108-38-3	0.022	0.025	0.25	0.24 J
Methyl tert-butyl ether	1634-04-4	0.028	0.028	0.52	Not Detected
Naphthalene	91-20-3	0.052	0.076	0.38	Not Detected
o-Xylene	95-47-6	0.012	0.025	0.12	0.084 J
Toluene	108-88-3	0.0063	0.022	0.11	0.40

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	Lab Blank	Date/Time Analyzed:	7/2/15 11:04 AM
Lab ID:	1507011AR1-15A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070205simr1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.025	0.025	0.16	0.027 J
Ethyl Benzene	100-41-4	0.010	0.017	0.087	0.021 J
m,p-Xylene	108-38-3	0.015	0.017	0.17	0.035 J
Methyl tert-butyl ether	1634-04-4	0.019	0.019	0.36	Not Detected
Naphthalene	91-20-3	0.036	0.052	0.26	0.090 J
o-Xylene	95-47-6	0.0083	0.017	0.087	0.028 J
Toluene	108-88-3	0.0044	0.015	0.075	0.019 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	CCV	Date/Time Analyzed:	7/2/15 08:46 AM
Lab ID:	1507011AR1-16A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070202sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	85
Ethyl Benzene	100-41-4	106
m,p-Xylene	108-38-3	94
Methyl tert-butyl ether	1634-04-4	118
Naphthalene	91-20-3	82
o-Xylene	95-47-6	96
Toluene	108-88-3	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	115
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	101

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	LCS	Date/Time Analyzed:	7/2/15 09:26 AM
Lab ID:	1507011AR1-17A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070203sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	80
Ethyl Benzene	100-41-4	105
m,p-Xylene	108-38-3	96
Methyl tert-butyl ether	1634-04-4	112
Naphthalene	91-20-3	72
o-Xylene	95-47-6	101
Toluene	108-88-3	92

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	109
Toluene-d8	2037-26-5	70-130	101

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client ID:	LCSD	Date/Time Analyzed:	7/2/15 10:15 AM
Lab ID:	1507011AR1-17AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070204sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	80
Ethyl Benzene	100-41-4	106
m,p-Xylene	108-38-3	98
Methyl tert-butyl ether	1634-04-4	112
Naphthalene	91-20-3	73
o-Xylene	95-47-6	100
Toluene	108-88-3	93

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshirer@leidos.com
 Address 18912 North Creek Parkway City Bothell State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info: P.O. # _____ Project # _____ Project Name _____	Turn Around Time:	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: <u>N₂</u> <u>He</u>
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	IA-204EWA-062315	61247	6/23/15	1557	5cc N ₂ He	30	6.5		
02A	IA-222EWA-062315	33985	6/23/15	1709	↓ 6/29/2015	30	5.5		
03A	IA-206EWA-062315	9946	6/23/15	1752		30	5.0		
04A	IA-233EWA-062315	4359 46596	6/23/15	1800		29	4.0		
05A	IA-216EWA-062315	31430	6/23/15	1749		30	5.0		
06A	IA-212EWA-062315	33550	6/23/15	1748		30	5.5		
07A	IA-146EWA-062315	24226	6/23/15	1803		27.5	5.5		
08A	IA-113SES-062315	4346	6/23/15	1744		27.5	4.0		
09A	IA-140EWA-062315	24230	6/23/15	1756		28.0	5.5		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/29/2015 11:00</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>7/15 1030</u>	Notes: TO-15 (SIM) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>		<u>NA</u>	<u>Good</u>	Yes No <u>None</u>	<u>1507011</u>



Air Toxics

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire

Collected by: (Print and Sign) Russ Shropshire

Company Leidos Email shropshire@leidos.com

Address 18912 North Creek Parkway, Suite 101 City Bothell State WA Zip 98011

Phone 425-482-3323 Fax

Project Info: P.O. #, Project #, Project Name, Turn Around Time: Normal (checked), Rush, specify, Lab Use Only: Pressurized by, Date, Pressurization Gas: N2, He

Table with columns: Lab I.D., Field Sample I.D. (Location), Can #, Date of Collection, Time of Collection, Analyses Requested, Canister Pressure/Vacuum (Initial, Final, Receipt, Final (psi)). Rows 10A-14A with handwritten data and a large signature across the bottom.

Relinquished by: (signature) Date/Time, Received by: (signature) Date/Time, Notes: TO-15 (sim) - Report only BTEX, MTBE, and Naphthalene, ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium.

Lab Use Only: Shipper Name (UPS), Air Bill #, Temp (C) (Ma), Condition, Custody Seals Intact? (Yes, No, None), Work Order # (1507011)

7/22/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:
Project #:
Workorder #: 1507011B

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507011B

Work Order Summary

CLIENT: Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell, WA 98011

BILL TO: Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell, WA 98011

PHONE: 425-485-5800

P.O. # 300511.00.13.W.161A.0711.

FAX:

PROJECT #

DATE RECEIVED: 07/01/2015

CONTACT: Kelly Buettner

DATE COMPLETED: 07/11/2015

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA-204EWA-062315	Modified ASTM D-1946	5.9 "Hg	5.2 psi
02A	IA-222EWA-062315	Modified ASTM D-1946	5.7 "Hg	5.1 psi
03A	IA-206EWA-062315	Modified ASTM D-1946	4.5 "Hg	5.1 psi
04A	IA-233EWA-062315	Modified ASTM D-1946	3.3 "Hg	5 psi
05A	IA-216EWA-062315	Modified ASTM D-1946	4.7 "Hg	5 psi
06A	IA-212EWA-062315	Modified ASTM D-1946	4.1 "Hg	5.2 psi
07A	IA-146EWA-062315	Modified ASTM D-1946	5.3 "Hg	5.1 psi
08A	IA-113SES-062315	Modified ASTM D-1946	3.7 "Hg	5 psi
09A	IA-140EWA-062315	Modified ASTM D-1946	4.7 "Hg	5.1 psi
10A	OA-05-062315	Modified ASTM D-1946	9 "Hg	5.2 psi
11A	OA-01-062315	Modified ASTM D-1946	8.8 "Hg	5 psi
12A	OA-02-062315	Modified ASTM D-1946	8 "Hg	5 psi
13A	OA-03-062315	Modified ASTM D-1946	8.4 "Hg	4.8 psi
14A	OA-04-062315	Modified ASTM D-1946	1.6 "Hg	5.4 psi
15A	Lab Blank	Modified ASTM D-1946	NA	NA
15B	Lab Blank	Modified ASTM D-1946	NA	NA
16A	LCS	Modified ASTM D-1946	NA	NA
16AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Technical Director

DATE: 07/11/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
Leidos (formerly SAIC)
Workorder# 1507011B

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on July 01, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: IA-204EWA-062315

Lab ID#: 1507011B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	21
Nitrogen	0.17	79
Carbon Dioxide	0.017	0.052
Methane	0.00017	0.00021

Client Sample ID: IA-222EWA-062315

Lab ID#: 1507011B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	22
Nitrogen	0.17	78
Carbon Dioxide	0.017	0.065
Methane	0.00017	0.00020

Client Sample ID: IA-206EWA-062315

Lab ID#: 1507011B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.069
Methane	0.00016	0.00020

Client Sample ID: IA-233EWA-062315

Lab ID#: 1507011B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.15	21
Nitrogen	0.15	79
Carbon Dioxide	0.015	0.044
Methane	0.00015	0.00019

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: IA-216EWA-062315

Lab ID#: 1507011B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.048
Methane	0.00016	0.00021

Client Sample ID: IA-212EWA-062315

Lab ID#: 1507011B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	22
Nitrogen	0.16	78
Carbon Dioxide	0.016	0.069
Methane	0.00016	0.00022

Client Sample ID: IA-146EWA-062315

Lab ID#: 1507011B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.066
Methane	0.00016	0.00022

Client Sample ID: IA-113SES-062315

Lab ID#: 1507011B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.15	21
Nitrogen	0.15	79
Carbon Dioxide	0.015	0.056
Methane	0.00015	0.00019

Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: IA-140EWA-062315

Lab ID#: 1507011B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.053
Methane	0.00016	0.00020

Client Sample ID: OA-05-062315

Lab ID#: 1507011B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Nitrogen	0.19	79
Carbon Dioxide	0.019	0.039
Methane	0.00019	0.00022

Client Sample ID: OA-01-062315

Lab ID#: 1507011B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	22
Nitrogen	0.19	78
Carbon Dioxide	0.019	0.040
Methane	0.00019	0.00020

Client Sample ID: OA-02-062315

Lab ID#: 1507011B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Carbon Dioxide	0.018	0.039
Methane	0.00018	0.00019

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: OA-03-062315

Lab ID#: 1507011B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Carbon Dioxide	0.018	0.039
Methane	0.00018	0.00019

Client Sample ID: OA-04-062315

Lab ID#: 1507011B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.14	16
Nitrogen	0.14	84
Carbon Dioxide	0.014	0.030
Methane	0.00014	0.00014



Air Toxics

Client Sample ID: IA-204EWA-062315

Lab ID#: 1507011B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070305	Date of Collection: 6/23/15 3:57:00 PM
Dil. Factor:	1.69	Date of Analysis: 7/3/15 08:28 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	21
Nitrogen	0.17	79
Carbon Dioxide	0.017	0.052
Methane	0.00017	0.00021
Helium	0.084	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-222EWA-062315

Lab ID#: 1507011B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070306	Date of Collection: 6/23/15 5:07:00 PM
Dil. Factor:	1.66	Date of Analysis: 7/3/15 08:50 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	22
Nitrogen	0.17	78
Carbon Dioxide	0.017	0.065
Methane	0.00017	0.00020
Helium	0.083	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-206EWA-062315

Lab ID#: 1507011B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070307	Date of Collection:	6/23/15 5:52:00 PM
Dil. Factor:	1.58	Date of Analysis:	7/3/15 09:14 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.069
Methane	0.00016	0.00020
Helium	0.079	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-233EWA-062315

Lab ID#: 1507011B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070308	Date of Collection:	6/23/15 6:00:00 PM
Dil. Factor:	1.50	Date of Analysis:	7/3/15 09:36 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.15	21
Nitrogen	0.15	79
Carbon Dioxide	0.015	0.044
Methane	0.00015	0.00019
Helium	0.075	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-216EWA-062315

Lab ID#: 1507011B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070309	Date of Collection:	6/23/15 5:49:00 PM
Dil. Factor:	1.59	Date of Analysis:	7/3/15 09:58 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.048
Methane	0.00016	0.00021
Helium	0.080	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-212EWA-062315

Lab ID#: 1507011B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070310	Date of Collection: 6/23/15 5:48:00 PM
Dil. Factor:	1.57	Date of Analysis: 7/3/15 10:21 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	22
Nitrogen	0.16	78
Carbon Dioxide	0.016	0.069
Methane	0.00016	0.00022
Helium	0.078	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-146EWA-062315

Lab ID#: 1507011B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070311	Date of Collection: 6/23/15 6:03:00 PM
Dil. Factor:	1.64	Date of Analysis: 7/3/15 10:43 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.066
Methane	0.00016	0.00022
Helium	0.082	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-113SES-062315

Lab ID#: 1507011B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070312	Date of Collection:	6/23/15 5:44:00 PM
Dil. Factor:	1.53	Date of Analysis:	7/3/15 11:06 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.15	21
Nitrogen	0.15	79
Carbon Dioxide	0.015	0.056
Methane	0.00015	0.00019
Helium	0.076	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: IA-140EWA-062315

Lab ID#: 1507011B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070313	Date of Collection: 6/23/15 5:56:00 PM
Dil. Factor:	1.60	Date of Analysis: 7/3/15 11:29 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	21
Nitrogen	0.16	79
Carbon Dioxide	0.016	0.053
Methane	0.00016	0.00020
Helium	0.080	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: OA-05-062315

Lab ID#: 1507011B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070314	Date of Collection: 6/23/15 7:10:00 PM
Dil. Factor:	1.93	Date of Analysis: 7/3/15 11:54 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	21
Nitrogen	0.19	79
Carbon Dioxide	0.019	0.039
Methane	0.00019	0.00022
Helium	0.096	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: OA-01-062315

Lab ID#: 1507011B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070315	Date of Collection:	6/23/15 7:02:00 PM
Dil. Factor:	1.89	Date of Analysis:	7/3/15 12:18 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	22
Nitrogen	0.19	78
Carbon Dioxide	0.019	0.040
Methane	0.00019	0.00020
Helium	0.094	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: OA-02-062315

Lab ID#: 1507011B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070316	Date of Collection: 6/23/15 7:07:00 PM
Dil. Factor:	1.82	Date of Analysis: 7/3/15 12:41 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Carbon Dioxide	0.018	0.039
Methane	0.00018	0.00019
Helium	0.091	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: OA-03-062315

Lab ID#: 1507011B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070317	Date of Collection:	6/23/15 7:05:00 PM
Dil. Factor:	1.84	Date of Analysis:	7/3/15 01:08 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.18	21
Nitrogen	0.18	79
Carbon Dioxide	0.018	0.039
Methane	0.00018	0.00019
Helium	0.092	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: OA-04-062315

Lab ID#: 1507011B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070318	Date of Collection:	6/23/15 7:18:00 PM
Dil. Factor:	1.45	Date of Analysis:	7/3/15 01:32 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.14	16
Nitrogen	0.14	84
Carbon Dioxide	0.014	0.030
Methane	0.00014	0.00014
Helium	0.072	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507011B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070303	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/3/15 07:37 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507011B-15B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070304c	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/3/15 08:04 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507011B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/3/15 07:11 AM

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	91	85-115
Carbon Dioxide	97	85-115
Methane	104	85-115
Helium	102	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1507011B-16AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070319	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/3/15 01:57 PM

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Nitrogen	91	85-115
Carbon Dioxide	98	85-115
Methane	102	85-115
Helium	102	85-115

Container Type: NA - Not Applicable

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshire@leidos.com
 Address 18912 North Creek Parkway City Bothell State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info: P.O. # _____ Project # _____ Project Name _____	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	IA-204EWA-062315	61247	6/23/15	1557	5cc Notes	30	6.5		
02A	IA-222EWA-062315	33985	6/23/15	1709	↓ 6/29/2015	30	5.5		
03A	IA-206EWA-062315	9946	6/23/15	1752		30	5.0		
04A	IA-233EWA-062315	4359 46596	6/23/15	1800		29	4.0		
05A	IA-216EWA-062315	31430	6/23/15	1749		30	5.0		
06A	IA-212EWA-062315	33550	6/23/15	1748		30	5.5		
07A	IA-146EWA-062315	24226	6/23/15	1803		27.5	5.5		
08A	IA-113SES-062315	4346	6/23/15	1744		27.5	4.0		
09A	IA-140EWA-062315	24230	6/23/15	1756		28.0	5.5		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/29/2015 11:00</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>7/15 1030</u>	Notes: TO-15 (SIM) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>		<u>NA</u>	<u>Good</u>	Yes No <u>None</u>	<u>1507011</u>

Sample Transportation Notice

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Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshirer@leidos.com
 Address 18912 North Creek Parkway, Suite 101 City Bothell State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info: P.O. # _____ Project # _____ Project Name _____	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	<small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
10A	OA-05-062315	34247	6/23/15	1910	See Notes	30	7.5		
11A	OA-01-062315	24495	6/23/15	1902	↓	29	8.0		
12A	OA-02-062315	33911	6/23/15	1907		30	8.5		
13A	OA-03-062315	12685	6/23/15	1905		30	7.0		
14A	OA-04-062315	05412	6/23/15	1918		30	8.5		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/29/2015 11:00</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>7/15 1030</u>	Notes: TO-15 (sim) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium.
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>		<u>Ma</u>		Yes No <u>None</u>	<u>1507011</u>

7/21/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:
Project #:
Workorder #: 1507014A

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507014A

Work Order Summary

CLIENT:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011	BILL TO:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011
PHONE:	425-485-5800	P.O. #	300511.00.13.W.161A.0711.
FAX:		PROJECT #	
DATE RECEIVED:	07/01/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/15/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SSVP-01-062415	Modified TO-15	1 "Hg	15.1 psi
02A	SSVP-02-062415	Modified TO-15	1.8 "Hg	15.6 psi
03A	SSVP-03-062415	Modified TO-15	1.2 "Hg	15 psi
04A	SSVP-04-062415	Modified TO-15	0.2 "Hg	15 psi
05A	SSVP-05-062415	Modified TO-15	1.2 "Hg	14.9 psi
06A	SSVP-06-062515	Modified TO-15	0.6 "Hg	15.2 psi
07A	SSVP-07-062515	Modified TO-15	0.2 "Hg	14.9 psi
08A	SSVP-08-062515	Modified TO-15	0.4 "Hg	15 psi
09A	SSVP-09-062415	Modified TO-15	1.6 "Hg	15 psi
10A	SSVP-10-062515	Modified TO-15	1 "Hg	15.5 psi
11A	SSVP-11-062515	Modified TO-15	1.4 "Hg	15 psi
12A	SSVP-12-062415	Modified TO-15	1.4 "Hg	14.7 psi
13A	SSVP-13-062515	Modified TO-15	0.4 "Hg	14.8 psi
14A	SSVP-14-062515	Modified TO-15	1.2 "Hg	15.1 psi
15A	Duplicate-062415	Modified TO-15	1.4 "Hg	15 psi
16A	Duplicate-062515	Modified TO-15	0.6 "Hg	14.8 psi
17A	EB-062915	Modified TO-15	3.7 "Hg	15.3 psi
18A	Lab Blank	Modified TO-15	NA	NA
19A	CCV	Modified TO-15	NA	NA
20A	LCS	Modified TO-15	NA	NA
20AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 07/15/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
Leidos (formerly SAIC)
Workorder# 1507014A

Seventeen 1 Liter Summa Canister (100% Certified) samples were received on July 01, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSVP-01-062415

Lab ID#: 1507014A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	0.21	0.25	0.91	1.1

Client Sample ID: SSVP-02-062415

Lab ID#: 1507014A-02A

No Detections Were Found.

Client Sample ID: SSVP-03-062415

Lab ID#: 1507014A-03A

No Detections Were Found.

Client Sample ID: SSVP-04-062415

Lab ID#: 1507014A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.20	0.86	0.76	3.2
Ethyl Benzene	0.20	0.41	0.88	1.8
m,p-Xylene	0.20	2.7	0.88	12
o-Xylene	0.20	1.3	0.88	5.8
Naphthalene	1.0	2.5	5.3	13

Client Sample ID: SSVP-05-062415

Lab ID#: 1507014A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.21	0.35	0.79	1.3
m,p-Xylene	0.21	0.36	0.91	1.5
o-Xylene	0.21	0.26	0.91	1.1

Client Sample ID: SSVP-06-062515

Lab ID#: 1507014A-06A

No Detections Were Found.

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSVP-07-062515

Lab ID#: 1507014A-07A

No Detections Were Found.

Client Sample ID: SSVP-08-062515

Lab ID#: 1507014A-08A

No Detections Were Found.

Client Sample ID: SSVP-09-062415

Lab ID#: 1507014A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.21	0.28	0.81	1.1
m,p-Xylene	0.21	0.24	0.93	1.0

Client Sample ID: SSVP-10-062515

Lab ID#: 1507014A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.21	0.94	0.80	3.5
m,p-Xylene	0.21	0.24	0.92	1.0

Client Sample ID: SSVP-11-062515

Lab ID#: 1507014A-11A

No Detections Were Found.

Client Sample ID: SSVP-12-062415

Lab ID#: 1507014A-12A

No Detections Were Found.

Client Sample ID: SSVP-13-062515

Lab ID#: 1507014A-13A

No Detections Were Found.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSV-14-062515

Lab ID#: 1507014A-14A

No Detections Were Found.

Client Sample ID: Duplicate-062415

Lab ID#: 1507014A-15A

No Detections Were Found.

Client Sample ID: Duplicate-062515

Lab ID#: 1507014A-16A

No Detections Were Found.

Client Sample ID: EB-062915

Lab ID#: 1507014A-17A

No Detections Were Found.



Air Toxics

Client Sample ID: SSVP-01-062415

Lab ID#: 1507014A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070606	Date of Collection:	6/24/15 9:33:00 AM
Dil. Factor:	2.10	Date of Analysis:	7/6/15 01:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.67	Not Detected
Toluene	0.21	Not Detected	0.79	Not Detected
Ethyl Benzene	0.21	Not Detected	0.91	Not Detected
m,p-Xylene	0.21	0.25	0.91	1.1
o-Xylene	0.21	Not Detected	0.91	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.0	Not Detected	5.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: SSVP-02-062415

Lab ID#: 1507014A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070607	Date of Collection:	6/24/15 10:58:00 AM
Dil. Factor:	2.20	Date of Analysis:	7/6/15 01:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.22	Not Detected	0.70	Not Detected
Toluene	0.22	Not Detected	0.83	Not Detected
Ethyl Benzene	0.22	Not Detected	0.96	Not Detected
m,p-Xylene	0.22	Not Detected	0.96	Not Detected
o-Xylene	0.22	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.22	Not Detected	0.79	Not Detected
Naphthalene	1.1	Not Detected	5.8	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: SSVP-03-062415

Lab ID#: 1507014A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070608	Date of Collection:	6/24/15 11:56:00 AM
Dil. Factor:	2.11	Date of Analysis:	7/6/15 02:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.67	Not Detected
Toluene	0.21	Not Detected	0.80	Not Detected
Ethyl Benzene	0.21	Not Detected	0.92	Not Detected
m,p-Xylene	0.21	Not Detected	0.92	Not Detected
o-Xylene	0.21	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.0	Not Detected	5.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: SSVP-04-062415

Lab ID#: 1507014A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070609	Date of Collection:	6/24/15 7:30:00 PM
Dil. Factor:	2.03	Date of Analysis:	7/6/15 02:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Toluene	0.20	0.86	0.76	3.2
Ethyl Benzene	0.20	0.41	0.88	1.8
m,p-Xylene	0.20	2.7	0.88	12
o-Xylene	0.20	1.3	0.88	5.8
Methyl tert-butyl ether	0.20	Not Detected	0.73	Not Detected
Naphthalene	1.0	2.5	5.3	13

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: SSVP-05-062415

Lab ID#: 1507014A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070610	Date of Collection:	6/24/15 6:24:00 PM
Dil. Factor:	2.10	Date of Analysis:	7/6/15 03:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.67	Not Detected
Toluene	0.21	0.35	0.79	1.3
Ethyl Benzene	0.21	Not Detected	0.91	Not Detected
m,p-Xylene	0.21	0.36	0.91	1.5
o-Xylene	0.21	0.26	0.91	1.1
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.0	Not Detected	5.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: SSVP-06-062515

Lab ID#: 1507014A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070611	Date of Collection:	6/25/15 10:06:00 AM
Dil. Factor:	2.08	Date of Analysis:	7/6/15 04:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.66	Not Detected
Toluene	0.21	Not Detected	0.78	Not Detected
Ethyl Benzene	0.21	Not Detected	0.90	Not Detected
m,p-Xylene	0.21	Not Detected	0.90	Not Detected
o-Xylene	0.21	Not Detected	0.90	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.75	Not Detected
Naphthalene	1.0	Not Detected	5.4	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: SSVP-07-062515

Lab ID#: 1507014A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070612	Date of Collection:	6/25/15 1:02:00 PM
Dil. Factor:	2.03	Date of Analysis:	7/6/15 04:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Toluene	0.20	Not Detected	0.76	Not Detected
Ethyl Benzene	0.20	Not Detected	0.88	Not Detected
m,p-Xylene	0.20	Not Detected	0.88	Not Detected
o-Xylene	0.20	Not Detected	0.88	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.73	Not Detected
Naphthalene	1.0	Not Detected	5.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: SSVP-08-062515

Lab ID#: 1507014A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070613	Date of Collection:	6/25/15 12:15:00 PM
Dil. Factor:	2.05	Date of Analysis:	7/6/15 05:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Toluene	0.20	Not Detected	0.77	Not Detected
Ethyl Benzene	0.20	Not Detected	0.89	Not Detected
m,p-Xylene	0.20	Not Detected	0.89	Not Detected
o-Xylene	0.20	Not Detected	0.89	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.74	Not Detected
Naphthalene	1.0	Not Detected	5.4	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: SSVP-09-062415

Lab ID#: 1507014A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070614	Date of Collection:	6/24/15 2:44:00 PM
Dil. Factor:	2.14	Date of Analysis:	7/6/15 06:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.68	Not Detected
Toluene	0.21	0.28	0.81	1.1
Ethyl Benzene	0.21	Not Detected	0.93	Not Detected
m,p-Xylene	0.21	0.24	0.93	1.0
o-Xylene	0.21	Not Detected	0.93	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.77	Not Detected
Naphthalene	1.1	Not Detected	5.6	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: SSVP-10-062515

Lab ID#: 1507014A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070615	Date of Collection:	6/25/15 2:42:00 PM
Dil. Factor:	2.13	Date of Analysis:	7/6/15 06:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.68	Not Detected
Toluene	0.21	0.94	0.80	3.5
Ethyl Benzene	0.21	Not Detected	0.92	Not Detected
m,p-Xylene	0.21	0.24	0.92	1.0
o-Xylene	0.21	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.77	Not Detected
Naphthalene	1.1	Not Detected	5.6	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: SSVP-11-062515

Lab ID#: 1507014A-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070616	Date of Collection:	6/25/15 8:09:00 AM
Dil. Factor:	2.12	Date of Analysis:	7/6/15 07:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.68	Not Detected
Toluene	0.21	Not Detected	0.80	Not Detected
Ethyl Benzene	0.21	Not Detected	0.92	Not Detected
m,p-Xylene	0.21	Not Detected	0.92	Not Detected
o-Xylene	0.21	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.1	Not Detected	5.6	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: SSVP-12-062415

Lab ID#: 1507014A-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070617	Date of Collection:	6/24/15 4:43:00 PM
Dil. Factor:	2.10	Date of Analysis:	7/6/15 07:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.67	Not Detected
Toluene	0.21	Not Detected	0.79	Not Detected
Ethyl Benzene	0.21	Not Detected	0.91	Not Detected
m,p-Xylene	0.21	Not Detected	0.91	Not Detected
o-Xylene	0.21	Not Detected	0.91	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.0	Not Detected	5.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: SSVP-13-062515

Lab ID#: 1507014A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070618	Date of Collection:	6/25/15 4:11:00 PM
Dil. Factor:	2.03	Date of Analysis:	7/6/15 08:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Toluene	0.20	Not Detected	0.76	Not Detected
Ethyl Benzene	0.20	Not Detected	0.88	Not Detected
m,p-Xylene	0.20	Not Detected	0.88	Not Detected
o-Xylene	0.20	Not Detected	0.88	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.73	Not Detected
Naphthalene	1.0	Not Detected	5.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: SSVP-14-062515

Lab ID#: 1507014A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070619	Date of Collection:	6/25/15 4:43:00 PM
Dil. Factor:	2.11	Date of Analysis:	7/6/15 09:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.67	Not Detected
Toluene	0.21	Not Detected	0.80	Not Detected
Ethyl Benzene	0.21	Not Detected	0.92	Not Detected
m,p-Xylene	0.21	Not Detected	0.92	Not Detected
o-Xylene	0.21	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.0	Not Detected	5.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: Duplicate-062415

Lab ID#: 1507014A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070620	Date of Collection:	6/24/15
Dil. Factor:	2.12	Date of Analysis:	7/6/15 09:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.21	Not Detected	0.68	Not Detected
Toluene	0.21	Not Detected	0.80	Not Detected
Ethyl Benzene	0.21	Not Detected	0.92	Not Detected
m,p-Xylene	0.21	Not Detected	0.92	Not Detected
o-Xylene	0.21	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
Naphthalene	1.1	Not Detected	5.6	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: Duplicate-062515

Lab ID#: 1507014A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070621	Date of Collection:	6/25/15
Dil. Factor:	2.05	Date of Analysis:	7/7/15 08:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.20	Not Detected	0.65	Not Detected
Toluene	0.20	Not Detected	0.77	Not Detected
Ethyl Benzene	0.20	Not Detected	0.89	Not Detected
m,p-Xylene	0.20	Not Detected	0.89	Not Detected
o-Xylene	0.20	Not Detected	0.89	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.74	Not Detected
Naphthalene	1.0	Not Detected	5.4	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: EB-062915

Lab ID#: 1507014A-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070622	Date of Collection:	6/29/15 2:59:00 PM
Dil. Factor:	2.32	Date of Analysis:	7/7/15 08:57 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.23	Not Detected	0.74	Not Detected
Toluene	0.23	Not Detected	0.87	Not Detected
Ethyl Benzene	0.23	Not Detected	1.0	Not Detected
m,p-Xylene	0.23	Not Detected	1.0	Not Detected
o-Xylene	0.23	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.23	Not Detected	0.84	Not Detected
Naphthalene	1.2	Not Detected	6.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507014A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070605	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/6/15 11:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.10	Not Detected	0.32	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507014A-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/6/15 09:32 AM

Compound	%Recovery
Benzene	94
Toluene	100
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	104
Methyl tert-butyl ether	107
Naphthalene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507014A-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/6/15 10:24 AM

Compound	%Recovery	Method Limits
Benzene	92	70-130
Toluene	94	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	90	70-130
o-Xylene	93	70-130
Methyl tert-butyl ether	106	70-130
Naphthalene	69	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1507014A-20AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v070604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/6/15 11:05 AM

Compound	%Recovery	Method Limits
Benzene	92	70-130
Toluene	94	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	100	70-130
o-Xylene	104	70-130
Methyl tert-butyl ether	103	70-130
Naphthalene	85	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130

11/20/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:

Project #:

Workorder #: 1507014AR1

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507014AR1

Work Order Summary

CLIENT:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011	BILL TO:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011
PHONE:	425-485-5800	P.O. #	P010173831
FAX:		PROJECT #	
DATE RECEIVED:	07/01/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/15/2015		
DATE REISSUED:	11/20/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SSVP-01-062415	Modified TO-15	1 "Hg	15.1 psi
02A	SSVP-02-062415	Modified TO-15	1.8 "Hg	15.6 psi
03A	SSVP-03-062415	Modified TO-15	1.2 "Hg	15 psi
04A	SSVP-04-062415	Modified TO-15	0.2 "Hg	15 psi
05A	SSVP-05-062415	Modified TO-15	1.2 "Hg	14.9 psi
06A	SSVP-06-062515	Modified TO-15	0.6 "Hg	15.2 psi
07A	SSVP-07-062515	Modified TO-15	0.2 "Hg	14.9 psi
08A	SSVP-08-062515	Modified TO-15	0.4 "Hg	15 psi
09A	SSVP-09-062415	Modified TO-15	1.6 "Hg	15 psi
10A	SSVP-10-062515	Modified TO-15	1 "Hg	15.5 psi
11A	SSVP-11-062515	Modified TO-15	1.4 "Hg	15 psi
12A	SSVP-12-062415	Modified TO-15	1.4 "Hg	14.7 psi
13A	SSVP-13-062515	Modified TO-15	0.4 "Hg	14.8 psi
14A	SSVP-14-062515	Modified TO-15	1.2 "Hg	15.1 psi
15A	Duplicate-062415	Modified TO-15	1.4 "Hg	15 psi
16A	Duplicate-062515	Modified TO-15	0.6 "Hg	14.8 psi
17A	EB-062915	Modified TO-15	3.7 "Hg	15.3 psi
18A	Lab Blank	Modified TO-15	NA	NA
19A	CCV	Modified TO-15	NA	NA
20A	LCS	Modified TO-15	NA	NA
20AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 11/20/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9562
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Leidos (formerly SAIC)
Workorder# 1507014AR1

Seventeen 1 Liter Summa Canister (100% Certified) samples were received on July 01, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Per client's request, the workorder was reissued on 11/20/15 for the following reasons:

1. to report estimated values for target compound hits that are below the reporting limit but greater than the method detection limit. All the canisters used for this project have been certified to the reporting limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

2. to report results in a different format.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-01-062415	Date/Time Analyzed:	7/6/15 01:00 PM
Lab ID:	1507014AR1-01A	Dilution Factor:	2.10
Date/Time Collected:	6/24/15 09:33 AM	Instrument/Filename:	msdv.i / v070606r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.67	0.19 J
Ethyl Benzene	100-41-4	0.32	0.55	0.91	0.48 J
m,p-Xylene	108-38-3	0.22	0.55	0.91	1.1
Methyl tert-butyl ether	1634-04-4	0.19	0.45	0.76	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.5	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.91	0.24 J
Toluene	108-88-3	0.096	0.47	0.79	0.70 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-02-062415	Date/Time Analyzed:	7/6/15 01:47 PM
Lab ID:	1507014AR1-02A	Dilution Factor:	2.20
Date/Time Collected:	6/24/15 10:58 AM	Instrument/Filename:	msdv.i / v070607r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.18	0.42	0.70	0.22 J
Ethyl Benzene	100-41-4	0.34	0.57	0.96	Not Detected
m,p-Xylene	108-38-3	0.23	0.57	0.96	Not Detected
Methyl tert-butyl ether	1634-04-4	0.20	0.48	0.79	Not Detected
Naphthalene	91-20-3	0.72	4.6	5.8	Not Detected
o-Xylene	95-47-6	0.19	0.57	0.96	Not Detected
Toluene	108-88-3	0.10	0.50	0.83	0.18 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	95

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-03-062415	Date/Time Analyzed:	7/6/15 02:22 PM
Lab ID:	1507014AR1-03A	Dilution Factor:	2.11
Date/Time Collected:	6/24/15 11:56 AM	Instrument/Filename:	msdv.i / v070608r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.67	Not Detected
Ethyl Benzene	100-41-4	0.33	0.55	0.92	Not Detected
m,p-Xylene	108-38-3	0.22	0.55	0.92	Not Detected
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.76	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.5	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.92	Not Detected
Toluene	108-88-3	0.097	0.48	0.80	0.12 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-04-062415	Date/Time Analyzed:	7/6/15 02:58 PM
Lab ID:	1507014AR1-04A	Dilution Factor:	2.03
Date/Time Collected:	6/24/15 07:30 PM	Instrument/Filename:	msdv.i / v070609r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.16	0.39	0.65	0.24 J
Ethyl Benzene	100-41-4	0.31	0.53	0.88	1.8
m,p-Xylene	108-38-3	0.21	0.53	0.88	12
Methyl tert-butyl ether	1634-04-4	0.18	0.44	0.73	Not Detected
Naphthalene	91-20-3	0.66	4.2	5.3	13
o-Xylene	95-47-6	0.18	0.53	0.88	5.8
Toluene	108-88-3	0.093	0.46	0.76	3.2

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	95

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-05-062415	Date/Time Analyzed:	7/6/15 03:33 PM
Lab ID:	1507014AR1-05A	Dilution Factor:	2.10
Date/Time Collected:	6/24/15 06:24 PM	Instrument/Filename:	msdv.i / v070610r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.67	0.19 J
Ethyl Benzene	100-41-4	0.32	0.55	0.91	0.52 J
m,p-Xylene	108-38-3	0.22	0.55	0.91	1.5
Methyl tert-butyl ether	1634-04-4	0.19	0.45	0.76	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.5	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.91	1.1
Toluene	108-88-3	0.096	0.47	0.79	1.3

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	93

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-06-062515	Date/Time Analyzed:	7/6/15 04:09 PM
Lab ID:	1507014AR1-06A	Dilution Factor:	2.08
Date/Time Collected:	6/25/15 10:06 AM	Instrument/Filename:	msdv.i / v070611r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.66	Not Detected
Ethyl Benzene	100-41-4	0.32	0.54	0.90	Not Detected
m,p-Xylene	108-38-3	0.22	0.54	0.90	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	0.45	0.75	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.4	Not Detected
o-Xylene	95-47-6	0.18	0.54	0.90	Not Detected
Toluene	108-88-3	0.096	0.47	0.78	0.37 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	94

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-07-062515	Date/Time Analyzed:	7/6/15 04:47 PM
Lab ID:	1507014AR1-07A	Dilution Factor:	2.03
Date/Time Collected:	6/25/15 01:02 PM	Instrument/Filename:	msdv.i / v070612r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.16	0.39	0.65	Not Detected
Ethyl Benzene	100-41-4	0.31	0.53	0.88	Not Detected
m,p-Xylene	108-38-3	0.21	0.53	0.88	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	0.44	0.73	Not Detected
Naphthalene	91-20-3	0.66	4.2	5.3	Not Detected
o-Xylene	95-47-6	0.18	0.53	0.88	Not Detected
Toluene	108-88-3	0.093	0.46	0.76	0.59 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-08-062515	Date/Time Analyzed:	7/6/15 05:25 PM
Lab ID:	1507014AR1-08A	Dilution Factor:	2.05
Date/Time Collected:	6/25/15 12:15 PM	Instrument/Filename:	msdv.i / v070613r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.39	0.65	Not Detected
Ethyl Benzene	100-41-4	0.32	0.53	0.89	Not Detected
m,p-Xylene	108-38-3	0.22	0.53	0.89	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	0.44	0.74	Not Detected
Naphthalene	91-20-3	0.67	4.3	5.4	Not Detected
o-Xylene	95-47-6	0.18	0.53	0.89	Not Detected
Toluene	108-88-3	0.094	0.46	0.77	0.21 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	115
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	98

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-09-062415	Date/Time Analyzed:	7/6/15 06:01 PM
Lab ID:	1507014AR1-09A	Dilution Factor:	2.14
Date/Time Collected:	6/24/15 02:44 PM	Instrument/Filename:	msdv.i / v070614r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.41	0.68	0.19 J
Ethyl Benzene	100-41-4	0.33	0.56	0.93	0.57 J
m,p-Xylene	108-38-3	0.22	0.56	0.93	1.0
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.77	Not Detected
Naphthalene	91-20-3	0.70	4.5	5.6	1.8 J
o-Xylene	95-47-6	0.18	0.56	0.93	0.43 J
Toluene	108-88-3	0.098	0.48	0.81	1.1

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-10-062515	Date/Time Analyzed:	7/6/15 06:40 PM
Lab ID:	1507014AR1-10A	Dilution Factor:	2.13
Date/Time Collected:	6/25/15 02:42 PM	Instrument/Filename:	msdv.i / v070615r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.41	0.68	0.24 J
Ethyl Benzene	100-41-4	0.33	0.55	0.92	0.40 J
m,p-Xylene	108-38-3	0.22	0.55	0.92	1.0
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.77	Not Detected
Naphthalene	91-20-3	0.69	4.5	5.6	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.92	0.48 J
Toluene	108-88-3	0.098	0.48	0.80	3.5

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-11-062515	Date/Time Analyzed:	7/6/15 07:19 PM
Lab ID:	1507014AR1-11A	Dilution Factor:	2.12
Date/Time Collected:	6/25/15 08:09 AM	Instrument/Filename:	msdv.i / v070616r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.41	0.68	0.30 J
Ethyl Benzene	100-41-4	0.33	0.55	0.92	Not Detected
m,p-Xylene	108-38-3	0.22	0.55	0.92	Not Detected
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.76	Not Detected
Naphthalene	91-20-3	0.69	4.4	5.6	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.92	Not Detected
Toluene	108-88-3	0.097	0.48	0.80	0.28 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-12-062415	Date/Time Analyzed:	7/6/15 07:59 PM
Lab ID:	1507014AR1-12A	Dilution Factor:	2.10
Date/Time Collected:	6/24/15 04:43 PM	Instrument/Filename:	msdv.i / v070617r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.67	Not Detected
Ethyl Benzene	100-41-4	0.32	0.55	0.91	Not Detected
m,p-Xylene	108-38-3	0.22	0.55	0.91	Not Detected
Methyl tert-butyl ether	1634-04-4	0.19	0.45	0.76	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.5	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.91	Not Detected
Toluene	108-88-3	0.096	0.47	0.79	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-13-062515	Date/Time Analyzed:	7/6/15 08:39 PM
Lab ID:	1507014AR1-13A	Dilution Factor:	2.03
Date/Time Collected:	6/25/15 04:11 PM	Instrument/Filename:	msdv.i / v070618r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.16	0.39	0.65	0.32 J
Ethyl Benzene	100-41-4	0.31	0.53	0.88	Not Detected
m,p-Xylene	108-38-3	0.21	0.53	0.88	0.46 J
Methyl tert-butyl ether	1634-04-4	0.18	0.44	0.73	Not Detected
Naphthalene	91-20-3	0.66	4.2	5.3	Not Detected
o-Xylene	95-47-6	0.18	0.53	0.88	Not Detected
Toluene	108-88-3	0.093	0.46	0.76	0.70 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	SSVP-14-062515	Date/Time Analyzed:	7/6/15 09:14 PM
Lab ID:	1507014AR1-14A	Dilution Factor:	2.11
Date/Time Collected:	6/25/15 04:43 PM	Instrument/Filename:	msdv.i / v070619r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.40	0.67	0.20 J
Ethyl Benzene	100-41-4	0.33	0.55	0.92	Not Detected
m,p-Xylene	108-38-3	0.22	0.55	0.92	Not Detected
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.76	Not Detected
Naphthalene	91-20-3	0.68	4.4	5.5	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.92	Not Detected
Toluene	108-88-3	0.097	0.48	0.80	0.29 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	113
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	Duplicate-062415	Date/Time Analyzed:	7/6/15 09:50 PM
Lab ID:	1507014AR1-15A	Dilution Factor:	2.12
Date/Time Collected:	6/24/15 12:00 AM	Instrument/Filename:	msdv.i / v070620r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.41	0.68	Not Detected
Ethyl Benzene	100-41-4	0.33	0.55	0.92	Not Detected
m,p-Xylene	108-38-3	0.22	0.55	0.92	Not Detected
Methyl tert-butyl ether	1634-04-4	0.19	0.46	0.76	Not Detected
Naphthalene	91-20-3	0.69	4.4	5.6	Not Detected
o-Xylene	95-47-6	0.18	0.55	0.92	Not Detected
Toluene	108-88-3	0.097	0.48	0.80	0.11 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	113
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	94

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	Duplicate-062515	Date/Time Analyzed:	7/7/15 08:22 AM
Lab ID:	1507014AR1-16A	Dilution Factor:	2.05
Date/Time Collected:	6/25/15 12:00 AM	Instrument/Filename:	msdv.i / v070621r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.17	0.39	0.65	0.30 J
Ethyl Benzene	100-41-4	0.32	0.53	0.89	Not Detected
m,p-Xylene	108-38-3	0.22	0.53	0.89	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	0.44	0.74	Not Detected
Naphthalene	91-20-3	0.67	4.3	5.4	Not Detected
o-Xylene	95-47-6	0.18	0.53	0.89	Not Detected
Toluene	108-88-3	0.094	0.46	0.77	0.26 J

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	97

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	EB-062915	Date/Time Analyzed:	7/7/15 08:57 AM
Lab ID:	1507014AR1-17A	Dilution Factor:	2.32
Date/Time Collected:	6/29/15 02:59 PM	Instrument/Filename:	msdv.i / v070622r1
Media:	1 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.19	0.44	0.74	Not Detected
Ethyl Benzene	100-41-4	0.36	0.60	1.0	Not Detected
m,p-Xylene	108-38-3	0.24	0.60	1.0	Not Detected
Methyl tert-butyl ether	1634-04-4	0.21	0.50	0.84	Not Detected
Naphthalene	91-20-3	0.75	4.9	6.1	Not Detected
o-Xylene	95-47-6	0.20	0.60	1.0	Not Detected
Toluene	108-88-3	0.11	0.52	0.87	0.30 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	95

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	Lab Blank	Date/Time Analyzed:	7/6/15 11:56 AM
Lab ID:	1507014AR1-18A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070605r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.081	0.19	0.32	Not Detected
Ethyl Benzene	100-41-4	0.15	0.26	0.43	Not Detected
m,p-Xylene	108-38-3	0.10	0.26	0.43	Not Detected
Methyl tert-butyl ether	1634-04-4	0.089	0.22	0.36	Not Detected
Naphthalene	91-20-3	0.32	2.1	2.6	Not Detected
o-Xylene	95-47-6	0.087	0.26	0.43	Not Detected
Toluene	108-88-3	0.046	0.23	0.38	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	CCV	Date/Time Analyzed:	7/6/15 09:32 AM
Lab ID:	1507014AR1-19A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070602
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	94
Ethyl Benzene	100-41-4	103
m,p-Xylene	108-38-3	103
Methyl tert-butyl ether	1634-04-4	107
Naphthalene	91-20-3	94
o-Xylene	95-47-6	104
Toluene	108-88-3	100

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	107
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	96

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	LCS	Date/Time Analyzed:	7/6/15 10:24 AM
Lab ID:	1507014AR1-20A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070603
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	92
Ethyl Benzene	100-41-4	97
m,p-Xylene	108-38-3	90
Methyl tert-butyl ether	1634-04-4	106
Naphthalene	91-20-3	69
o-Xylene	95-47-6	93
Toluene	108-88-3	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	97

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client ID:	LCSD	Date/Time Analyzed:	7/6/15 11:05 AM
Lab ID:	1507014AR1-20AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msdv.i / v070604
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	92
Ethyl Benzene	100-41-4	99
m,p-Xylene	108-38-3	100
Methyl tert-butyl ether	1634-04-4	103
Naphthalene	91-20-3	85
o-Xylene	95-47-6	104
Toluene	108-88-3	94

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	97

* % Recovery is calculated using unrounded analytical results.

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshire@leidos.com
 Address 18912 North Creek Pkwy, Suite 101 City Botheil State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info: P.O. # _____ Project # _____ Project Name _____	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	Lab Use Only Pressurized by: Date: Pressurization Gas: N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	55VP-01-062415	3040	6/24/2015	09:33	See Notes	30"	<1"		
02A	55VP-02-062415	3046	6/24/2015	10:58		30"	<1"		
03A	55VP-03-062415	121577	6/24/2015	11:56		30"	<1"		
04A	55VP-04-062415	33715	6/24/2015	19:30		30"	<1"		
05A	55VP-05-062415	36487	6/24/2015	18:24		30"	1.5"		
06A	55VP-06-062515	121689	6/25/2015	10:06		30"	1"		
07A	55VP-07-062515	122726	6/25/2015	13:02		30"	1"		
08A	55VP-08-062515	37676	6/25/2015	12:15		30"	1.5"		
09A	55VP-09-062415	34099	6/24/2015	14:44		30"	<1"		
10A	55VP-10-062515	31762	6/25/2015	14:42		27.75"	1"		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/30/2015 12:00</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>10:30 07/01/2015</u>	Notes: T0-15 (Low Level) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - Oxygen, carbon dioxide, methane, nitrogen, helium.
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>		<u>N/A</u>	<u>Good</u>	Yes No <u>None</u>	<u>1507014</u>

Sample Transportation Notice

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Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshire@leidos.com
 Address 18912 North Creek Pkwy, Suite 161 City Bellevue State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info:	P.O. # _____ Project # _____ Project Name _____	Turn Around Time:	Lab Use Only
		<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush specify _____	Pressurized by: _____ Date: _____ Pressurization Gas: <u>N₂</u> <u>He</u>

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
11A	55VP-11-062515	31758	6/25/2015	08:09	See Notes	30"	1"		
12A	55VP-12-062415	34087	6/24/2015	16:43	↓	30"	<1"		
13A	55VP-13-062515	11835	6/25/2015	16:11 R35 16:10:30		30"	1"		
14A	55VP-14-062515	34581	6/25/2015	16:43		30"	1"		
15A	Duplicate - 062415	35554	6/24/2015	—		30"	<1"		
16A	Duplicate - 062515	37784	6/25/2015	—		30"	1"		
17A	EB-062915	1043	6/29/2015	1459					

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/30/2015 12:00</u>	Received by: (signature) <u>Candice McCreary EMT</u> Date/Time <u>10:30 07/01/2015</u>	Notes: T0-15 (Low Level) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium.
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		N/A	Good	Yes No <u>None</u>	1507014

7/22/2015

Mr. Russ Shropshire
Leidos (formerly SAIC)
18912 Northcreek Parkway
Suite 101
Bothell WA 98011

Project Name:
Project #:
Workorder #: 1507014B

Dear Mr. Russ Shropshire

The following report includes the data for the above referenced project for sample(s) received on 7/1/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1507014B

Work Order Summary

CLIENT:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011	BILL TO:	Mr. Russ Shropshire Leidos (formerly SAIC) 18912 Northcreek Parkway Suite 101 Bothell, WA 98011
PHONE:	425-485-5800	P.O. #	300511.00.13.W.161A.0711.
FAX:		PROJECT #	
DATE RECEIVED:	07/01/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/11/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SSVP-01-062415	Modified ASTM D-1946	1 "Hg	15.1 psi
02A	SSVP-02-062415	Modified ASTM D-1946	1.8 "Hg	15.6 psi
03A	SSVP-03-062415	Modified ASTM D-1946	1.2 "Hg	15 psi
04A	SSVP-04-062415	Modified ASTM D-1946	0.2 "Hg	15 psi
05A	SSVP-05-062415	Modified ASTM D-1946	1.2 "Hg	14.9 psi
06A	SSVP-06-062515	Modified ASTM D-1946	0.6 "Hg	15.2 psi
07A	SSVP-07-062515	Modified ASTM D-1946	0.2 "Hg	14.9 psi
08A	SSVP-08-062515	Modified ASTM D-1946	0.4 "Hg	15 psi
09A	SSVP-09-062415	Modified ASTM D-1946	1.6 "Hg	15 psi
10A	SSVP-10-062515	Modified ASTM D-1946	1 "Hg	15.5 psi
11A	SSVP-11-062515	Modified ASTM D-1946	1.4 "Hg	15 psi
12A	SSVP-12-062415	Modified ASTM D-1946	1.4 "Hg	14.7 psi
13A	SSVP-13-062515	Modified ASTM D-1946	0.4 "Hg	14.8 psi
14A	SSVP-14-062515	Modified ASTM D-1946	1.2 "Hg	15.1 psi
15A	Duplicate-062415	Modified ASTM D-1946	1.4 "Hg	15 psi
16A	Duplicate-062515	Modified ASTM D-1946	0.6 "Hg	14.8 psi
17A	EB-062915	Modified ASTM D-1946	3.7 "Hg	15.3 psi
18A	Lab Blank	Modified ASTM D-1946	NA	NA
18B	Lab Blank	Modified ASTM D-1946	NA	NA
19A	LCS	Modified ASTM D-1946	NA	NA
19AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: 

DATE: 07/11/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
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LABORATORY NARRATIVE
Modified ASTM D-1946
Leidos (formerly SAIC)
Workorder# 1507014B

Seventeen 1 Liter Summa Canister (100% Certified) samples were received on July 01, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: SSVP-01-062415

Lab ID#: 1507014B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	78
Carbon Dioxide	0.021	0.32
Helium	0.10	0.29

Client Sample ID: SSVP-02-062415

Lab ID#: 1507014B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	78
Carbon Dioxide	0.022	0.56

Client Sample ID: SSVP-03-062415

Lab ID#: 1507014B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	1.0

Client Sample ID: SSVP-04-062415

Lab ID#: 1507014B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	78
Carbon Dioxide	0.020	0.14
Helium	0.10	0.32

Client Sample ID: SSVP-05-062415

Lab ID#: 1507014B-05A

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: SSVP-05-062415

Lab ID#: 1507014B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	78
Carbon Dioxide	0.021	0.050
Helium	0.10	0.67

Client Sample ID: SSVP-06-062515

Lab ID#: 1507014B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.18
Helium	0.10	0.12

Client Sample ID: SSVP-07-062515

Lab ID#: 1507014B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	78
Carbon Dioxide	0.020	0.088
Helium	0.10	0.62

Client Sample ID: SSVP-08-062515

Lab ID#: 1507014B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.073
Helium	0.10	0.25

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SSV-09-062415

Lab ID#: 1507014B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.23

Client Sample ID: SSV-10-062515

Lab ID#: 1507014B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.10

Client Sample ID: SSV-11-062515

Lab ID#: 1507014B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.69
Helium	0.11	0.20

Client Sample ID: SSV-12-062415

Lab ID#: 1507014B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.57

Client Sample ID: SSV-13-062515

Lab ID#: 1507014B-13A

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: SSV-13-062515

Lab ID#: 1507014B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.087

Client Sample ID: SSV-14-062515

Lab ID#: 1507014B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.12
Helium	0.10	0.19

Client Sample ID: Duplicate-062415

Lab ID#: 1507014B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.57

Client Sample ID: Duplicate-062515

Lab ID#: 1507014B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.18
Helium	0.10	0.12

Client Sample ID: EB-062915

Lab ID#: 1507014B-17A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: EB-062915

Lab ID#: 1507014B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.1
Nitrogen	0.23	98
Helium	0.12	0.33



Air Toxics

Client Sample ID: SSVP-01-062415

Lab ID#: 1507014B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070805	Date of Collection:	6/24/15 9:33:00 AM
Dil. Factor:	2.10	Date of Analysis:	7/8/15 09:38 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	78
Carbon Dioxide	0.021	0.32
Methane	0.00021	Not Detected
Helium	0.10	0.29

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-02-062415

Lab ID#: 1507014B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070806	Date of Collection:	6/24/15 10:58:00 AM
Dil. Factor:	2.20	Date of Analysis:	7/8/15 10:02 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	78
Carbon Dioxide	0.022	0.56
Methane	0.00022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-03-062415

Lab ID#: 1507014B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070807	Date of Collection:	6/24/15 11:56:00 AM
Dil. Factor:	2.11	Date of Analysis:	7/8/15 10:29 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	1.0
Methane	0.00021	Not Detected
Helium	0.10	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-04-062415

Lab ID#: 1507014B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070808	Date of Collection:	6/24/15 7:30:00 PM
Dil. Factor:	2.03	Date of Analysis:	7/8/15 10:54 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	78
Carbon Dioxide	0.020	0.14
Methane	0.00020	Not Detected
Helium	0.10	0.32

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-05-062415

Lab ID#: 1507014B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070809	Date of Collection:	6/24/15 6:24:00 PM
Dil. Factor:	2.10	Date of Analysis:	7/8/15 11:18 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	78
Carbon Dioxide	0.021	0.050
Methane	0.00021	Not Detected
Helium	0.10	0.67

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-06-062515

Lab ID#: 1507014B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070810	Date of Collection:	6/25/15 10:06:00 AM
Dil. Factor:	2.08	Date of Analysis:	7/8/15 11:55 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.18
Methane	0.00021	Not Detected
Helium	0.10	0.12

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-07-062515

Lab ID#: 1507014B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070811	Date of Collection:	6/25/15 1:02:00 PM
Dil. Factor:	2.03	Date of Analysis:	7/8/15 12:34 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	78
Carbon Dioxide	0.020	0.088
Methane	0.00020	Not Detected
Helium	0.10	0.62

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-08-062515

Lab ID#: 1507014B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070812	Date of Collection:	6/25/15 12:15:00 PM
Dil. Factor:	2.05	Date of Analysis:	7/8/15 01:14 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.073
Methane	0.00020	Not Detected
Helium	0.10	0.25

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-09-062415

Lab ID#: 1507014B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070813	Date of Collection: 6/24/15 2:44:00 PM
Dil. Factor:	2.14	Date of Analysis: 7/8/15 01:40 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.23
Methane	0.00021	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-10-062515

Lab ID#: 1507014B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070814	Date of Collection:	6/25/15 2:42:00 PM
Dil. Factor:	2.13	Date of Analysis:	7/8/15 02:04 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.10
Methane	0.00021	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-11-062515

Lab ID#: 1507014B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070815	Date of Collection:	6/25/15 8:09:00 AM
Dil. Factor:	2.12	Date of Analysis:	7/8/15 02:29 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.69
Methane	0.00021	Not Detected
Helium	0.11	0.20

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-12-062415

Lab ID#: 1507014B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070816	Date of Collection:	6/24/15 4:43:00 PM
Dil. Factor:	2.10	Date of Analysis:	7/8/15 02:54 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.57
Methane	0.00021	Not Detected
Helium	0.10	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-13-062515

Lab ID#: 1507014B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070817	Date of Collection: 6/25/15 4:11:00 PM
Dil. Factor:	2.03	Date of Analysis: 7/8/15 03:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.087
Methane	0.00020	Not Detected
Helium	0.10	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: SSVP-14-062515

Lab ID#: 1507014B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070818	Date of Collection:	6/25/15 4:43:00 PM
Dil. Factor:	2.11	Date of Analysis:	7/8/15 03:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	21
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.12
Methane	0.00021	Not Detected
Helium	0.10	0.19

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: Duplicate-062415

Lab ID#: 1507014B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070819	Date of Collection:	6/24/15
Dil. Factor:	2.12	Date of Analysis:	7/8/15 04:20 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	20
Nitrogen	0.21	79
Carbon Dioxide	0.021	0.57
Methane	0.00021	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: Duplicate-062515

Lab ID#: 1507014B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070820	Date of Collection:	6/25/15
Dil. Factor:	2.05	Date of Analysis:	7/8/15 04:44 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	21
Nitrogen	0.20	79
Carbon Dioxide	0.020	0.18
Methane	0.00020	Not Detected
Helium	0.10	0.12

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: EB-062915

Lab ID#: 1507014B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070821	Date of Collection:	6/29/15 2:59:00 PM
Dil. Factor:	2.32	Date of Analysis:	7/8/15 05:20 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.1
Nitrogen	0.23	98
Carbon Dioxide	0.023	Not Detected
Methane	0.00023	Not Detected
Helium	0.12	0.33

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507014B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070803	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/7/15 08:54 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507014B-18B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070804c	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/7/15 09:17 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507014B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070802	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/7/15 08:15 PM

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	91	85-115
Carbon Dioxide	98	85-115
Methane	104	85-115
Helium	102	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1507014B-19AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10070822	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/8/15 05:57 PM

Compound	%Recovery	Method Limits
Oxygen	98	85-115
Nitrogen	91	85-115
Carbon Dioxide	97	85-115
Methane	103	85-115
Helium	102	85-115

Container Type: NA - Not Applicable

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshire@leidos.com
 Address 18912 North Creek Pkwy, Suite 101 City Botheil State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info: P.O. # _____ Project # _____ Project Name _____	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ specify	Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
01A	55VP-01-062415	3040	6/24/2015	09:33	See Notes	30"	<1"		
02A	55VP-02-062415	3046	6/24/2015	10:58		30"	<1"		
03A	55VP-03-062415	1L1577	6/24/2015	11:56		30"	<1"		
04A	55VP-04-062415	33715	6/24/2015	19:30		30"	<1"		
05A	55VP-05-062415	36487	6/24/2015	18:24		30"	1.5"		
06A	55VP-06-062515	1L1689	6/25/2015	10:06		30"	1"		
07A	55VP-07-062515	1L2726	6/25/2015	13:02		30"	1"		
08A	55VP-08-062515	37676	6/25/2015	12:15		30"	1.5"		
09A	55VP-09-062415	34099	6/24/2015	14:44		30"	<1"		
10A	55VP-10-062515	31762	6/25/2015	14:42		27.75"	1"		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/30/2015 12:00</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>10:30 07/01/2015</u>	Notes: T0-15 (Low Level) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - Oxygen, carbon dioxide, methane, nitrogen, helium.
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>		<u>N/A</u>	<u>Good</u>	Yes No <u>None</u>	<u>1507014</u>

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Russ Shropshire
 Collected by: (Print and Sign) Russ Shropshire
 Company Leidos Email shropshire@leidos.com
 Address 18912 North Creek Pkwy, Suite 161 City Bellevue State WA Zip 98011
 Phone 425-482-3323 Fax _____

Project Info:	P.O. # _____ Project # _____ Project Name _____	Turn Around Time:	Lab Use Only
		<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush specify _____	Pressurized by: _____ Date: _____ Pressurization Gas: <u>N₂</u> <u>He</u>

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
11A	55VP-11-062515	31758	6/25/2015	08:09	See Notes	30"	1"		
12A	55VP-12-062415	34087	6/24/2015	16:43	↓	30"	<1"		
13A	55VP-13-062515	11835	6/25/2015	16:11 R35 16:10:30		30"	1"		
14A	55VP-14-062515	34581	6/25/2015	16:43		30"	1"		
15A	Duplicate - 062415	35554	6/24/2015	—		30"	<1"		
16A	Duplicate - 062515	37784	6/25/2015	—		30"	1"		
17A	EB-062915	1043	6/29/2015	1459					

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/30/2015 12:00</u>	Received by: (signature) <u>Candice McKinney EATL</u> Date/Time <u>10:30 07/01/2015</u>	Notes: TO-15 (Low level) - Report only BTEX, MTBE, and Naphthalene. ASTM D-1946 - oxygen, carbon dioxide, methane, nitrogen, helium.
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		N/A	Good	Yes No <u>None</u>	1507014

Appendix D:
Meteorological Monitoring Data

6/25/2015	11:45 PM	76	76.5	76	45	53.1	0	WNW	0	3	WNW	76	75.6	75.6	30.013	0	0	0	0.115	87.5	23	45.1	84.4	4.85	0.072	343	1	100	15
6/26/2015	12:00 AM	75.2	76	75.2	52	56.4	2	WNW	0.5	4	WNW	75.2	75.4	75.4	30.016	0	0	0	0.106	86.9	24	45.8	84.1	5.01	0.0721	345	1	100	15
6/26/2015	12:15 AM	74	75.2	74	52	55.3	3	W	0.75	7	W	74	73.9	73.9	30.019	0	0	0	0.094	86.6	25	46.6	83.9	5.22	0.0721	341	1	99.7	15
6/26/2015	12:30 AM	73.8	74	73.8	51	54.5	0	W	0	3	W	73.8	73.6	73.6	30.016	0	0	0	0.092	86	26	47.1	83.6	5.35	0.0722	345	1	100	15
6/26/2015	12:45 AM	73.6	73.9	73.6	51	54.4	1	W	0.25	5	WNW	73.6	73.3	73.3	30.021	0	0	0	0.09	85.4	27	47.6	83.1	5.54	0.0722	344	1	100	15
6/26/2015	1:00 AM	72.9	73.5	72.9	56	56.3	1	WNW	0.25	4	W	72.9	72.9	72.9	30.021	0	0	0	0.082	85.1	28	48.3	83	5.65	0.0723	345	1	100	15
6/26/2015	1:15 AM	72.1	72.9	72.1	57	56	1	W	0.25	4	WSW	72.1	71.8	71.8	30.025	0	0	0	0.074	84.5	28	47.8	82.4	5.66	0.0724	344	1	100	15
6/26/2015	1:30 AM	71.8	72.1	71.8	53	53.7	1	NW	0.25	2	W	71.8	71	71	30.023	0	0	0	0.071	84.1	29	48.4	82.2	5.85	0.0724	345	1	100	15
6/26/2015	1:45 AM	71.7	71.8	71.6	53	53.7	1	WNW	0.25	5	WNW	71.7	70.9	70.9	30.025	0	0	0	0.07	83.6	30	48.9	81.8	6.05	0.0725	344	1	100	15
6/26/2015	2:00 AM	71.1	71.7	71.1	58	55.6	1	NW	0.25	4	NW	71.1	70.4	70.4	30.025	0	0	0	0.064	83.2	31	49.4	81.4	6.15	0.0725	343	1	100	15
6/26/2015	2:15 AM	71	71.1	71	56	54.5	1	W	0.25	3	W	71	70.1	70.1	30.026	0	0	0	0.063	82.6	32	49.7	80.9	6.3	0.0726	344	1	100	15
6/26/2015	2:30 AM	71	71	70.9	57	55	1	NW	0.25	3	NNW	71	70.2	70.2	30.028	0	0	0	0.063	82.3	32	49.5	80.6	6.3	0.0726	344	1	100	15
6/26/2015	2:45 AM	70.8	71	70.8	60	56.2	0	NW	0	2	NW	70.8	70.2	70.2	30.03	0	0	0	0.06	81.9	33	50	80.3	6.47	0.0727	343	1	100	15
6/26/2015	3:00 AM	70.7	70.8	70.6	60	56.1	0	NW	0	2	NW	70.7	70.1	70.1	30.034	0	0	0	0.059	81.4	34	50.3	79.9	6.59	0.0727	346	1	100	15
6/26/2015	3:15 AM	70.6	70.7	70.5	50	51.1	1	WNW	0.25	3	NW	70.6	69.1	69.1	30.036	0	0	0	0.058	81	35	50.8	79.5	6.81	0.0728	344	1	100	15
6/26/2015	3:30 AM	70.6	70.7	70.6	57	54.6	1	WNW	0.25	3	WNW	70.6	69.7	69.7	30.033	0	0	0	0.058	80.9	35	50.7	79.4	6.81	0.0728	345	1	100	15
6/26/2015	3:45 AM	70.6	70.6	70.6	53	52.6	0	W	0	2	W	70.6	69.3	69.3	30.032	0	0	0	0.058	80.5	36	51.1	79.1	6.93	0.0728	345	1	100	15
6/26/2015	4:00 AM	70.6	70.8	70.6	58	55.1	0	W	0	3	W	70.6	69.8	69.8	30.037	0	0	0	0.058	80.2	36	50.8	78.8	6.94	0.0729	343	1	100	15
6/26/2015	4:15 AM	70.1	70.6	70.1	56	53.7	0	WNW	0	2	WNW	70.1	68.9	68.9	30.037	0	0	0	0.053	79.8	37	51.2	78.6	7.15	0.0729	344	1	100	15
6/26/2015	4:30 AM	69	70.1	69	50	49.6	0	WNW	0	2	WNW	69	67.6	67.6	30.04	0	0	0	0.042	79.6	37	51	78.4	7.16	0.073	343	1	100	15
6/26/2015	4:45 AM	68.3	69	68.3	50	48.9	0	N	0	2	N	68.3	67	67	30.044	0	0	0	0.034	79.3	37	50.8	78.2	7.16	0.073	345	1	100	15
6/26/2015	5:00 AM	67.8	68.3	67.8	50	48.5	0	N	0	2	N	67.8	66.5	66.5	30.048	0	0	0	0.029	78.9	37	50.4	77.8	7.17	0.0731	346	1	100	15
6/26/2015	5:15 AM	67.4	67.8	67.4	51	48.6	0	N	0	1	N	67.4	66.1	66.1	30.05	0	0	0	0.025	78.6	37	50.1	77.5	7.18	0.0731	344	1	100	15
6/26/2015	5:30 AM	67	67.4	67	54	49.8	0	---	0	0	---	67	66	66	30.055	0	0	0	0.021	78.2	37	49.8	77.1	7.19	0.0732	345	1	100	15
6/26/2015	5:45 AM	66.8	67	66.8	53	49.1	0	N	0	4	NNE	66.8	65.7	65.7	30.058	0	0	0	0.019	77.9	37	49.5	76.8	7.19	0.0733	343	1	100	15
6/26/2015	6:00 AM	67.2	67.2	66.8	53	49.5	0	NNE	0	3	NNE	67.2	66.1	66.1	30.066	0	0	0	0.023	77.6	37	49.3	76.5	7.2	0.0734	348	1	100	15
6/26/2015	6:15 AM	67.8	67.8	67.2	49	47.9	0	NE	0	2	NE	67.8	66.4	66.4	30.07	0	0	0	0.029	77.2	38	49.6	76.3	7.31	0.0734	343	1	100	15
6/26/2015	6:30 AM	69.2	69.2	67.9	49	49.2	0	NE	0	2	NE	69.2	67.6	67.6	30.072	0	0	0	0.044	77	38	49.4	76.1	7.31	0.0734	344	1	100	15
6/26/2015	6:45 AM	70.6	70.6	69.2	48	50	0	NE	0	2	NE	70.6	68.9	68.9	30.075	0	0	0	0.058	76.7	38	49.2	75.8	7.32	0.0735	345	1	100	15
6/26/2015	7:00 AM	71.8	71.8	70.6	45	49.3	0	NE	0	1	NE	71.8	70.3	70.3	30.076	0	0	0	0.071	76.7	38	49.2	75.8	7.32	0.0735	345	1	100	15
6/26/2015	7:15 AM	73.1	73.1	71.9	44	49.9	0	NE	0	2	NE	73.1	72.2	72.2	30.076	0	0	0	0.084	76.5	38	49	75.6	7.32	0.0735	346	1	100	15
6/26/2015	7:30 AM	72.1	73.1	72.1	46	50.2	2	WSW	0.5	4	W	72.1	70.8	70.8	30.076	0	0	0	0.074	76.5	38	49	75.6	7.32	0.0735	344	1	100	15
6/26/2015	7:45 AM	71.9	72.1	71.7	47	50.6	2	WSW	0.5	5	W	71.9	70.6	70.6	30.079	0	0	0	0.072	76.5	39	49.7	75.6	7.52	0.0735	345	1	100	15
6/26/2015	8:00 AM	72	72	71.8	49	51.8	2	W	0.5	5	WSW	72	71	71	30.08	0	0	0	0.073	76.7	39	49.9	75.8	7.52	0.0735	344	1	100	15
6/26/2015	8:15 AM	72.6	72.6	72	44	49.4	2	W	0.5	5	W	72.6	71.4	71.4	30.078	0	0	0	0.079	77	39	50.1	76.2	7.51	0.0734	346	1	100	15
6/26/2015	8:30 AM	72.8	72.8	72.5	43	49	2	W	0.5	4	W	72.8	71.6	71.6	30.079	0	0	0	0.081	77.2	39	50.3	76.3	7.51	0.0734	344	1	100	15
6/26/2015	8:45 AM	73.2	73.2	72.8	43	49.4	3	WSW	0.75	5	WSW	73.2	72.2	72.2	30.077	0	0	0	0.085	77.4	39	50.5	76.5	7.5	0.0734	344	1	100	15
6/26/2015	9:00 AM	74	74	73.2	42	49.4	3	WSW	0.75	5	W	74	73.2	73.2	30.078	0	0	0	0.094	77.7	40	51.5	76.8	7.6	0.0733	344	1	100	15
6/26/2015	9:15 AM	74.2	74.2	73.9	42	49.6	3	W	0.75	5	W	74.2	73.5	73.5	30.073	0	0	0	0.096	78.9	40	52.5	78.1	7.57	0.0731	343	1	100	15

Appendix E:
Groundwater Monitoring Field Data Sheets



GETTLER-RYAN INC.



TRANSMITTAL

June 29, 2015
G-R #386610

TO: Mr. Russell Shropshire
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: **Chevron Service Station**
#9-6590
232 Woodin Avenue
Chelan, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Second Quarter Event of June 17, 18, & 19, 2015

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-6590

Standard Operating Procedure, Low-Flow Purging and Sampling

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ($\pm 10\%$), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler,

maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-2
 Well Diameter: 2(4) in.
 Total Depth: 13.50 ft.
 Depth to Water: DLX ft.

Date Monitored: 6.17.19

Volume	<u>3/4" = 0.62</u>	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	<u>4" = 0.66</u>	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

- Disposable Bailer _____
- Stainless Steel Bailer _____
- Stack Pump _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Sampling Equipment:

- Disposable Bailer _____
- Pressure Bailer _____
- Metal Filters _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 12' DTW SUP COVER

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: DLX Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 0-17/18/19-15 (inclusive)
 Sampler: J.P.

Well ID: MW-5
 Well Diameter: (2) 4 in.
 Total Depth: 34.01 ft.
 Depth to Water: OLY ft.

Date Monitored: 0-17-15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: OLY @ 34.01

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.V.

Well ID: MW-10
 Well Diameter: (2) 4 in.
 Total Depth: 32.61 ft.
 Depth to Water: 29.61 ft.
3.00 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.17.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.70

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: Y&T

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 11:31
 Sample Time/Date: 10.19.15
 Approx. Flow Rate: 265 mlpm
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 30.61
 Weather Conditions: Sunny
 Water Color: clear Odor: (Y) N MILD w/3HEEN
 Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity ($\mu\text{S}/\text{mS}$ / $\mu\text{mhos}/\text{cm}$)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1149</u>	<u>3.6</u>	<u>6.36</u>	<u>.302</u>	<u>18.03</u>	<u>3.02</u>	<u>-16.3</u>	<u>30.63</u>
<u>1152</u>	<u>4.2</u>	<u>6.36</u>	<u>.304</u>	<u>18.09</u>	<u>3.00</u>	<u>-16.9</u>	<u>30.61</u>
<u>1155</u>	<u>4.8</u>	<u>6.36</u>	<u>.301</u>	<u>18.13</u>	<u>3.01</u>	<u>-17.9</u>	<u>30.61</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 33.5 - 34.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: F



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 10.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-7
 Well Diameter: 2.14 in.
 Total Depth: 34.7 ft.
 Depth to Water: 29.6 ft.
5.10 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 10.17.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.63

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: VBI

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1330
 Sample Time/Date: 10.18.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____

Weather Conditions: SUN
 Water Color: clear Odor: (Y) N
 Sediment Description: NONE
 Volume: _____ ltrs DTW @ Sampling: 29.63

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1330</u>	<u>9.6</u>	<u>6.41</u>	<u>690</u>	<u>17.92</u>	<u>2.30</u>	<u>-19.3</u>	<u>29.64</u>
<u>1335</u>	<u>4.2</u>	<u>6.43</u>	<u>690</u>	<u>18.00</u>	<u>2.36</u>	<u>-20.1</u>	<u>29.63</u>
<u>1340</u>	<u>4.8</u>	<u>6.43</u>	<u>690</u>	<u>18.00</u>	<u>2.39</u>	<u>-19.8</u>	<u>29.63</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 31.5 - 32.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: X Add/Replaced Lock: X



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: [Signature]

Well ID: MW-8
 Well Diameter: 3.14 in.
 Total Depth: 21.82 ft.
 Depth to Water: 27.04 ft.
7.78 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.17.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.49

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: VBI

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1047 Weather Conditions: Sun
 Sample Time/Date: 1110, 6.17.15 Water Color: CLEAR Odor: Y (M)
 Approx. Flow Rate: 200 mlpm Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 27.04

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS (mS) µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1100</u>	<u>3.6</u>	<u>6.52</u>	<u>799</u>	<u>17.88</u>	<u>2.53</u>	<u>-13.2</u>	<u>27.67</u>
<u>1103</u>	<u>4.2</u>	<u>6.52</u>	<u>801</u>	<u>17.93</u>	<u>2.51</u>	<u>-13.9</u>	<u>27.64</u>
<u>1106</u>	<u>4.8</u>	<u>6.52</u>	<u>801</u>	<u>17.98</u>	<u>2.50</u>	<u>-14.3</u>	<u>27.64</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At:

at SHEDWOOD x2
LET

Add/Replaced Gasket: _____ Add/Replaced Bolt: V2 Add/Replaced Plug: L Add/Replaced Lock: L



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-9
 Well Diameter: 2.4 in.
 Total Depth: 40.49 ft.
 Depth to Water: X ft.

Date Monitored: 6.19.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 39.26 ft
 Depth to Water: X ft
 Hydrocarbon Thickness: X ft
 Visual Confirmation/Description:
NO WATER DETECTED
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: 0 ltr
 Amt Removed from Well: 0 ltr
 Water Removed: 0 ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At:

M.O

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-10
 Well Diameter: 2.4 in.
 Total Depth: 37.810 ft.
 Depth to Water: 8 ft.

Date Monitored: 6.19.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 36.18 ft
 Depth to Water: 8 ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description:
NO WATER DETECTED
 Skimmer / Absorbent Sock (circle one) _____
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: MC

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 10.17/18/19.15 (inclusive)
 Sampler: J.P

Well ID: MW-12
 Well Diameter: (2) 4 in.
 Total Depth: 37.01 ft.
 Depth to Water: 31.11 ft.
5.90 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 6.19.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

~~Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____~~

Sampling Equipment:

~~Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____~~

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 29.03 ft
 Depth to Water: 31.11 ft
 Hydrocarbon Thickness: 1.20 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: ltr
 Amt Removed from Well: ltr
 Water Removed: ltr
 Product Transferred to:

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M.O

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 10-17/18/19-15 (inclusive)
 Sampler: V.P.

Well ID: MW-15
 Well Diameter: (2) 4 in.
 Total Depth: 39.99 ft.
 Depth to Water: 29.26 ft.
10.73 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 10-10-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.40

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: YGT

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1005 Weather Conditions: SUN
 Sample Time/Date: 1032 / 10-10-15 Water Color: CLEAR Odor: (Y) N MILD / NO SHEEN
 Approx. Flow Rate: 200 mlpm Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 29.29

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1023</u>	<u>3.6</u>	<u>6.36</u>	<u>.190</u>	<u>17.91</u>	<u>3.11</u>	<u>-30.1</u>	<u>29.29</u>
<u>1026</u>	<u>4.2</u>	<u>6.37</u>	<u>.191</u>	<u>17.92</u>	<u>3.13</u>	<u>-30.9</u>	<u>29.29</u>
<u>1029</u>	<u>4.8</u>	<u>6.36</u>	<u>.191</u>	<u>18.03</u>	<u>3.15</u>	<u>-31.6</u>	<u>29.29</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 34.5 - 35.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 0.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-16
 Well Diameter: (2) 4 in.
 Total Depth: 50.62 ft.
 Depth to Water: 45.11 ft.
4.91 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 0.19.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	8"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 44.89 ft
 Depth to Water: 45.11 ft
 Hydrocarbon Thickness: .72 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: (Y) / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At:

M.D.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: JP

Well ID: MW-17
 Well Diameter: (2) 4 in.
 Total Depth: 322.40 ft.
 Depth to Water: 25.90 ft.
12.42 xVF = --- = --- x3 case volume = Estimated Purge Volume: --- gal.

Date Monitored: 6.18.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.40

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: VI

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 6:00 AM
 Sample Time/Date: 6:30 / 6.18.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 26.02

Weather Conditions: SUN
 Water Color: CLEAR Odor: (Y) N MILD / SHEEN
 Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (μ S / mS μ mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>6:20</u>	<u>3.6</u>	<u>6.76</u>	<u>.226</u>	<u>17.13</u>	<u>5.03</u>	<u>31.3</u>	<u>26.01</u>
<u>6:23</u>	<u>4.2</u>	<u>6.77</u>	<u>.226</u>	<u>17.17</u>	<u>3.00</u>	<u>30.9</u>	<u>26.00</u>
<u>6:26</u>	<u>4.8</u>	<u>6.77</u>	<u>.226</u>	<u>17.20</u>	<u>(3.01)</u>	<u>30.2</u>	<u>26.02</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 31.5 - 32.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: ✓ Add/Replaced Lock: ✓



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 10.17/18/19.15 (inclusive)
 Sampler: [Signature]

Well ID: MW-10
 Well Diameter: (2) 4 in.
 Total Depth: 38.00 ft.
 Depth to Water: 31.30 ft.
7.70 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 10.18.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.85

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: Y6T

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 7:46 Weather Conditions: Sunny
 Sample Time/Date: 7:51 / 10.18.15 Water Color: clear Odor: (Y) N min
 Approx. Flow Rate: 2.0 mlpm Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 31.33

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS (mS) µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>7:24</u>	<u>3.6</u>	<u>6.83</u>	<u>.211</u>	<u>17.31</u>	<u>2.91</u>	<u>18.3</u>	<u>31.33</u>
<u>7:27</u>	<u>4.2</u>	<u>6.83</u>	<u>.212</u>	<u>17.36</u>	<u>2.93</u>	<u>19.1</u>	<u>31.32</u>
<u>7:30</u>	<u>4.8</u>	<u>6.81</u>	<u>.212</u>	<u>17.41</u>	<u>2.96</u>	<u>19.8</u>	<u>31.33</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 35.5 - 36.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6-17/18/19-15 (inclusive)
 Sampler: J.P.

Well ID: MW-19
 Well Diameter: 2 1/4 in.
 Total Depth: 40.64 ft.
 Depth to Water: 31.77 ft.
0.27 xVF = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 6-19-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 31.73 ft
 Depth to Water: 31.77 ft
 Hydrocarbon Thickness: .64 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one):
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: Add/Replaced Lock:



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-21
 Well Diameter: 2.4 in.
 Total Depth: 39.93 ft.
 Depth to Water: 36.02 ft.
9.05 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.18.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.05

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: VBI

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 6:00 PM
 Sample Time/Date: 6:00 PM / 6.18.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 36.10
 Weather Conditions: Sunny
 Water Color: clear Odor: Y N
 Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm) (mS/cm)	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>6:02</u>	<u>3.6</u>	<u>6.81</u>	<u>322</u>	<u>17.86</u>	<u>3.66</u>	<u>-29.3</u>	<u>36.11</u>
<u>6:25</u>	<u>4.2</u>	<u>6.81</u>	<u>324</u>	<u>17.41</u>	<u>3.62</u>	<u>-30.1</u>	<u>36.09</u>
<u>6:28</u>	<u>4.8</u>	<u>6.82</u>	<u>324</u>	<u>17.46</u>	<u>3.60</u>	<u>-30.0</u>	<u>36.10</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-21</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 35.5 - 36.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-22
 Well Diameter: 2.4 in.
 Total Depth: 41.18 ft.
 Depth to Water: 29.65 ft.
11.53 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: -

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: 29.63 (2400 hrs)
 Depth to Product: 29.63 ft
 Depth to Water: 29.65 ft
 Hydrocarbon Thickness: .02 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: MO

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-23
 Well Diameter: (2) 4 in.
 Total Depth: 30.2 ft.
 Depth to Water: 29.2 ft.
9.0 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 6.18.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.0

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: YBI

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0902 Weather Conditions: Sun
 Sample Time/Date: 0929 / 6.18.15 Water Color: Clear Odor: (Y) N MICD
 Approx. Flow Rate: 200 mlpm Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 29.22

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS (mS) µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0920</u>	<u>3.6</u>	<u>6.63</u>	<u>.180</u>	<u>17.39</u>	<u>1.60</u>	<u>-29.1</u>	<u>29.23</u>
<u>0923</u>	<u>4.2</u>	<u>6.63</u>	<u>.189</u>	<u>17.43</u>	<u>1.63</u>	<u>-30.0</u>	<u>29.22</u>
<u>0926</u>	<u>4.8</u>	<u>6.63</u>	<u>.189</u>	<u>17.47</u>	<u>1.67</u>	<u>-30.0</u>	<u>29.22</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-23</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u> </u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 35.5 - 36.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6-17/18/19-15 (inclusive)
 Sampler: J.P.

Well ID: MW-25
 Well Diameter: 12.4 in.
 Total Depth: 31.31 ft.
 Depth to Water: 41.69 ft.
9.02 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6-19-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 43.65

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 41.67 ft
 Depth to Water: 41.69 ft
 Hydrocarbon Thickness: .62 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N _____
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M.O.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-27
 Well Diameter: (3) 4 in.
 Total Depth: 40.04 ft.
 Depth to Water: 30.20 ft.
9.84 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 6.18.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.16

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: YGT

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1113 Weather Conditions: Sun
 Sample Time/Date: 1140 / 6.18.15 Water Color: clear Odor: (Y) N MILD w/ SHEEN
 Approx. Flow Rate: 260 mlpm Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 30.23

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS /ms µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1131</u>	<u>0.6</u>	<u>6.83</u>	<u>.347</u>	<u>17.49</u>	<u>3.56</u>	<u>49.2</u>	<u>30.23</u>
<u>1134</u>	<u>4.2</u>	<u>6.83</u>	<u>.346</u>	<u>17.63</u>	<u>3.51</u>	<u>48.3</u>	<u>30.21</u>
<u>1137</u>	<u>4.8</u>	<u>6.83</u>	<u>.346</u>	<u>17.57</u>	<u>3.49</u>	<u>47.6</u>	<u>30.23</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-27</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	3 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	2 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	2 x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	2 x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	2 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	3 x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 36.5 - 37.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: JP

Well ID: MW-180
 Well Diameter: (2) 4 in.
 Total Depth: 30.33 ft.
 Depth to Water: 26.41 ft.

Date Monitored: 6.18.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

11.92 xVF = x3 case volume = Estimated Purge Volume: gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.79

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: YSA

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 11:54
 Sample Time/Date: 12:16 6.18.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____

Weather Conditions: Cloud
 Water Color: CLEAR Odor: (Y) N MILD
 Sediment Description: NONE
 Volume: _____ ltrs DTW @ Sampling: 26.43

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / (µmhos/cm))	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>12:17</u>	<u>3.6</u>	<u>6.90</u>	<u>.326</u>	<u>17.93</u>	<u>3.53</u>	<u>41.9</u>	<u>26.44</u>
<u>12:20</u>	<u>4.2</u>	<u>6.90</u>	<u>.326</u>	<u>17.92</u>	<u>3.51</u>	<u>50.6</u>	<u>26.42</u>
<u>12:25</u>	<u>4.8</u>	<u>6.91</u>	<u>.327</u>	<u>17.92</u>	<u>3.49</u>	<u>51.3</u>	<u>26.43</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-180</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u> </u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>(3)</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 34.5 - 35.0

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: O.P

Well ID: MW-30
 Well Diameter: 2 1/4 in.
 Total Depth: 94.43 ft.
 Depth to Water: 70.36 ft.
24.07 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.17.15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 75.17

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: YGI

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0700 Weather Conditions: SUN
 Sample Time/Date: 0700 / 6.17.15 Water Color: CLEAR Odor: (Y) N MILD
 Approx. Flow Rate: 200 mlpm Sediment Description: GREYISH TO CLEAR
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 70.38

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0710</u>	<u>8.10</u>	<u>6.54</u>	<u>.143</u>	<u>17.28</u>	<u>3.64</u>	<u>-18.5</u>	<u>70.38</u>
<u>0721</u>	<u>4.2</u>	<u>6.54</u>	<u>.143</u>	<u>17.33</u>	<u>3.61</u>	<u>-18.3</u>	<u>70.37</u>
<u>0724</u>	<u>4.8</u>	<u>6.53</u>	<u>.143</u>	<u>17.37</u>	<u>3.61</u>	<u>-18.0</u>	<u>70.38</u>

LABORATORY INFORMATION

SAMPLE ID/	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-30</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FEROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP <u>FF</u>	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3 <u>FF</u>	LANCASTER	DISSOLVED MANGANESE(6040B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKQP-175M)

COMMENTS: Depth Pump Set At: 82.5 - 83.5 NO SURF FLOWS

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: R Add/Replaced Lock: R



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 0.17/0/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-31
 Well Diameter: (2) 4 in.
 Total Depth: 92.34 ft.
 Depth to Water: 68.79 ft.
23.55 xVF = - = -

Date Monitored: 0.17.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 73.60

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: Y6E

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0803
 Sample Time/Date: 0830 / 0.17.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____

Weather Conditions: Sun
 Water Color: CLEAR Odor: Y 1(N)
 Sediment Description: NONE
 Volume: _____ ltrs DTW @ Sampling: 68.81

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0821</u>	<u>3.6</u>	<u>0.95</u>	<u>.207</u>	<u>17.46</u>	<u>5.80</u>	<u>46.5</u>	<u>68.81</u>
<u>0824</u>	<u>4.2</u>	<u>0.96</u>	<u>.207</u>	<u>17.61</u>	<u>5.81</u>	<u>46.7</u>	<u>68.80</u>
<u>0827</u>	<u>4.8</u>	<u>0.36</u>	<u>.208</u>	<u>17.54</u>	<u>5.80</u>	<u>46.6</u>	<u>68.81</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-31</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>1</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: 01.5' - 02.5'

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: ✓ Add/Replaced Lock: ✓



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6-17/18/19-15 (inclusive)
 Sampler: J.P.

Well ID: MW-36
 Well Diameter: (2) 4 in.
 Total Depth: 49.49 ft.
 Depth to Water: 40.41 ft.
9.08 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 6-19-15

Volume	3/4"= 0.02	1"= 0.04	<u>2"= 0.17</u>	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 40.39 ft
 Depth to Water: 40.41 ft
 Hydrocarbon Thickness: .02 ft
 Visual Confirmation/Description: _____
Skimmer/Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M.O.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 6.17/18/19.15 (inclusive)
 Sampler: J.P.

Well ID: MW-37
 Well Diameter: 2.4 in.
 Total Depth: 98.63 ft.
 Depth to Water: 71.45 ft.
21.50 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 6.17.15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 70.70

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: Y6I

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 6:01
 Sample Time/Date: 6:17.15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? No If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 71.47
 Weather Conditions: Sun
 Water Color: clear Odor: YIN
 Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>6:19</u>	<u>3.6</u>	<u>6.17</u>	<u>.290</u>	<u>17.97</u>	<u>3.60</u>	<u>58.6</u>	<u>71.48</u>
<u>6:25</u>	<u>4.2</u>	<u>6.18</u>	<u>.290</u>	<u>18.01</u>	<u>3.64</u>	<u>60.1</u>	<u>71.46</u>
<u>6:25</u>	<u>4.0</u>	<u>6.18</u>	<u>.290</u>	<u>18.11</u>	<u>3.61</u>	<u>60.6</u>	<u>71.47</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW.37</u>	<u>2</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: L Add/Replaced Lock: R

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____

Group # _____

Sample # _____

For Eurofins Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks									
Facility # SS#9-6590-OML G-R#386610 WBS Site Address 232 East Woodin Avenue, CHELAN, WA Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 95008 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler _____				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			Total Number of Containers _____ BTEX + MTBE <input checked="" type="checkbox"/> 802 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan _____ Oxygenates _____ NWTPH-Gx _____ NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ NITRATE / SULFATE EPH 300.00 61920 Fe-B 3500 1197 DISSOLVED MANGANESE 6010 B ALKALINITY / METHANE 175 M										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits									
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	802	8260	Naphth	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	6 Remarks		
Date	Time	Soil	Water																					Oil	BTEX + MTBE	802
J. PAYNE GFA MW-8 MW-30 MW-31 MW-37		6.17.15 6.17 1110 6.17 0730 6.17 0830 6.17 0930	X X X X	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2 13 5 5	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED. SHORT HOURS MW-8
7 Turnaround Time Requested (TAT) (please circle) Standard <input checked="" type="radio"/> 5 day 72 hour <input type="radio"/> 48 hour 4 day <input type="radio"/> EDD/EDD 24 hour <input type="radio"/>				Relinquished by Date 6.17.15 Time 1330			Received by _____ Date _____ Time _____		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by _____ Date _____ Time _____		Temperature Upon Receipt _____ °C		Custody Seals Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>							
8 Data Package (circle if required) Type I - Full _____ Type VI (Raw Data) _____				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Received by _____ Date _____ Time _____		Temperature Upon Receipt _____ °C		Custody Seals Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>														

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____

For Eurofins Lancaster Laboratories use only
 Group # _____ Sample # _____
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested																	
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface			<input type="checkbox"/> BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA-VPH <input type="checkbox"/> WA-ERH <input type="checkbox"/> METHANE Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method NITRATE/SULFATE EPA 300.0 FERRIC IRON (SN# 3001e-6197) ALKALINITY (330 B-191) DISSOLVED MANGANESE																	
Site Address 232 East Woodin Avenue, CHELAN, WA			<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			Total Number of Containers																	
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire			<input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil																				
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568			<input type="checkbox"/> Composite																				
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)			<input type="checkbox"/> Grab																				
Consultant Phone # (925) 551-7444 x180			<input type="checkbox"/> J. PAYNE																				
Sampler																							
2 Sample Identification		Collected																					
		Date	Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA-VPH	Lead	Total	Diss.	Method			
QA		6-18-15		X			X		2	X			X										
NEW-7		6-18	1330	X			X		13	X			X	X	X	X						X	X
NEW-15		6-18	1032	X			X		13	X			X	X	X	X						X	X
NEW-17		6-18	0630	X			X		13	X			X	X	X	X						X	X
NEW-18		6-18	0733	X			X		13	X			X	X	X	X						X	X
NEW-21		6-18	0830	X			X		13	X			X	X	X	X						X	X
NEW-23		6-18	0919	X			X		13	X			X	X	X	X						X	X
NEW-27		6-18	1140	X			X		5	X			X	X	X	X						X	X
NEW-28		6-18	1225	X			X		13	X			X	X	X	X						X	X
DUP		6-18		X			X		5	X			X	X	X	X						X	X

SCR #: _____

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by [Signature]			Date 6-18-15		Time 1400		Received by _____			Date _____	
Standard 5 day 72 hour 48 hour 4 day EDF/EDD 24 hour			Relinquished by _____			Date _____		Time _____		Received by _____			Date _____	
8 Data Package (circle if required)			Relinquished by Commercial Carrier:			Date _____		Time _____		Received by _____			Date _____	
Type I - Full			EDD (circle if required)			UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Temperature Upon Receipt _____ °C		Custody Seals Intact? Yes No			Yes No	
Type VI (Raw Data)			CVX-RTBU-FL_05 (default)			Other: _____								

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____ Group # _____ Sample # _____
 For Eurofins Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested					
Facility # SS#9-6590-OML G-R#386610 WBS			Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Total Number of Containers BTEX + MTBE <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/>	SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits						
Site Address 232 East Woodin Avenue, CHELAN, WA											
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire											
Consultant/Office Gettier-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568											
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)											
Consultant Phone # (925) 551-7444 x180											
Sampler J. PAYNE			3 Composite								
2 Sample Identification		Collected		Grab	Composite						
		Date	Time								

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	
RA	6.19.15		X			X		2	X					X									
NW-6	6.19.15	11:00	X			X		13	X					X	X	X							

6 Remarks
DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND DX WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

7 Turnaround Time Requested (TAT) (please circle)
Standard <input checked="" type="radio"/> 5 day 48 hour <input type="radio"/>
4 day <input type="radio"/> EDF/EDD 24 hour <input type="radio"/>

Relinquished by <i>[Signature]</i>	Date 6.19.15	Time 15:00	Received by	Date	Time
Relinquished by	Da	e	Received by	Date	Time

8 Data Package (circle if required)	EDD (circle if required)
Type I - Full <input type="checkbox"/>	CVX-RTBU-FL_05 (default) <input type="checkbox"/>
Type VI (Raw Data) <input type="checkbox"/>	Other: _____

Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____	Received by
Temperature Upon Receipt _____ °C	Custody Seals Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>



GETTLER-RYAN INC.



TRANSMITTAL

September 30, 2015
G-R #386610

TO: Mr. Russell Shropshire
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: **Chevron Service Station**
#9-6590
232 Woodin Avenue
Chelan, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Third Quarter Event of September 21, 2015

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-6590

Standard Operating Procedure, Low-Flow Purging and Sampling

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ($\pm 10\%$), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler,

maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-2
 Well Diameter: 2 1/4 in.
 Total Depth: 34.18 ft.
 Depth to Water: ft.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 7 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: NA, M/O * OBSTRUCTION @ 25.64 COULD NOT GET PASS.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-5
 Well Diameter: 2/4 in.
 Total Depth: 34.81 ft.
 Depth to Water: 29.91 ft.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

5.70 xVF = 0.02 x3 case volume = Estimated Purge Volume: gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0650 Weather Conditions: SYNNY
 Sample Time/Date: 0730 / 9/21/15 Water Color: TAN Odor: YIN SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: SLT
 Did well de-water? no If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 27-96

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0708</u>	<u>3.6</u>	<u>7.14</u>	<u>1231</u>	<u>16.1</u>	<u>1.3</u>	<u>-58</u>	<u>29.95</u>
<u>0711</u>	<u>4.2</u>	<u>7.14</u>	<u>1232</u>	<u>15.9</u>	<u>1.2</u>	<u>-56</u>	<u>29.95</u>
<u>0714</u>	<u>4.8</u>	<u>7.13</u>	<u>1231</u>	<u>15.8</u>	<u>1.4</u>	<u>-56</u>	<u>29.96</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>1</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ≈ 30.00ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-6
 Well Diameter: 2.4 in.
 Total Depth: 35.81 ft.
 Depth to Water: 29.55 ft.
6.26 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1030 Weather Conditions: Sunny
 Sample Time/Date: 1120 / 9/21/15 Water Color: CLOUDY Odor: YDN MODERATE
 Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 29.60

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1048</u>	<u>3.6</u>	<u>7.04</u>	<u>1292</u>	<u>15.6</u>	<u>1.5</u>	<u>-40</u>	<u>29.59</u>
<u>1051</u>	<u>4.2</u>	<u>7.03</u>	<u>1290</u>	<u>15.6</u>	<u>1.4</u>	<u>-41</u>	<u>29.60</u>
<u>1054</u>	<u>4.8</u>	<u>7.01</u>	<u>1289</u>	<u>15.6</u>	<u>1.4</u>	<u>-39</u>	<u>29.60</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ≈ 31.50 ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-7
 Well Diameter: 2.4 in.
 Total Depth: 34.21 ft.
 Depth to Water: 28.77 ft.
5.94 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: <u>0</u> ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr
Product Transferred to: _____

Start Time (purge): 1140
 Sample Time/Date: 1220 / 9/21/15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? NO If yes, Time: _____

Weather Conditions: SUNNY
 Water Color: CLOUDY Odor: YDN MODERATE
 Sediment Description: SL SILT
 Volume: _____ ltrs DTW @ Sampling: 28.79

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (°C) (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1158</u>	<u>3.6</u>	<u>6.95</u>	<u>1283</u>	<u>16.4</u>	<u>1.2</u>	<u>-88</u>	<u>28.79</u>
<u>1201</u>	<u>4.2</u>	<u>6.94</u>	<u>1284</u>	<u>16.4</u>	<u>1.2</u>	<u>-87</u>	<u>28.79</u>
<u>1204</u>	<u>4.8</u>	<u>6.94</u>	<u>1282</u>	<u>16.3</u>	<u>1.2</u>	<u>-85</u>	<u>28.79</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 x voa vial</u>	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2 x 1 liter ambers</u>	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1 x 1 liter ambers</u>	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2 x voa vial</u>	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1 x 250ml ambers</u>	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1 x 250ml poly</u>	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1 x 250ml poly</u>	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>x 500ml poly</u>	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3 x voa vial</u>	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ≈ 31.00ft. SHEEN ON WATER

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-8
 Well Diameter: 21.4 in.
 Total Depth: 34.82 ft.
 Depth to Water: 25.89 ft.

Date Monitored: 9/21/15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water 8.93 xVF _____ = _____ x3 case volume = Estimated Purge Volume _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0920
 Sample Time/Date: 1010 / 9/21/15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 25.92
 Weather Conditions: SUNNY
 Water Color: TAN Odor: DIN MODERATE
 Sediment Description: SILT

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0938</u>	<u>3.6</u>	<u>7.30</u>	<u>840</u>	<u>15.6</u>	<u>1.4</u>	<u>-59</u>	<u>25.92</u>
<u>0941</u>	<u>4.2</u>	<u>7.29</u>	<u>837</u>	<u>15.6</u>	<u>1.5</u>	<u>-57</u>	<u>25.92</u>
<u>0944</u>	<u>4.8</u>	<u>7.28</u>	<u>836</u>	<u>15.5</u>	<u>1.5</u>	<u>-56</u>	<u>25.92</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX(8021)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc COLUMN</u>
	<u>x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx</u>
	<u>2 x voa vial</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>NITRATE/SULFATE(EPA 300.0)</u>
	<u>1 x 250ml ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>FERROUS IRON(SM20 3500 Fe-B- 1197)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>ALKALINITY(2320 B-1991)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>LANCASTER</u>	<u>DISSOLVED MANGANESE(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>LANCASTER</u>	<u>DISSOLVED MANGANESE(6010B)</u>
	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>METHANE(RSKOP-175M)</u>

COMMENTS: Depth Pump Set At: ~ 28.00ft. SHEEN ON WATER

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-9 Date Monitored: 9/21/15
 Well Diameter: 2 1/4 in.
 Total Depth: 40.49 ft.
 Depth to Water: 38.15 ft.
2.34 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 35.64 ft
 Depth to Water: 38.15 ft
 Hydrocarbon Thickness: 2.51 ft
 Visual Confirmation/Description:
TAN, OILY
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: NA SM MD

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-10
 Well Diameter: (2) 4 in.
 Total Depth: 37.80 ft.
 Depth to Water: 37.55 ft.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

0.31 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 29.45 ft
 Depth to Water: 37.55 ft
 Hydrocarbon Thickness: 8.10 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____

Weather Conditions: _____

Sample Time/Date: _____ / _____

Water Color: _____ Odor: Y / N

Approx. Flow Rate: _____ mlpm

Sediment Description: _____

Did well de-water? _____ If yes, Time: _____

Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: NA, MD

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-12
 Well Diameter: 2.4 in.
 Total Depth: 37.01 ft.
 Depth to Water: 27.66 ft.
9.35 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 25.99 ft
 Depth to Water: 27.66 ft
 Hydrocarbon Thickness: 1.67 ft
 Visual Confirmation/Description:
LT BROWN, OILY
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (μ S / mS μ mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: NA, M/O SPH

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GOM

Well ID: MW-15
 Well Diameter: 2.04 in.
 Total Depth: 39.98 ft.
 Depth to Water: 27.91 ft.
12.07 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9/21/15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump X
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0752
 Sample Time/Date: 0855 / 9/21/15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? NO If yes, Time: _____

Weather Conditions: SUNNY
 Water Color: CLEAR Odor: (Y) N STRONG
 Sediment Description: SILT
 Volume: _____ ltrs DTW @ Sampling: 27-96

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0810</u>	<u>3.6</u>	<u>7.82</u>	<u>637</u>	<u>15.3</u>	<u>1.6</u>	<u>-44</u>	<u>27.95</u>
<u>0813</u>	<u>4.2</u>	<u>7.81</u>	<u>635</u>	<u>15.3</u>	<u>1.6</u>	<u>-44</u>	<u>27.96</u>
<u>0816</u>	<u>4.8</u>	<u>7.81</u>	<u>634</u>	<u>15.2</u>	<u>1.5</u>	<u>-43</u>	<u>27.96</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX(8021)</u>
<u>DWP.</u>	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sgc COLUMN</u>
	<u>1 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx</u>
	<u>2 x voa vial</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>NITRATE/SULFATE(EPA 300.0)</u>
	<u>1 x 250ml ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>FERROUS IRON(SM20 3500 Fe-B- 1197)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>ALKALINITY(2320 B-1991)</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>LANCASTER</u>	<u>DISSOLVED MANGANESE(6010B)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>HNO3</u>	<u>LANCASTER</u>	<u>DISSOLVED MANGANESE(6010B)</u>
	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>METHANE(RSKOP-175M)</u>

COMMENTS: Depth Pump Set At: ~ 30:00ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-16
 Well Diameter: 2 1/4 in.
 Total Depth: 50.02 ft.
 Depth to Water: 42.16 ft.
7.86 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 41.93 ft
 Depth to Water: 42.16 ft
 Hydrocarbon Thickness: 0.23 ft
 Visual Confirmation/Description:
Light Oil
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M/O - SPT

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-17
 Well Diameter: Ø14 in.
 Total Depth: 38.40 ft.
 Depth to Water: 25.25 ft.
13.15 xVF = _____

Date Monitored: 9-21-15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.86

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 1010
 Sample Time/Date: 1100 / 9-21-15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? ✓ If yes, Time: _____

Weather Conditions: Sunny
 Water Color: Cloudy Odor: Ⓢ N moderate
 Sediment Description: Cloudy
 Volume: _____ ltrs DTW @ Sampling: 25.44

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1028</u>	<u>3.6</u>	<u>7.71</u>	<u>647</u>	<u>17.73</u>	<u>1.32</u>	<u>126</u>	<u>25.31</u>
<u>1031</u>	<u>4.2</u>	<u>7.68</u>	<u>656</u>	<u>17.78</u>	<u>1.33</u>	<u>130</u>	<u>25.38</u>
<u>1034</u>	<u>4.8</u>	<u>7.65</u>	<u>664</u>	<u>17.83</u>	<u>1.34</u>	<u>131</u>	<u>25.44</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 28.0 ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: Ar

Well ID: MW-18
 Well Diameter: 21.4 in.
 Total Depth: 39.06 ft.
 Depth to Water: 25.10 ft.
13.96 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.89

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 1115
 Sample Time/Date: 1210 / 9-21-15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? N If yes, Time: _____ Volume: _____

Weather Conditions: Sunny
 Water Color: Cloudy Odor: Y / 10
 Sediment Description: Cloudy
 ltrs DTW @ Sampling: 25.26

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1133</u>	<u>3.6</u>	<u>7.95</u>	<u>540</u>	<u>18.13</u>	<u>1.24</u>	<u>121</u>	<u>25.14</u>
<u>1136</u>	<u>4.2</u>	<u>7.90</u>	<u>546</u>	<u>18.20</u>	<u>1.27</u>	<u>129</u>	<u>25.20</u>
<u>1139</u>	<u>4.8</u>	<u>7.86</u>	<u>555</u>	<u>18.26</u>	<u>1.30</u>	<u>137</u>	<u>25.26</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-18</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
<u>1</u>	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
<u>3</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 280ft

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-19
 Well Diameter: 2 1/4 in.
 Total Depth: 40.04 ft.
 Depth to Water: 30.17 ft.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water 9.87 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____

Weather Conditions: _____

Sample Time/Date: _____ / _____

Water Color: _____ Odor: Y / N

Approx. Flow Rate: _____ mlpm

Sediment Description: _____

Did well de-water? _____ If yes, Time: _____

Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-21
 Well Diameter: 21.4 in.
 Total Depth: 39.93 ft.
 Depth to Water: 28.66 ft.
11.27 xVF = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 9-21-15

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.91

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump ✓
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump ✓
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0600
 Sample Time/Date: 0650 / 9-21-15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? ✓ If yes, Time: _____

Weather Conditions: Dawn
 Water Color: Cloudy Odor: DI N Slight
 Sediment Description: Cloudy
 Volume: _____ ltrs DTW @ Sampling: 28.78

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (10 / mS μmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0618</u>	<u>3.6</u>	<u>7.57</u>	<u>588</u>	<u>16.29</u>	<u>1.13</u>	<u>80</u>	<u>28.72</u>
<u>0621</u>	<u>4.2</u>	<u>7.61</u>	<u>593</u>	<u>16.33</u>	<u>1.20</u>	<u>86</u>	<u>28.74</u>
<u>0624</u>	<u>4.8</u>	<u>7.63</u>	<u>598</u>	<u>16.38</u>	<u>1.23</u>	<u>92</u>	<u>28.78</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-21</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 31.0ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-22
 Well Diameter: 2 1/4 in.
 Total Depth: 41.8 ft.
 Depth to Water: 27.36 ft.
13.82 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9-21-15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 27.31 ft
 Depth to Water: 27.36 ft
 Hydrocarbon Thickness: 0.05 ft
 Visual Confirmation/Description:
Light oily
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: m/o - SPH

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-23

Date Monitored: 9-21-15

Well Diameter: 2 1/4 in.

Total Depth: 38.21 ft.

Depth to Water: 27.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

10.71 xVF = x3 case volume = Estimated Purge Volume: gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 29.64

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0705

Weather Conditions: Sunny

Sample Time/Date: 0755 / 9-21-15

Water Color: Cloudy Odor: DN / moderate

Approx. Flow Rate: 200 mlpm

Sediment Description: Cloudy

Did well de-water? ~ If yes, Time: _____

Volume: _____ ltrs DTW @ Sampling: 27.65

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0723</u>	<u>3.6</u>	<u>7.97</u>	<u>543</u>	<u>15.69</u>	<u>1.17</u>	<u>128</u>	<u>27.55</u>
<u>0726</u>	<u>4.2</u>	<u>7.92</u>	<u>550</u>	<u>15.73</u>	<u>1.20</u>	<u>135</u>	<u>27.59</u>
<u>0729</u>	<u>4.8</u>	<u>7.90</u>	<u>555</u>	<u>15.79</u>	<u>1.23</u>	<u>140</u>	<u>27.65</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-23</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 30.0ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: NW

Well ID: MW-25
 Well Diameter: 2 1/4 in.
 Total Depth: 51.51 ft.
 Depth to Water: 35.70 ft.
15.81 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9-21-15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: 35.64 ft
 Depth to Water: 35.70 ft
 Hydrocarbon Thickness: 0.06 ft
 Visual Confirmation/Description: Light Oil
 Skimmer / Absorbant Sock (circle one) _____
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M/O - SPH

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-27

Date Monitored: 9-21-15

Well Diameter: 2 1/4 in.

Total Depth: 40.04 ft.

Depth to Water: 29.52 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

10.52 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.62

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0810
 Sample Time/Date: 0850 / 9-21-15
 Approx. Flow Rate: 200 mlpm
 Did well de-water? ~ If yes, Time: _____

Weather Conditions: Sunny
 Water Color: Cloudy Odor: DN / moderate
 Sediment Description: Cloudy
 Volume: _____ ltrs DTW @ Sampling: 29.71

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS / cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0828</u>	<u>3.6</u>	<u>7.77</u>	<u>433</u>	<u>16.59</u>	<u>1.09</u>	<u>123</u>	<u>29.58</u>
<u>0831</u>	<u>4.2</u>	<u>7.72</u>	<u>440</u>	<u>16.63</u>	<u>1.12</u>	<u>130</u>	<u>29.65</u>
<u>0834</u>	<u>4.8</u>	<u>7.69</u>	<u>449</u>	<u>16.69</u>	<u>1.17</u>	<u>136</u>	<u>29.71</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-27</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 32.0ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
Site Address: 232 Woodin Avenue
City: Chelan, WA

Job Number: 386610
Event Date: 9-21-15 (inclusive)
Sampler: AW

Well ID: MW-28
Well Diameter: 21.4 in.
Total Depth: 38.33 ft.
Depth to Water: 25.73 ft.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.25
xVF 12.60 = 12.60 x3 case volume = Estimated Purge Volume: 37.8 gal.

Purge Equipment:

Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Sampling Equipment:

Disposable Bailer _____
Pressure Bailer _____
Metal Filters _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr
Product Transferred to:	_____

Start Time (purge): 0905
Sample Time/Date: 0955 / 9-21-15
Approx. Flow Rate: 200 mlpm
Did well de-water? N If yes, Time: _____ Volume: _____

Weather Conditions: Sunny
Water Color: cloudy Odor: 0 / N Moderate
Sediment Description: Cloudy
Volume: _____ ltrs DTW @ Sampling: 25.88

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0923	3.6	7.84	627	16.68	1.09	134	25.78
0926	4.2	7.80	638	16.72	1.12	140	25.82
0929	4.8	7.75	644	16.79	1.19	148	25.88

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-28</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>3</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 28.0ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-30

Date Monitored: 9/21/15

Well Diameter: 2.4 in.

Total Depth: 94.43 ft.

Depth to Water: 65.28 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

29.15 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump X
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0548

Weather Conditions: SUNNY

Sample Time/Date: 0625 / 9/21/15

Water Color: CLEAR Odor: Y (N)

Approx. Flow Rate: 200 mlpm

Sediment Description: SLT SILT

Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 65.35

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C) (F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0606</u>	<u>3.6</u>	<u>8.02</u>	<u>179.9</u>	<u>14.9</u>	<u>1.9</u>	<u>-50</u>	<u>65.34</u>
<u>0609</u>	<u>4.2</u>	<u>8.02</u>	<u>179.6</u>	<u>14.9</u>	<u>1.8</u>	<u>-50</u>	<u>65.35</u>
<u>0612</u>	<u>4.8</u>	<u>8.01</u>	<u>179.1</u>	<u>14.9</u>	<u>1.8</u>	<u>-50</u>	<u>65.35</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-30</u>	<u>7</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>1</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ≈ 67.50 ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AW

Well ID: MW-31
 Well Diameter: 2 1/4 in.
 Total Depth: 92.34 ft.
 Depth to Water: 63.70 ft.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 69.42
 xVF 28.64 = — x3 case volume = Estimated Purge Volume: — gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0500 Weather Conditions: Dark
 Sample Time/Date: 0540 / 9-21-15 Water Color: Cloudy Odor: Y / 10
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 63.85

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0518</u>	<u>3.6</u>	<u>7.74</u>	<u>152</u>	<u>16.82</u>	<u>1.24</u>	<u>89</u>	<u>63.74</u>
<u>0521</u>	<u>4.2</u>	<u>7.71</u>	<u>158</u>	<u>16.85</u>	<u>1.27</u>	<u>93</u>	<u>63.79</u>
<u>0524</u>	<u>4.8</u>	<u>7.70</u>	<u>162</u>	<u>16.88</u>	<u>1.30</u>	<u>99</u>	<u>63.85</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-31</u>	<u>5</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ~ 32.0 ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9-21-15 (inclusive)
 Sampler: AV

Well ID: MW-36
 Well Diameter: 214 in.
 Total Depth: 49.49 ft.
 Depth to Water: 34.65 ft.
14.84 xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9-21-15

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: M/O

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-6590
 Site Address: 232 Woodin Avenue
 City: Chelan, WA

Job Number: 386610
 Event Date: 9/21/15 (inclusive)
 Sampler: GM

Well ID: MW-37
 Well Diameter: 2.4 in.
 Total Depth: 93.03 ft.
 Depth to Water: 66.23 ft.
26.80 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 9/21/15

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump x
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): 0440 Weather Conditions: SUNNY
 Sample Time/Date: 0520 9/21/15 Water Color: CLEAR Odor: Y (N)
 Approx. Flow Rate: 200 mlpm Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 66.23

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0458</u>	<u>3.6</u>	<u>7.27</u>	<u>249</u>	<u>15.1</u>	<u>1.8</u>	<u>9</u>	<u>66.23</u>
<u>0501</u>	<u>4.2</u>	<u>7.26</u>	<u>248</u>	<u>14.9</u>	<u>1.8</u>	<u>10</u>	<u>66.23</u>
<u>0504</u>	<u>4.8</u>	<u>7.23</u>	<u>247</u>	<u>14.9</u>	<u>1.7</u>	<u>10</u>	<u>66.23</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-37</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX(8021)
	<u>2</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc COLUMN
	<u>1</u> x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx
	<u>1</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE(EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON(SM20 3500 Fe-B- 1197)
	<u>1</u> x 250ml poly	YES	NP	LANCASTER	ALKALINITY(2320 B-1991)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED MANGANESE(6010B)
	<u>1</u> x voa vial	YES	HCL	LANCASTER	METHANE(RSKOP-175M)

COMMENTS: Depth Pump Set At: ≈ 75.50ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____

For Eurofins Lancaster Laboratories use only
Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested															
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air	Total Number of Containers 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> COLUMN NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method METHANE (Bskop-17SM)																	
Site Address 232 East Woodin Avenue, CHELAN, WA																					
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropton																					
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																					
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)																					
Consultant Phone # (925) 551-7444 x180																					
Sampler GM/AW			3 Composite																		
2 Sample Identification		Collected		Grab	Composite																
		Date	Time																		
JA		9/2/11	-	X		2	X		X												
00 DUP			-			5				X											
MW-5			0730			8				X											
MW-6			1120																		
MW-7			1230																		
MW-8			1010																		
MW-15			0855																		
MW-17			1100																		
MW-18			1210																		
MW-21			0650																		
MW-23			0755																		
MW-27			0850																		
MW-28			0955																		

- SCR #: _____
- Results in Dry Weight
 - J value reporting needed
 - Must meet lowest detection limits possible for 8260 compounds
 - 8021 MTBE Confirmation
 - Confirm MTBE + Naphthalene
 - Confirm highest hit by 8260
 - Confirm all hits by 8260
 - Run _____ oxy's on highest hit
 - Run _____ oxy's on all hits

6 Remarks

DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by _____		Date 9-22-15	Time 11:10	Received by J. Shropton		Date 9/2/15	Time _____
Standard <input checked="" type="radio"/> 5 day 72 hour 4 day EDF/EDD 48 hour 24 hour			Relinquished by _____		Date _____	Time _____	Received by _____		Date _____	Time _____
8 Data Package (circle if required)			Relinquished by Commercial Carrier:		Received by _____		Date _____		Time _____	
Type I - Full Type VI (Raw Data)			UPS _____ FedEx _____ Other _____		Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes _____ No _____	
EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____										

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____ Group # _____ Sample # _____
 For Eurofins Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested												
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers			<input type="checkbox"/> BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <i>Column</i> <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method												
Site Address 232 East Woodin Avenue, CHELAN, WA																		
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire																		
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																		
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)																		
Consultant Phone # (925) 551-7444 x180																		
Sampler GM / AN			3 Composite															
2 Sample Identification		Collected		Grab	Soil	Water	Oil	Total Number of Containers										
		Date	Time															
MW-30		9/21/15	0625	X		W		X										
MW-31		↓	0540	↓		↓		↓										
MW-37		↓	0520	↓		↓		↓										

SCR #: _____

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

6 Remarks

DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERS. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
 72 hour 48 hour **EDF/EDD** 24 hour

Relinquished by _____	Date 9-22-15	Time 11:10	Received by J. M. / EUE	Date 9/22/15	Time 11:10
Relinquished by _____	Date _____	Time _____	Received by _____	Date _____	Time _____

8 Data Package (circle if required)

Type I - Full **EDD (circle if required)**
 Type VI (Raw Data) CVX-RTBU-FL_05 (default)
 Other: _____

Relinquished by Commercial Carrier: **UPS** _____ FedEx _____ Other _____

Received by _____ Date _____ Time _____

Temperature Upon Receipt _____ °C Custody Seals Intact? Yes No

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____

For Eurofins Lancaster Laboratories use only
 Group # _____ Sample # _____
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested									
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface			<input type="checkbox"/> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method NITRATE/SULFATE (EPA 300.0) FERROUS IRON SAM 350 Fe-B 1193 DISSOLVED MANGANESE (6010B) ALKALINITY (2320 B-1991)									
Site Address 232 East Woodin Avenue, CHELAN, WA			Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire			SCR #: _____									
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568			<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits									
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)			Total Number of Containers _____												
Consultant Phone # (925) 551-7444 x180															
Sampler GM / AW															
2 Sample Identification		Collected		Grab	Composite										
		Date	Time												
MW-6		9/21/15	1120	X											
MW-7			1230												
MW-8			1010												
MW-15			0455												
MW-17			1100												
MW-18			1210												
MW-21			0650												
MW-23			0755												
MW-28			0955												

SCR #: _____

Results in Dry Weight
 J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm MTBE + Naphthalene
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run _____ oxy's on highest hit
 Run _____ oxy's on all hits

6 Remarks

DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERS. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
 72 hour 48 hour 24 hour **EDF/EDD**

Relinquished by <i>[Signature]</i>	Date 9/21/15	Time _____	Received by _____	Date _____	Time _____
Relinquished by _____	Date _____	Time _____	Received by _____	Date _____	Time _____

8 Data Package (circle if required)

Type I - Full **EDD (circle if required)**
 Type VI (Raw Data) CVX-RTBU-FL_05 (default)
 Other: _____

Relinquished by Commercial Carrier: **UPS** FedEx _____ Other _____

Received by _____ Date _____ Time _____

Temperature Upon Receipt _____ °C Custody Seals Intact? Yes No

Appendix F:
Groundwater Sampling Laboratory Analytical Reports

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

June 30, 2015

Project: 96590

Submittal Date: 06/18/2015

Group Number: 1570204

PO Number: 0015164161

Release Number: HETRICK

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA NA Water	7934016
MW-8 Grab Groundwater	7934017
MW-8 Filtered Grab Groundwater	7934018
MW-30 Grab Groundwater	7934019
MW-31 Grab Groundwater	7934020
MW-37 Grab Groundwater	7934021

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO	Leidos	Attn: Russ Shropshire
ELECTRONIC COPY TO	Leidos	Attn: Jamalyn Agyei
ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA NA Water
Facility# 96590 Job# 386610
232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934016
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015

Chevron

Submitted: 06/18/2015 09:45

6001 Bollinger Canyon Road

Reported: 06/30/2015 14:27

L4310

San Ramon CA 94583

EWCQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602	NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602	1	15175A94A	06/29/2015 08:55	Jeremy C Giffin	1
		NWTPH-Gx					
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 08:55	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 08:55	Jeremy C Giffin	1

Sample Description: MW-8 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934017
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015 11:10 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

EWCM8

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	80	28	1
08271	Heavy Range Organics C24-C40	n.a.	100	66	1
GC Petroleum Hydrocarbons w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	10,200	250	5
00228	Sulfate	14808-79-8	38,200	1,500	5
SM 2320 B-1997					
	ug/l as CaCO3		ug/l as CaCO3		
12150	Total Alkalinity to pH 4.5	n.a.	231,000	700	1
SM 3500-Fe B 1997					
	ug/l		ug/l		
08344	Ferrous Iron	n.a.	N.D.	10	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-8 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934017
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015 11:10 by JP

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

EWCM8

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 09:46	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 09:46	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 09:46	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151740026A	06/23/2015 18:56	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151760007A	06/26/2015 13:57	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151760009A	06/29/2015 18:30	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151760009A	06/25/2015 20:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151760007A	06/25/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15169667601B	06/18/2015 20:52	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15169667601B	06/18/2015 20:52	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15174009204A	06/24/2015 03:20	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15173834401A	06/22/2015 19:00	Daniel S Smith	1

Sample Description: MW-8 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934018
 LL Group # 1570204
 Account # 11260

Project Name: 96590

Collected: 06/17/2015 11:10 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 19.0	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151771848003	06/30/2015 04:53	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151771848003	06/29/2015 09:10	Christopher M Klumpp	1

Sample Description: MW-30 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934019
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015 07:30 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

EWC30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 10:12	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 10:12	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 10:12	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151760007A	06/26/2015 14:18	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151760009A	06/29/2015 18:52	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151760009A	06/25/2015 20:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151760007A	06/25/2015 20:00	Samantha L Bronder	1

Sample Description: MW-31 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934020
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015 08:30 by JP

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

EWC31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	41	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 10:38	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 10:38	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 10:38	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151760007A	06/26/2015 14:40	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151760009A	06/29/2015 19:14	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151760009A	06/25/2015 20:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151760007A	06/25/2015 20:00	Samantha L Bronder	1

Sample Description: MW-37 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Ave - Chelan, WA

LL Sample # WW 7934021
LL Group # 1570204
Account # 11260

Project Name: 96590

Collected: 06/17/2015 09:30 by JP

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 06/18/2015 09:45

Reported: 06/30/2015 14:27

EWC37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles SW-846 8021B ug/l					
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	86	28	1
08271	Heavy Range Organics C24-C40	n.a.	98	66	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 11:04	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 11:04	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 11:04	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151760007A	06/26/2015 15:01	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151760009A	06/29/2015 19:36	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151760009A	06/25/2015 20:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151760007A	06/25/2015 20:00	Samantha L Bronder	1

Quality Control Summary

Client Name: Chevron
Reported: 06/30/2015 14:27

Group Number: 1570204

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15175A94A	Sample number(s): 7934016-7934017,7934019-7934021							
Benzene	N.D.	0.2	ug/l	102	95	80-120	7	30
Ethylbenzene	N.D.	0.2	ug/l	105	100	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	90	92	80-123	3	30
Toluene	N.D.	0.2	ug/l	105	100	80-120	6	30
Total Xylenes	N.D.	0.2	ug/l	109	103	80-120	5	30
Batch number: 151740026A	Sample number(s): 7934017							
Methane	N.D.	3.0	ug/l	109		85-115		
Batch number: 151760007A	Sample number(s): 7934017,7934019-7934021							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	83	78	50-113	7	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 151760009A	Sample number(s): 7934017,7934019-7934021							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	56	49	32-117	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 151771848003	Sample number(s): 7934018							
Manganese	N.D.	0.83	ug/l	101		80-120		
Batch number: 15169667601B	Sample number(s): 7934017							
Nitrate Nitrogen	N.D.	50.	ug/l	100		90-111		
Sulfate	N.D.	300.	ug/l	98		90-110		
Batch number: 15173834401A	Sample number(s): 7934017							
Ferrous Iron	N.D.	10.	ug/l	99		93-105		
Batch number: 15174009204A	Sample number(s): 7934017							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	102		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151740026A	Sample number(s): 7934017 UNSPK: 7934017								
Methane	101	88	46-129	14	20				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 06/30/2015 14:27

Group Number: 1570204

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151771848003 Manganese	99 (2)	93 (2)	75-125	1	20	2,450	2,400	2	20
Batch number: 15169667601B Nitrate Nitrogen	103		90-110			N.D.	N.D.	0 (1)	15
Sulfate	94		90-110			N.D.	N.D.	0 (1)	15
Batch number: 15173834401A Ferrous Iron	93	96	93-105	3	6	N.D.	N.D.	0 (1)	5
Batch number: 15174009204A Total Alkalinity to pH 4.5	48*		90-110			N.D.	N.D.	0 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Method 8021 Water Master
Batch number: 15175A94A

	Trifluorotoluene-P	Trifluorotoluene-F
7934016	86	77
7934017	85	77
7934019	86	77
7934020	86	76
7934021	86	78
Blank	86	75
LCS	85	94
LCSD	84	94
Limits:	51-120	63-135

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 151740026A

	Propene
7934017	87
Blank	100
LCS	97
MS	85
MSD	77
Limits:	47-116

Analysis Name: NWTPH-Dx water
Batch number: 151760007A

	Orthoterphenyl
7934017	98
7934019	81
7934020	93

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 06/30/2015 14:27

Group Number: 1570204

Surrogate Quality Control

7934021	90
Blank	78
LCS	95
LCSD	89

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 151760009A

Orthoterphenyl

7934017	81
7934019	79
7934020	74
7934021	77
Blank	67
LCS	77
LCSD	68

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only

Group # 1570204 Sample # 1934016-21

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks							
Facility # SS#9-6590-OML G-R#386610 WBS				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Composite				Total Number of Containers BTEX + MTBE <input type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Napthth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method EPH 300.00 NITRATE / SULFATE 6100 Fe:B FERROUS IRON 3500 1197 DISSOLVED MANGANESE 6010 ALKALINITY / METHANE 175M												SCR #: _____							
Site Address 232 East Woodin Avenue, CHELAN, WA																											
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire																											
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																											
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)																											
Consultant Phone # (925) 551-7444 x180																											
Sampler				Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits <input type="checkbox"/>												<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits											
2 Sample Identification			3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	Napthth	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	6 Remarks		
Date	Time	Grab	Composite																								
<i>QA</i>	<i>6.17.15</i>		<input checked="" type="checkbox"/>							<i>5</i>	<input checked="" type="checkbox"/>															DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUM CLEANUP AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED. SHORT HOURS MW-8	
<i>MW-8</i>	<i>6.17</i>	<i>1110</i>	<input checked="" type="checkbox"/>							<i>5</i>	<input checked="" type="checkbox"/>																
<i>MW-30</i>	<i>6.17</i>	<i>0730</i>	<input checked="" type="checkbox"/>							<i>5</i>	<input checked="" type="checkbox"/>																
<i>MW-31</i>	<i>6.17</i>	<i>0830</i>	<input checked="" type="checkbox"/>							<i>5</i>	<input checked="" type="checkbox"/>																
<i>MW-37</i>	<i>6.17</i>	<i>0930</i>	<input checked="" type="checkbox"/>							<i>5</i>	<input checked="" type="checkbox"/>																
7 Turnaround Time Requested (TAT) (please circle) Standard <input checked="" type="radio"/> 5 day 4 day EDF/EDD 72 hour 48 hour 24 hour				Relinquished by <i>[Signature]</i> Date _____ Time _____ Received by _____ Date _____ Time _____				Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Temperature Upon Receipt <i>1.1-2.0°C</i>		Received by <i>[Signature]</i> Date <i>6-18-15</i> Time <i>945</i>		Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No													
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____				Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Temperature Upon Receipt <i>1.1-2.0°C</i>		Received by <i>[Signature]</i> Date <i>6-18-15</i> Time <i>945</i>		Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No															

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

July 06, 2015

Project: 96590

Submittal Date: 06/19/2015

Group Number: 1570534

PO Number: 0015164161

Release Number: HETRICK

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA NA Water	7936062
MW-7 Grab Groundwater	7936063
MW-7 Filtered Grab Groundwater	7936064
MW-15 Grab Groundwater	7936065
MW-15 Filtered Grab Groundwater	7936066
MW-17 Grab Groundwater	7936067
MW-17 Filtered Grab Groundwater	7936068
MW-18 Grab Groundwater	7936069
MW-18 Filtered Grab Groundwater	7936070
MW-21 Grab Groundwater	7936071
MW-21 Filtered Grab Groundwater	7936072
MW-23 Grab Groundwater	7936073
MW-23 Filtered Grab Groundwater	7936074
MW-27 Grab Groundwater	7936075
MW-28 Grab Groundwater	7936076
MW-28 Filtered Grab Groundwater	7936077
DUP Grab Groundwater	7936078

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Leidos
COPY TO
ELECTRONIC Leidos

Attn: Russ Shropshire

Attn: Jamalyn Agyei

COPY TO
ELECTRONIC
COPY TO

Gettler-Ryan Inc.

Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA NA Water
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936062
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

6590Q

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602	NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602	1	15175A94A	06/29/2015 09:21	Jeremy C Giffin	1
		NWTPH-Gx					
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 09:21	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 09:21	Jeremy C Giffin	1

Sample Description: MW-7 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936063
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 13:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

65907

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	2,000	50	1
GC Volatiles					
SW-846 8021B			ug/l	ug/l	
02102	Benzene	71-43-2	15	0.5	1
02102	Ethylbenzene	100-41-4	14	0.5	1
02102	Toluene	108-88-3	5.0	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	7.0	1
Reporting limits were raised due to interference from the sample matrix.					
GC Miscellaneous					
SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	230	3.0	1
GC Petroleum Hydrocarbons					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	3,500	28	1
08271	Heavy Range Organics C24-C40	n.a.	760	66	1
GC Petroleum Hydrocarbons w/Si					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	2,300	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	290	66	1
Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.					
Wet Chemistry					
EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	N.D.	1,500	5
SM 2320 B-1997			ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	540,000	700	1
SM 3500-Fe B 1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	10,600	1,000	100

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-7 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936063
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 13:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

65907

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 12:21	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 12:21	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 12:21	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	2	15175A94A	06/29/2015 12:21	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/26/2015 13:21	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151760007A	06/26/2015 15:23	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151760009A	06/29/2015 19:58	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151760009A	06/25/2015 20:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151760007A	06/25/2015 20:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667901A	06/19/2015 22:19	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667901A	06/19/2015 22:19	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15180003201A	06/29/2015 15:40	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834401A	06/29/2015 07:45	Daniel S Smith	100

Sample Description: MW-7 Filtered Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936064
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 13:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 701	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151801848002	07/01/2015 08:15	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848003	06/25/2015 09:01	Christopher M Klumpp	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	2	151801848002	06/30/2015 22:00	Annamaria Kuhns	1

Sample Description: MW-15 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936065
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 10:32

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59015

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	1,600	50	1
GC Volatiles					
SW-846 8021B			ug/l	ug/l	
02102	Benzene	71-43-2	9.0	0.5	1
02102	Ethylbenzene	100-41-4	0.7	0.5	1
02102	Toluene	108-88-3	N.D.	2.0	1
02102	Total Xylenes	1330-20-7	19	1.5	1
GC Miscellaneous					
SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	15,000	140	5
08271	Heavy Range Organics C24-C40	n.a.	N.D.	340	5
GC Petroleum Hydrocarbons w/Si					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	14,000	140	5
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	340	5
Due to the dilution of the sample extract, capric acid recovery can not be determined.					
Wet Chemistry					
EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	10,200	250	5
00228	Sulfate	14808-79-8	50,600	1,500	5
SM 2320 B-1997			ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	193,000	700	1
SM 3500-Fe B 1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	34	10	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-15 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936065
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 10:32

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59015

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 12:46	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 12:46	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 12:46	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 11:07	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	07/01/2015 09:36	Christine E Dolman	5
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 14:19	Christine E Dolman	5
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667901A	06/19/2015 22:36	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667901A	06/19/2015 22:36	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15178004203A	06/28/2015 00:21	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834401A	06/29/2015 07:45	Daniel S Smith	1

Sample Description: MW-15 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936066
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 10:32

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 55.8	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 06:07	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: MW-17 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936067
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 06:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59017

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	7,200	250	5
GC Volatiles					
SW-846 8021B			ug/l	ug/l	
02102	Benzene	71-43-2	23	2.5	5
02102	Ethylbenzene	100-41-4	660	2.5	5
02102	Toluene	108-88-3	73	2.5	5
02102	Total Xylenes	1330-20-7	890	7.5	5
GC Miscellaneous					
SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	5.7	3.0	1
GC Petroleum Hydrocarbons					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	590	29	1
08271	Heavy Range Organics C24-C40	n.a.	250	68	1
GC Petroleum Hydrocarbons w/Si					
ECY 97-602 NWTPH-Dx modified			ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	83	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	12,900	250	5
00228	Sulfate	14808-79-8	31,400	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	435,000	700	1
SM 3500-Fe B 1997					
08344	Ferrous Iron	n.a.	2,500	200	20

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-17 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936067
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 06:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59017

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 17:28	Jeremy C Giffin	5
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 17:28	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 17:28	Jeremy C Giffin	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 11:25	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 17:18	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 11:44	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667901B	06/19/2015 22:53	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667901B	06/19/2015 22:53	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15180003201A	06/29/2015 13:09	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834401A	06/29/2015 07:45	Daniel S Smith	20

Sample Description: MW-17 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936068
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 06:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 765	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 05:48	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: MW-18 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936069
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 07:33

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59018

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	68	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
00368	Nitrate Nitrogen	14797-55-8	13,700	250	5
00228	Sulfate	14808-79-8	31,900	1,500	5
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	256,000	700	1
SM 3500-Fe B 1997					
08344	Ferrous Iron	n.a.	100	10	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-18 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936069
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 07:33

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59018

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 14:03	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 14:03	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 14:03	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 11:43	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 16:14	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 12:06	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667901B	06/19/2015 23:09	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667901B	06/19/2015 23:09	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15178004201A	06/27/2015 14:51	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834401A	06/29/2015 07:45	Daniel S Smith	1

Sample Description: MW-18 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936070
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 07:33

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 1,680	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 06:10	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: MW-21 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936071
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 08:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59021

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles ECY 97-602 NWTPH-Gx ug/1					
08274	NWTPH-Gx water C7-C12	n.a.	2,400	50	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: the sample analysis was repeated using a previously opened container, and the surrogate was within specification with a 126% recovery. The result of the reanalysis was 2400 ppb.					
GC Volatiles SW-846 8021B ug/1					
02102	Benzene	71-43-2	1,100	5.0	10
02102	Ethylbenzene	100-41-4	15	0.5	1
02102	Toluene	108-88-3	24	0.5	1
02102	Total Xylenes	1330-20-7	20	1.5	1
GC Miscellaneous SW-846 8015B modified ug/1					
07105	Methane	74-82-8	85	3.0	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/1					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	770	29	1
08271	Heavy Range Organics C24-C40	n.a.	420	67	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/1					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	55	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry EPA 300.0 ug/1					
00368	Nitrate Nitrogen	14797-55-8	590	250	5
00228	Sulfate	14808-79-8	3,300	1,500	5
SM 2320 B-1997 ug/1 as CaCO3					
12150	Total Alkalinity to pH 4.5	n.a.	367,000	700	1
SM 3500-Fe B 1997 ug/1					
08344	Ferrous Iron	n.a.	17,800	500	50

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-21 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936071
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 08:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59021

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15181A20A	06/30/2015 13:03	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 17:53	Marie D Beamenderfer	10
02102	Method 8021 Water Master	SW-846 8021B	1	15181A53A	06/30/2015 15:01	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 17:53	Marie D Beamenderfer	10
01146	GC VOA Water Prep	SW-846 5030B	2	15181A20A	06/30/2015 13:03	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	3	15181A53A	06/30/2015 15:01	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 12:01	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 18:22	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 12:28	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667601A	06/19/2015 18:52	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667601A	06/19/2015 18:52	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15178004201A	06/27/2015 17:02	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834402A	06/27/2015 09:55	Daniel S Smith	50

Sample Description: MW-21 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936072
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 08:30

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 752	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 06:19	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: MW-23 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936073
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 09:29

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59023

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	30	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	71	1
GC Petroleum Hydrocarbons w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	71	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	4,100	250	5
00228	Sulfate	14808-79-8	19,200	1,500	5
SM 2320 B-1997					
	ug/l as CaCO3		ug/l as CaCO3		
12150	Total Alkalinity to pH 4.5	n.a.	115,000	700	1
SM 3500-Fe B 1997					
	ug/l		ug/l		
08344	Ferrous Iron	n.a.	3,000	200	20

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-23 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936073
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 09:29

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59023

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 14:28	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 14:28	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 14:28	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 12:20	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 16:35	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 12:50	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667601A	06/19/2015 19:08	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15170667601A	06/19/2015 19:08	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15180003201A	06/29/2015 12:39	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834402A	06/27/2015 09:55	Daniel S Smith	20

Sample Description: MW-23 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936074
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 09:29

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 25.3	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 06:23	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: MW-27 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936075
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 11:40

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

59027

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	550	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	90,000	2,800	100
08271	Heavy Range Organics C24-C40	n.a.	N.D.	6,600	100
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	57,000	2,800	100
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	6,600	100
Due to the dilution of the sample extract, capric acid recovery can not be determined.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 14:54	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 14:54	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 14:54	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	07/01/2015 09:57	Christine E Dolman	100
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 19:48	Christine E Dolman	100
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1

Sample Description: MW-28 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936076
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 12:25

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59028

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	21,900	500	10
00228	Sulfate	14808-79-8	38,700	1,500	5
SM 2320 B-1997					
	ug/l as CaCO3		ug/l as CaCO3		
12150	Total Alkalinity to pH 4.5	n.a.	309,000	700	1
SM 3500-Fe B 1997					
	ug/l		ug/l		
08344	Ferrous Iron	n.a.	74	10	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
---------	---------------	--------	--------	--------	------------------------	---------	-----------------

Sample Description: MW-28 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936076
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015 12:25

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

59028

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 15:19	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 15:19	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 15:19	Jeremy C Giffin	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 12:38	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 16:56	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 13:35	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15170667601A	06/20/2015 13:42	Clinton M Wilson	10
00228	Sulfate	EPA 300.0	1	15170667601A	06/19/2015 19:24	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15178004203A	06/28/2015 00:56	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834402A	06/27/2015 09:55	Daniel S Smith	1

Sample Description: MW-28 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936077
 LL Group # 1570534
 Account # 11260

Project Name: 96590

Collected: 06/18/2015 12:25

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/06/2015 15:24

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l N.D.	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848005	06/27/2015 06:26	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848005	06/26/2015 09:52	Christopher M Klumpp	1

Sample Description: DUP Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 7936078
LL Group # 1570534
Account # 11260

Project Name: 96590

Collected: 06/18/2015

Chevron

Submitted: 06/19/2015 09:50

6001 Bollinger Canyon Road

Reported: 07/06/2015 15:24

L4310

San Ramon CA 94583

6590D

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
ECY 97-602 NWTPH-Gx			ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	1,200	50	1
GC Volatiles					
SW-846 8021B			ug/l	ug/l	
02102	Benzene	71-43-2	7.9	0.5	1
02102	Ethylbenzene	100-41-4	0.8	0.5	1
02102	Toluene	108-88-3	N.D.	2.0	1
02102	Total Xylenes	1330-20-7	18	1.5	1
GC Petroleum					
ECY 97-602 NWTPH-Dx			ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	3,900	29	1
08271	Heavy Range Organics C24-C40	n.a.	360	68	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15175A94A	06/29/2015 15:45	Jeremy C Giffin	1
02102	Method 8021 Water Master	SW-846 8021B	1	15175A94A	06/29/2015 15:45	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15175A94A	06/29/2015 15:45	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 17:39	Christine E Dolman	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1

Quality Control Summary

Client Name: Chevron
Reported: 07/06/2015 15:24

Group Number: 1570534

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15175A94A	Sample number(s): 7936062-7936063,7936065,7936067,7936069,7936071,7936073,7936075-7936076,7936078							
Benzene	N.D.	0.2	ug/l	102	95	80-120	7	30
Ethylbenzene	N.D.	0.2	ug/l	105	100	80-120	5	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	90	92	80-123	3	30
Toluene	N.D.	0.2	ug/l	105	100	80-120	6	30
Total Xylenes	N.D.	0.2	ug/l	109	103	80-120	5	30
Batch number: 15181A20A	Sample number(s): 7936071							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	93	92	80-123	0	30
Batch number: 15181A53A	Sample number(s): 7936071							
Ethylbenzene	N.D.	0.2	ug/l	99	99	80-120	0	30
Toluene	N.D.	0.2	ug/l	99	99	80-120	0	30
Total Xylenes	N.D.	0.2	ug/l	103	103	80-120	0	30
Batch number: 151760012A	Sample number(s): 7936063,7936065,7936067,7936069,7936071,7936073,7936076							
Methane	N.D.	3.0	ug/l	102		85-115		
Batch number: 151760007A	Sample number(s): 7936063							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	83	78	50-113	7	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 151800006A	Sample number(s): 7936065,7936067,7936069,7936071,7936073,7936075-7936076,7936078							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	82	82	50-113	0	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 151760009A	Sample number(s): 7936063							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	56	49	32-117	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 151800007A	Sample number(s): 7936065,7936067,7936069,7936071,7936073,7936075-7936076							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	62	58	32-117	8	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 151751848005	Sample number(s): 7936066,7936068,7936070,7936072,7936074,7936077							
Manganese	N.D.	0.83	ug/l	108		80-120		
Batch number: 151801848002	Sample number(s): 7936064							
Manganese	N.D.	0.83	ug/l	97		80-120		
Batch number: 15170667601A	Sample number(s): 7936071,7936073,7936076							
Nitrate Nitrogen	N.D.	50.	ug/l	100		90-111		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1570534
Reported: 07/06/2015 15:24

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Sulfate	N.D.	300.	ug/l	100		90-110		
Batch number: 15170667901A	Sample number(s): 7936063,7936065							
Nitrate Nitrogen	N.D.	50.	ug/l	100		90-111		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 15170667901B	Sample number(s): 7936067,7936069							
Nitrate Nitrogen	N.D.	50.	ug/l	100		90-111		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 15178004201A	Sample number(s): 7936069,7936071							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	106		90-110		
Batch number: 15178004203A	Sample number(s): 7936065,7936076							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	107		90-110		
Batch number: 15178834401A	Sample number(s): 7936063,7936065,7936067,7936069							
Ferrous Iron	N.D.	10.	ug/l	99		93-105		
Batch number: 15178834402A	Sample number(s): 7936071,7936073,7936076							
Ferrous Iron	N.D.	10.	ug/l	99		93-105		
Batch number: 15180003201A	Sample number(s): 7936063,7936067,7936073							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	106		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151760012A	Sample number(s): 7936063,7936065,7936067,7936069,7936071,7936073,7936076 UNSPK: 7936063								
Methane	82	66	46-129	4	20				
Batch number: 151751848005	Sample number(s): 7936066,7936068,7936070,7936072,7936074,7936077 UNSPK: 7936068 BKG: 7936068								
Manganese	98	102	75-125	1	20	765	771	1	20
Batch number: 151801848002	Sample number(s): 7936064 UNSPK: P945802 BKG: P945802								
Manganese	113 (2)	97 (2)	75-125	3	20	2,210	2,220	0	20
Batch number: 15170667601A	Sample number(s): 7936071,7936073,7936076 UNSPK: P935450 BKG: P935450								
Nitrate Nitrogen	98		90-110			730	720	1 (1)	15
Sulfate	114*		90-110			6,700	6,700	1 (1)	15
Batch number: 15170667901A	Sample number(s): 7936063,7936065 UNSPK: P935448 BKG: P935448								
Nitrate Nitrogen	102		90-110			1,700	1,700	4 (1)	15
Sulfate	100		90-110			11,800	12,200	3 (1)	15

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 07/06/2015 15:24

Group Number: 1570534

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15170667901B	Sample number(s): 7936067,7936069 UNSPK: P936058 BKG: P936058								
Nitrate Nitrogen	99		90-110			N.D.	N.D.	0 (1)	15
Sulfate	94		90-110			16,400	17,100	4 (1)	15
Batch number: 15178004201A	Sample number(s): 7936069,7936071 UNSPK: P942202 BKG: P942202								
Total Alkalinity to pH 4.5	77*	68*	90-110	7*	5	116,000	117,000	0	5
Batch number: 15178004203A	Sample number(s): 7936065,7936076 UNSPK: P946817 BKG: P946817								
Total Alkalinity to pH 4.5	27*		90-110			194,000	197,000	1	5
Batch number: 15178834401A	Sample number(s): 7936063,7936065,7936067,7936069 UNSPK: 7936067 BKG: 7936067								
Ferrous Iron	100	97	93-105	3	6	2,500	2,700	9* (1)	5
Batch number: 15178834402A	Sample number(s): 7936071,7936073,7936076 UNSPK: P937897 BKG: P937897								
Ferrous Iron	96	104	93-105	5	6	890	900	2 (1)	5
Batch number: 15180003201A	Sample number(s): 7936063,7936067,7936073 UNSPK: 7936073 BKG: 7936073								
Total Alkalinity to pH 4.5	97		90-110			115,000	115,000	0	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Method 8021 Water Master
Batch number: 15175A94A

	Trifluorotoluene-P	Trifluorotoluene-F
7936062	87	76
7936063	111	143*
7936065	99	117
7936067	105	103
7936069	87	76
7936071	89	
7936073	87	77
7936075	84	77
7936076	85	77
7936078	96	105
Blank	86	75
LCS	85	94
LCSD	84	94
Limits:	51-120	63-135

Analysis Name: NWTPh-Gx water C7-C12
Batch number: 15181A20A

	Trifluorotoluene-F
7936071	144*
Blank	94
LCS	105

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 07/06/2015 15:24

Group Number: 1570534

Surrogate Quality Control

LCS D 104
Limits: 63-135

Analysis Name: Method 8021 Water Master
Batch number: 15181A53A
Trifluorotoluene-P

7936071 114
Blank 100
LCS 100
LCS D 100
Limits: 51-120

Analysis Name: NWT PH-Dx water
Batch number: 151760007A
Orthoterphenyl

7936063 90
Blank 78
LCS 95
LCS D 89
Limits: 50-150

Analysis Name: NWT PH-Dx water w/ 10g Si Gel
Batch number: 151760009A
Orthoterphenyl

7936063 90
Blank 67
LCS 77
LCS D 68
Limits: 50-150

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 151760012A
Propene

7936063 71
7936065 79
7936067 76
7936069 78
7936071 80
7936073 78
7936076 80
Blank 102
LCS 102
MS 68
MSD 67
Limits: 47-116

Analysis Name: NWT PH-Dx water
Batch number: 151800006A
Orthoterphenyl

7936065 85
7936067 96
7936069 98
7936071 100
7936073 81
7936075 1036*

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 07/06/2015 15:24

Group Number: 1570534

Surrogate Quality Control

7936076	63
7936078	88
Blank	81
LCS	100
LCSD	101

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 151800007A
Orthoterphenyl

7936065	84
7936067	84
7936069	79
7936071	76
7936073	78
7936075	162*
7936076	81
Blank	75
LCS	82
LCSD	78

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only
 Group # 1570534 Sample # 7936062-78
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information			4 Matrix			5 Analyses Requested									
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface			<input type="checkbox"/> BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA-YPH METHANE <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method NITRATE / SULFATE EPA 300.0 FERRIC IRON (SM-20 80016-6197) ALKALINITY (2320 B-191) DISSOLVED MANGANESE									
Site Address 232 East Woodin Avenue, CHELAN, WA			Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire			Total Number of Containers									
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568			<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air												
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)															
Consultant Phone # (925) 551-7444 x180															
Sampler J. Payne															

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

2 Sample Identification		3 Collected		3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA-YPH METHANE	Lead	Total	Diss.	Method	NITRATE / SULFATE EPA 300.0	FERRIC IRON (SM-20 80016-6197)	ALKALINITY (2320 B-191)	DISSOLVED MANGANESE	
		Date	Time																							
	QA	6-18-15		X			X		2	X				X												
	MW-7	6-18	1330	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-15	6-18	1032	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-17	6-18	0630	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-18	6-18	0733	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-21	6-18	0830	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-23	6-18	0919	X			X		13	X				X	X	X	X					X	X	X	X	
	MW-27	6-18	1140	X			X		5	X				X	X	X	X					X	X	X	X	
	MW-28	6-18	1225	X			X		13	X				X	X	X	X					X	X	X	X	
	DUP	6-18		X			X		5	X				X	X	X	X									

6 Remarks

DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.

DUP SAMPLE WITHOUT SILICA GEL CLEANUP ONLY!

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
 72 hour 48 hour **EDF/EDD** 24 hour

Relinquished by <u>[Signature]</u>	Date <u>6-18-15</u>	Time <u>1400</u>	Received by _____	Date _____	Time _____
Relinquished by _____	Date _____	Time _____	Received by _____	Date _____	Time _____

8 Data Package (circle if required)

Type I - Full
 Type VI (Raw Data)

EDD (circle if required)
 CVX-RTBU-FL_05 (default)
 Other: _____

Relinquished by Commercial Carrier: UPS FedEx _____ Other _____

Received by [Signature]

Date 6/19/15 Time 0950

Temperature Upon Receipt 0.8-4.0C

Custody Seals Intact? Yes No

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

July 08, 2015

Project: 96590

Submittal Date: 06/20/2015
Group Number: 1570808
PO Number: 0015164161
Release Number: HETRICK
State of Sample Origin: WA

Client Sample Description

QA NA Water
MW-6 Grab Groundwater
MW-6 Filtered Grab Groundwater

Lancaster Labs (LL)

7937872
7937873
7937874

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO
Leidos

Attn: Russ Shropshire

ELECTRONIC COPY TO
Leidos

Attn: Jamalyn Agyei

ELECTRONIC COPY TO
Gettler-Ryan Inc.

Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

July 8, 2015

Mr. Russ Shropshire
Leidos
Suite 101
18912 N. Creek Parkway
Bothell, WA 98011

Dear Mr. Shropshire:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No.: 96590
Group No.: 1570808

ELLE Sample No.	Client Sample Identification	Collection Date
7937873	MW-6	6/19/15

The correction to the data affects the Volatile Headspace Hydrocarbon analysis only.

In response to your inquiry regarding Volatile Headspace Hydrocarbon analysis it was determined that all seven Volatile Headspace Hydrocarbons were reported but the chain of custody only requested Methane. All analytes were reported as not detected (ND) with the exception of n-butane which was detected at 2.1 µg/L. The analytical report has been revised to report Methane only.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1375. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Amek Carter
Project Manager
Environmental Client Services

AC/mc
Enclosures

Sample Description: QA NA Water
 Facility# 96590 Job# 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7937872
 LL Group # 1570808
 Account # 11260

Project Name: 96590

Collected: 06/19/2015

Chevron

Submitted: 06/20/2015 10:50

6001 Bollinger Canyon Road
 L4310

Reported: 07/08/2015 13:25

San Ramon CA 94583

QAERC

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 n.a.	ug/l N.D.	ug/l 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15176A53A	06/26/2015 23:05	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15176A53A	06/26/2015 23:05	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15176A53A	06/26/2015 23:05	Marie D Beamenderfer	1

Sample Description: MW-6 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7937873
LL Group # 1570808
Account # 11260

Project Name: 96590

Collected: 06/19/2015 12:00 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 06/20/2015 10:50

Reported: 07/08/2015 13:25

EWCM6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	340	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	3.0	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	2.0	1
02102	Toluene	108-88-3	0.8	0.5	1
02102	Total Xylenes	1330-20-7	2.0	1.5	1
Reporting limits were raised due to interference from the sample matrix.					
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	2,200	28	1
08271	Heavy Range Organics C24-C40	n.a.	390	66	1
GC Petroleum Hydrocarbons w/Si					
	ECY 97-602 NWTPH-Dx modified		ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					
Wet Chemistry					
	EPA 300.0		ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,400	1,500	5
	SM 2320 B-1997		ug/l as CaCO3	ug/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	680,000	700	1
	SM 3500-Fe B 1997		ug/l	ug/l	
08344	Ferrous Iron	n.a.	320	10	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial# Batch#	Analysis Date and Time	Analyst	Dilution Factor
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Sample Description: MW-6 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Ave - Chelan, WA

LL Sample # WW 7937873
LL Group # 1570808
Account # 11260

Project Name: 96590

Collected: 06/19/2015 12:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/20/2015 10:50

L4310

Reported: 07/08/2015 13:25

San Ramon CA 94583

EWCM6

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15176A53A	06/26/2015 23:33	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15176A53A	06/26/2015 23:33	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15176A53A	06/26/2015 23:33	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	151760012A	06/29/2015 13:14	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	151800006A	06/30/2015 18:01	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	151800007A	07/02/2015 13:57	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	151800007A	06/29/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	151800006A	06/29/2015 21:00	Samantha L Bronder	1
00368	Nitrate Nitrogen	EPA 300.0	1	15171667601A	06/20/2015 18:16	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	15171667601A	06/20/2015 18:16	Clinton M Wilson	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15178004201A	06/27/2015 16:15	Kenneth A Bell	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15178834402A	06/27/2015 09:55	Daniel S Smith	1

Sample Description: MW-6 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Ave - Chelan, WA

LL Sample # WW 7937874
 LL Group # 1570808
 Account # 11260

Project Name: 96590

Collected: 06/19/2015 12:00 by JP

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 06/20/2015 10:50

Reported: 07/08/2015 13:25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	ug/l 2,040	ug/l 0.83	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151751848006	06/28/2015 02:18	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848006	06/26/2015 09:52	Christopher M Klumpp	1

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 07/08/2015 13:25

Group Number: 1570808

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15176A53A	Sample number(s): 7937872-7937873							
Benzene	N.D.	0.2	ug/l	102	101	80-120	1	30
Ethylbenzene	N.D.	0.2	ug/l	102	100	80-120	2	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	98	98	80-123	0	30
Toluene	N.D.	0.2	ug/l	101	100	80-120	1	30
Total Xylenes	N.D.	0.2	ug/l	106	105	80-120	1	30
Batch number: 151760012A	Sample number(s): 7937873							
Methane	N.D.	3.0	ug/l	102		85-115		
Batch number: 151800006A	Sample number(s): 7937873							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	82	82	50-113	0	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 151800007A	Sample number(s): 7937873							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	62	58	32-117	8	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 151751848006	Sample number(s): 7937874							
Manganese	N.D.	0.83	ug/l	102		80-120		
Batch number: 15171667601A	Sample number(s): 7937873							
Nitrate Nitrogen	N.D.	50.	ug/l	99		90-111		
Sulfate	N.D.	300.	ug/l	97		90-110		
Batch number: 15178004201A	Sample number(s): 7937873							
Total Alkalinity to pH 4.5	N.D.	700.	ug/l as CaCO3	106		90-110		
Batch number: 15178834402A	Sample number(s): 7937873							
Ferrous Iron	N.D.	10.	ug/l	99		93-105		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151760012A	Sample number(s): 7937873 UNSPK: P936063								
Methane	82	66	46-129	4	20				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 07/08/2015 13:25

Group Number: 1570808

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151751848006 Manganese	97 (2)	91 (2)	75-125	1	20	4,240	4,150	2	20
Batch number: 15171667601A Nitrate Nitrogen	99		90-110			4,300	4,200	2	15
Sulfate	98		90-110			1,770,000	1,780,000	1	15
Batch number: 15178004201A Total Alkalinity to pH 4.5	77*	68*	90-110	7*	5	116,000	117,000	0	5
Batch number: 15178834402A Ferrous Iron	96	104	93-105	5	6	890	900	2 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Method 8021 Water Master
Batch number: 15176A53A

	Trifluorotoluene-P	Trifluorotoluene-F
7937872	100	116
7937873	113	129
Blank	100	111
LCS	100	114
LCSD	100	109
Limits:	51-120	63-135

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 151760012A

	Propene
7937873	68
Blank	102
LCS	102
MS	68
MSD	67
Limits:	47-116

Analysis Name: NWTPH-Dx water
Batch number: 151800006A

	Orthoterphenyl
7937873	100
Blank	81
LCS	100
LCSD	101
Limits:	50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: Chevron
Reported: 07/08/2015 13:25

Group Number: 1570808

Surrogate Quality Control

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 151800007A
Orthoterphenyl

7937873	75
Blank	75
LCS	82
LCSD	78

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only
 Group # 1570808 Sample # 7937872-74
 Instructions on reverse side correspond with circled numbers.

① Client Information			④ Matrix			⑤ Analyses Requested										⑥ Remarks						
Facility # SS#9-6590-OML G-R#386610 WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface			<input type="checkbox"/> BTEX + MTBE <input checked="" type="checkbox"/> 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method NITRITE/NITRATE EPA 300 FERROUS IRON/IRON 3400 Fe-BIUR DISSOLVED MANGANESE ALKALINITY/METHANE										SCR #: _____						
Site Address 232 East Woodin Avenue, CHELAN, WA			<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			Total Number of Containers 2 13										<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits						
Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire			<input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil																			
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568			<input type="checkbox"/> Composite																			
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)			Grab <input type="checkbox"/> Composite <input type="checkbox"/>																			
Consultant Phone # (925) 551-7444 x180			Sampler J. PAYNTE													⑥ REMARKS DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERED. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUM CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.						
② Sample Identification		Collected																				
Date	Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH			Lead	Total	Diss.	Method	
<i>RA</i>	<i>10.19.14</i>	<i>X</i>			<i>X</i>		<i>2</i>	<i>X</i>				<i>X</i>										
<i>MW-6</i>	<i>6.19.14</i>	<i>X</i>			<i>X</i>		<i>13</i>	<i>X</i>				<i>X</i>	<i>X</i>	<i>X</i>								
⑦ Turnaround Time Requested (TAT) (please circle)			Relinquished by <i>[Signature]</i>			Date <i>6.19.15</i>		Time <i>15:00</i>		Received by			Date		Time							
Standard <input checked="" type="radio"/> 5 day 4 day 48 hour																						
EDF/EDD 24 hour																						
⑧ Data Package (circle if required)			Relinquished by Commercial Carrier:			Date			Time			Received by			Date		Time					
Type I - Full			UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Temperature Upon Receipt <u>1.1</u> °C									Received by <i>[Signature]</i> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Date <i>6.20.15</i> Time <i>10:50</i> <i>975</i> <i>① R 6-20-15</i>							
Type VI (Raw Data)			Other: _____																			

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

September 29, 2015

Project: 96590

Submittal Date: 09/22/2015

Group Number: 1594678

PO Number: 0015164161

Release Number: HETRICK

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-6 Grab Groundwater	8056947
MW-6 Filtered Grab Groundwater	8056948
MW-7 Grab Groundwater	8056949
MW-7 Filtered Grab Groundwater	8056950
MW-8 Grab Groundwater	8056951
MW-8 Filtered Grab Groundwater	8056952
MW-15 Grab Groundwater	8056953
MW-15 Filtered Grab Groundwater	8056954
MW-17 Grab Groundwater	8056955
MW-17 Filtered Grab Groundwater	8056956
MW-18 Grab Groundwater	8056957
MW-18 Filtered Grab Groundwater	8056958
MW-21 Grab Groundwater	8056959
MW-21 Filtered Grab Groundwater	8056960
MW-23 Grab Groundwater	8056961
MW-23 Filtered Grab Groundwater	8056962
MW-28 Grab Groundwater	8056963
MW-28 Filtered Grab Groundwater	8056964

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Leidos
COPY TO

Attn: Russ Shropshire

ELECTRONIC Leidos

Attn: Jamalyn Agyei

COPY TO

ELECTRONIC Gettler-Ryan Inc.

Attn: Gettler Ryan

COPY TO

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: MW-6 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056947
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:20 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	5
00228	Sulfate	14808-79-8	10.8	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	665	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	2.0	0.050	5

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 18:20	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 18:20	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008104A	09/24/2015 22:43	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	5

Sample Description: MW-6 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056948
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:20 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/22/2015 10:00

Reported: 09/29/2015 19:03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 3.70	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848004	09/25/2015 05:41	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848004	09/24/2015 11:17	James L Mertz	1

Sample Description: MW-7 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056949
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:30 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	5
00228	Sulfate	14808-79-8	2.5	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	542	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	11.6	0.50	50

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 18:37	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 18:37	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008104A	09/24/2015 22:20	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	50

Sample Description: MW-7 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056950
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:30 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 1.92	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848004	09/25/2015 05:43	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848004	09/24/2015 11:17	James L Mertz	1

Sample Description: MW-8 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056951
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 10:10 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	14.6	0.25	5
00228	Sulfate	14808-79-8	51.2	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	222	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.058	0.010	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 18:54	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 18:54	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008104A	09/24/2015 22:35	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	1

Sample Description: MW-8 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056952
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 10:10 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.174	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848004	09/25/2015 05:51	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848004	09/24/2015 11:17	James L Mertz	1

Sample Description: MW-15 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056953
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 08:55 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	12.2	0.25	5
00228	Sulfate	14808-79-8	50.0	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	183	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.021	0.010	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 19:46	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 19:46	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008104A	09/24/2015 22:28	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	1

Sample Description: MW-15 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056954
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 08:55 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.0227	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848004	09/25/2015 05:54	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848004	09/24/2015 11:17	James L Mertz	1

Sample Description: MW-17 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056955
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:00 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	5
00228	Sulfate	14808-79-8	4.6	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	436	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	1.6	0.020	2

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 20:04	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 20:04	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008103A	09/24/2015 19:43	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	2

Sample Description: MW-17 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056956
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:00 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/22/2015 10:00 L4310
 Reported: 09/29/2015 19:03 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.650	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848004	09/25/2015 05:57	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848004	09/24/2015 11:17	James L Mertz	1

Sample Description: MW-18 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056957
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:10 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	13.2	0.25	5
00228	Sulfate	14808-79-8	32.4	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	247	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.066	0.010	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 20:56	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 20:56	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008103A	09/24/2015 18:22	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	1

Sample Description: MW-18 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056958
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:10 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.0978	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848003	09/27/2015 17:00	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848003	09/27/2015 08:33	James L Mertz	1

Sample Description: MW-21 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056959
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 06:50 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	5
00228	Sulfate	14808-79-8	N.D.	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	349	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	2.5	0.050	5

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 21:13	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 21:13	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008103A	09/24/2015 19:36	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	5

Sample Description: MW-21 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056960
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 06:50 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.945	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848003	09/27/2015 17:09	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848003	09/27/2015 08:33	James L Mertz	1

Sample Description: MW-23 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056961
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 07:55 by GM

Chevron

6001 Bollinger Canyon Road

Submitted: 09/22/2015 10:00

L4310

Reported: 09/29/2015 19:03

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	4.6	0.25	5
00228	Sulfate	14808-79-8	20.2	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	210	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	1.3	0.020	2

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/22/2015 21:30	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 21:30	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008103A	09/24/2015 20:38	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	2

Sample Description: MW-23 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056962
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 07:55 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.0045	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848003	09/27/2015 17:12	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848003	09/27/2015 08:33	James L Mertz	1

Sample Description: MW-28 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056963
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 09:55 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00368	Nitrate Nitrogen	14797-55-8	19.3	0.50	10
00228	Sulfate	14808-79-8	41.0	1.5	5
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	288	0.70	1
		SM 3500-Fe B 1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.55	0.010	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	15265667131A	09/23/2015 10:40	Clinton M Wilson	10
00228	Sulfate	EPA 300.0	1	15265667131A	09/22/2015 21:48	Drew M Gerhart	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15267008103A	09/24/2015 19:50	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15271834401A	09/28/2015 21:30	Daniel S Smith	1

Sample Description: MW-28 Filtered Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8056964
 LL Group # 1594678
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 09:55 by GM Chevron
 Submitted: 09/22/2015 10:00 6001 Bollinger Canyon Road
 Reported: 09/29/2015 19:03 L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l N.D.	mg/l 0.00080	1

General Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.
 All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	152661848003	09/27/2015 17:16	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152661848003	09/27/2015 08:33	James L Mertz	1

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2015 19:03

Group Number: 1594678

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 152661848003 Manganese	Sample number(s): 8056958,8056960,8056962,8056964 N.D.	0.00080	mg/l	100		80-120		
Batch number: 152661848004 Manganese	Sample number(s): 8056948,8056950,8056952,8056954,8056956 N.D.	0.00080	mg/l	98		80-120		
Batch number: 15265667131A Nitrate Nitrogen	Sample number(s): 8056947,8056949,8056951,8056953,8056955,8056957,8056959,8056961,8056963 N.D.	0.050	mg/l	98		90-111		
Sulfate	N.D.	0.30	mg/l	98		90-110		
Batch number: 15267008103A Total Alkalinity to pH 4.5	Sample number(s): 8056955,8056957,8056959,8056961,8056963 N.D.	0.70	mg/l as CaCO3	95		90-110		
Batch number: 15267008104A Total Alkalinity to pH 4.5	Sample number(s): 8056947,8056949,8056951,8056953 N.D.	0.70	mg/l as CaCO3	93		90-110		
Batch number: 15271834401A Ferrous Iron	Sample number(s): 8056947,8056949,8056951,8056953,8056955,8056957,8056959,8056961,8056963 N.D.	0.010	mg/l	99		93-105		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 152661848003 Manganese	Sample number(s): 8056958,8056960,8056962,8056964 96	101	75-125	2	20	0.792	UNSPK: 0.813	P049585 3	BKG: P049585 20
Batch number: 152661848004 Manganese	Sample number(s): 8056948,8056950,8056952,8056954,8056956 P052600 29 (2)	527 (2)	75-125	56*	20	3.07	UNSPK: P052600 3.37	BKG: P052600 10	
Batch number: 15265667131A Nitrate Nitrogen	Sample number(s): 8056947,8056949,8056951,8056953,8056955,8056957,8056959,8056961,8056963 8056951 BKG: 8056951 88*		90-110			14.6	UNSPK: 14.7	0	15

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 09/29/2015 19:03

Group Number: 1594678

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Sulfate	101		90-110			51.2	51.1	0	15
Batch number: 15267008103A	Sample number(s): 8056955,8056957,8056959,8056961,8056963 UNSPK: P056345 BKG: P056345								
Total Alkalinity to pH 4.5	91		90-110			0.94	3.3	111* (1)	5
Batch number: 15267008104A	Sample number(s): 8056947,8056949,8056951,8056953 UNSPK: P058141 BKG: P058141								
Total Alkalinity to pH 4.5	92		90-110			144	145	1	5
Batch number: 15271834401A	Sample number(s): 8056947,8056949,8056951,8056953,8056955,8056957,8056959,8056961,8056963 UNSPK: P060532 BKG: P060532								
Ferrous Iron	99	103	93-105	3	6	0.71	0.69	4	5

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only
 Group # 1594678 Sample # 8056947-64
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks											
Facility # SS#9-6590-OML G-R#386610 WBS Site Address 232 East Woodin Avenue, CHELAN, WA Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler GM / AW				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil			Total Number of Containers 5 BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ NITRATE/SULFATE (EPA 300.0) FERRIC IRON (SM20 3500 Fe-5 1197) DISSOLVED MANGANESE (G0108) ALKALINITY (2320 B-194)										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits											
2 Sample Identification		Collected		3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8260	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	NITRATE/SULFATE (EPA 300.0)	FERRIC IRON (SM20 3500 Fe-5 1197)	DISSOLVED MANGANESE (G0108)	ALKALINITY (2320 B-194)	Remarks	
Date	Time																											
MW-6	9/21/15	1120	X				W		5															X	X	X	X	DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERS. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.
MW-7		1230																										
MW-8		1010																										
MW-15		0855																										
MW-17		1100																										
MW-18		1210																										
MW-21		0650																										
MW-23		0755																										
MW-28		0955																										
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour EDF/EDD 24 hour				Relinquished by Date <u>9/21/15</u> Time _____ Received by _____ Date _____ Time _____		Relinquished by _____ Date _____ Time _____ Received by _____ Date _____ Time _____		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Temperature Upon Receipt <u>14-13</u> °C		Received by Date <u>9/22/15</u> Time <u>1000</u> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

October 22, 2015

Project: 96590

Submittal Date: 09/23/2015

Group Number: 1595115

PO Number: 0015164161

Release Number: HETRICK

State of Sample Origin: WA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA NA Water	8059021
DUP Grab Groundwater	8059022
MW-5 Grab Groundwater	8059023
MW-6 Grab Groundwater	8059024
MW-7 Grab Groundwater	8059025
MW-8 Grab Groundwater	8059026
MW-15 Grab Groundwater	8059027
MW-17 Grab Groundwater	8059028
MW-18 Grab Groundwater	8059029
MW-21 Grab Groundwater	8059030
MW-23 Grab Groundwater	8059031
MW-27 Grab Groundwater	8059032
MW-28 Grab Groundwater	8059033
MW-30 Grab Groundwater	8059034
MW-31 Grab Groundwater	8059035
MW-37 Grab Groundwater	8059036

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Leidos
COPY TO
ELECTRONIC Leidos
COPY TO

Attn: Russ Shropshire

Attn: Jamalyn Agyei

ELECTRONIC
COPY TO

Gettler-Ryan Inc.

Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA NA Water
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059021
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015

Chevron

Submitted: 09/23/2015 09:40

6001 Bollinger Canyon Road
L4310

Reported: 10/22/2015 08:35

San Ramon CA 94583

EWCTB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602	NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602	1	15267A53A	09/25/2015 12:37	Marie D Beamenderfer	1
		NWTPH-Gx					
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 12:37	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 12:37	Marie D Beamenderfer	1

Sample Description: DUP Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059022
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 by GM

Chevron

6001 Bollinger Canyon Road

Submitted: 09/23/2015 09:40

L4310

Reported: 10/22/2015 08:35

San Ramon CA 94583

EWCFD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	6,100	500	10
GC Volatiles					
02102	Benzene	71-43-2	5.3	0.5	1
02102	Ethylbenzene	100-41-4	6.8	0.5	1
02102	Toluene	108-88-3	5.2	0.5	1
02102	Total Xylenes	1330-20-7	14	1.5	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	3,700	28	1
08271	Heavy Range Organics C24-C40	n.a.	490	66	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 20:31	Brett W Kenyon	10
02102	Method 8021 Water Master	SW-846 8021B	1	15271B53A	09/30/2015 18:03	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 20:31	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	2	15271B53A	09/30/2015 18:03	Brett W Kenyon	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 21:24	Thomas C Wildermuth	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-5 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059023
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 07:30 by GM

Chevron

6001 Bollinger Canyon Road
 L4310

Submitted: 09/23/2015 09:40

San Ramon CA 94583

Reported: 10/22/2015 08:35

EWC05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 14:29	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 14:29	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 14:29	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 19:35	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 18:24	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-6 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059024
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:20 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/1 1,100	ug/1 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/1 16	ug/1 0.5	1
02102	Ethylbenzene	100-41-4	1.8	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	4.1	1.5	1
GC Miscellaneous					
07105	Methane	RSKSOP-175 modified 74-82-8	ug/1 N.D.	ug/1 3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	ECY 97-602 NWTPH-Dx modified	ug/1 2,200	ug/1 28	1
08271	Heavy Range Organics C24-C40	n.a.	470	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified	ug/1 N.D.	ug/1 28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 14:57	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 14:57	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 14:57	Brett W Kenyon	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 13:21	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 21:46	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 18:45	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-6 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059024
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:20 by GM

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-7 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059025
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:30 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	37,000	1,000	20
GC Volatiles					
02102	Benzene	71-43-2	12	0.5	1
02102	Ethylbenzene	100-41-4	33	0.5	1
02102	Toluene	108-88-3	6.2	0.5	1
02102	Total Xylenes	1330-20-7	31	1.5	1
GC Miscellaneous					
07105	Methane	74-82-8	160	3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	3,600	29	1
08271	Heavy Range Organics C24-C40	n.a.	690	69	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	1,700	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	140	69	1

Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 20:59	Brett W Kenyon	20
02102	Method 8021 Water Master	SW-846 8021B	1	15275A94A	10/05/2015 11:10	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 20:59	Brett W Kenyon	20
01146	GC VOA Water Prep	SW-846 5030B	2	15275A94A	10/05/2015 11:10	Brett W Kenyon	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 13:57	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 22:07	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 19:07	Christine E Dolman	1

Sample Description: MW-7 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059025
 LL Group # 1595115
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:30 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-8 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059026
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 10:10 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l 66	ug/l 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
07105	Methane	RSKSOP-175 modified 74-82-8	ug/l N.D.	ug/l 3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 150	ug/l 28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	ug/l N.D.	ug/l 28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 15:24	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 15:24	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 15:24	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 14:15	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 19:57	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 19:28	Christine E Dolman	1

Sample Description: MW-8 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059026
 LL Group # 1595115
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 10:10 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-15 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059027
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 08:55 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	4,800	250	5
GC Volatiles					
02102	Benzene	71-43-2	5.5	0.5	1
02102	Ethylbenzene	100-41-4	11	0.5	1
02102	Toluene	108-88-3	7.6	0.5	1
02102	Total Xylenes	1330-20-7	19	1.5	1
GC Miscellaneous					
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	2,600	29	1
08271	Heavy Range Organics C24-C40	n.a.	560	67	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	1,400	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	93	67	1

Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15271B53A	09/30/2015 16:12	Brett W Kenyon	5
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 15:52	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 15:52	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	2	15271B53A	09/30/2015 16:12	Brett W Kenyon	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 14:33	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 22:29	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 19:50	Christine E Dolman	1

Sample Description: MW-15 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059027
 LL Group # 1595115
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 08:55 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-17 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059028
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:00 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	5,800	250	5
GC Volatiles					
02102	Benzene	71-43-2	16	2.5	5
02102	Ethylbenzene	100-41-4	370	2.5	5
02102	Toluene	108-88-3	60	2.5	5
02102	Total Xylenes	1330-20-7	700	7.5	5
GC Miscellaneous					
07105	Methane	74-82-8	8.1	3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	760	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	130	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 21:27	Marie D Beamenderfer	5
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 21:27	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 21:27	Marie D Beamenderfer	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 14:51	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 20:19	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 20:11	Christine E Dolman	1

Sample Description: MW-17 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059028
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 11:00 by GM

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-18 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059029
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:10 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC18

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	140	50	1
GC Volatiles					
02102	Benzene	71-43-2	0.5	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	66	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15271B53A	09/30/2015 15:16	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	15271B53A	09/30/2015 15:16	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15271B53A	09/30/2015 15:16	Brett W Kenyon	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 15:09	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 20:41	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 20:32	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-18 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059029
 LL Group # 1595115
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 12:10 by GM Chevron
 Submitted: 09/23/2015 09:40 6001 Bollinger Canyon Road
 Reported: 10/22/2015 08:35 L4310
 San Ramon CA 94583

EWC18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-21 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059030
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 06:50 by GM Chevron
 Submitted: 09/23/2015 09:40 6001 Bollinger Canyon Road
 Reported: 10/22/2015 08:35 L4310
 San Ramon CA 94583

EWC21

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l 3,000	ug/l 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/l 1,100	ug/l 10	20
02102	Ethylbenzene	100-41-4	16	0.5	1
02102	Toluene	108-88-3	31	0.5	1
02102	Total Xylenes	1330-20-7	24	1.5	1
GC Miscellaneous					
07105	Methane	RSKSOP-175 modified 74-82-8	ug/l 190	ug/l 3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 990	ug/l 28	1
08271	Heavy Range Organics C24-C40	n.a.	600	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 120	ug/l 28	1
12005	HRO C24-C40 w/Si Gel	n.a.	170	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15271B53A	09/30/2015 19:26	Brett W Kenyon	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 21:54	Brett W Kenyon	20
02102	Method 8021 Water Master	SW-846 8021B	1	15271B53A	09/30/2015 19:26	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 21:54	Brett W Kenyon	20
01146	GC VOA Water Prep	SW-846 5030B	2	15271B53A	09/30/2015 19:26	Brett W Kenyon	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 15:27	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 22:50	Thomas C Wildermuth	1

Sample Description: MW-21 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059030
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 06:50 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC21

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 20:54	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-23 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059031
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 07:55 by GM Chevron
 Submitted: 09/23/2015 09:40 6001 Bollinger Canyon Road
 Reported: 10/22/2015 08:35 L4310
 San Ramon CA 94583

EWC23

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l N.D.	ug/l 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
07105	Methane	RSKSOP-175 modified 74-82-8	ug/l N.D.	ug/l 3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 140	ug/l 28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified n.a.	ug/l 85	ug/l 28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 16:48	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 16:48	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 16:48	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 15:44	Kristen N Brandt	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780002A	10/06/2015 21:03	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780003A	10/20/2015 21:15	Christine E Dolman	1

Sample Description: MW-23 Grab Groundwater
Facility# 96590 Job# 386610
232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059031
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 07:55 by GM

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC23

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780003A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780002A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-27 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059032
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 08:50 by GM Chevron
 6001 Bollinger Canyon Road
 Submitted: 09/23/2015 09:40 L4310
 Reported: 10/22/2015 08:35 San Ramon CA 94583

EWC27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	n.a.	400	50	1
GC Volatiles					
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
Hydrocarbons					
08271	Diesel Range Organics C12-C24	n.a.	92,000	2,800	100
08271	Heavy Range Organics C24-C40	n.a.	N.D.	6,600	100
GC Petroleum					
Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	n.a.	89,000	2,800	100
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	6,600	100
Due to the dilution of the sample extract, capric acid recovery can not be determined.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 18:12	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 18:12	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 18:12	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780004A	10/07/2015 19:34	Christine E Dolman	100
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780005A	10/20/2015 13:54	Christine E Dolman	100
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780005A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780004A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-28 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059033
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 09:55 by GM Chevron
 Submitted: 09/23/2015 09:40 6001 Bollinger Canyon Road
 Reported: 10/22/2015 08:35 L4310
 San Ramon CA 94583

EWC28

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx n.a.	ug/l N.D.	ug/l 50	1
GC Volatiles					
02102	Benzene	SW-846 8021B 71-43-2	ug/l N.D.	ug/l 0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Miscellaneous					
07105	Methane	RSKSOP-175 modified 74-82-8	ug/l N.D.	ug/l 3.0	1
GC Petroleum Hydrocarbons					
08271	Diesel Range Organics C12-C24	ECY 97-602 NWTPH-Dx modified	ug/l 68	ug/l 28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si					
12005	DRO C12-C24 w/Si Gel	ECY 97-602 NWTPH-Dx modified	ug/l 73	ug/l 28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602	1	15267A53A	09/25/2015 18:40	Marie D	1
02102	Method 8021 Water Master	NWTPH-Gx SW-846 8021B	1	15267A53A	09/25/2015 18:40	Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 18:40	Marie D	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	152670001A	09/24/2015 16:03	Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780004A	10/07/2015 00:38	Kristen N Brandt	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780005A	10/20/2015 13:11	Thomas C Wildermuth	1
						Christine E Dolman	1

Sample Description: MW-28 Grab Groundwater
 Facility# 96590 Job# 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059033
 LL Group # 1595115
 Account # 11260

Project Name: 96590

Collected: 09/21/2015 09:55 by GM Chevron
 Submitted: 09/23/2015 09:40 6001 Bollinger Canyon Road
 Reported: 10/22/2015 08:35 L4310
 San Ramon CA 94583

EWC28

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780005A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780004A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-30 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059034
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 06:25 by GM

Chevron

6001 Bollinger Canyon Road
 L4310

Submitted: 09/23/2015 09:40

San Ramon CA 94583

Reported: 10/22/2015 08:35

EWC30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 19:08	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 19:08	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 19:08	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780004A	10/07/2015 01:00	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780005A	10/19/2015 15:26	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780005A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780004A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-31 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059035
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 05:40 by GM

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 09/23/2015 09:40

Reported: 10/22/2015 08:35

EWC31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602 NWTPH-Gx		ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846 8021B		ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602 NWTPH-Dx		ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 19:35	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 19:35	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 19:35	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780004A	10/07/2015 01:21	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780005A	10/20/2015 13:33	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780005A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780004A	10/05/2015 21:00	Samantha L Bronder	1

Sample Description: MW-37 Grab Groundwater
Facility# 96590 **Job#** 386610
 232 East Woodin Avenue - Chelan, WA

LL Sample # WW 8059036
LL Group # 1595115
Account # 11260

Project Name: 96590

Collected: 09/21/2015 05:20 by GM

Chevron

6001 Bollinger Canyon Road
 L4310

Submitted: 09/23/2015 09:40

San Ramon CA 94583

Reported: 10/22/2015 08:35

EWC37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Volatiles					
	ECY 97-602	NWTPH-Gx	ug/l	ug/l	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Volatiles					
	SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
GC Petroleum					
	ECY 97-602	NWTPH-Dx	ug/l	ug/l	
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum					
	ECY 97-602	NWTPH-Dx	ug/l	ug/l	
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15267A53A	09/25/2015 20:03	Marie D Beamenderfer	1
02102	Method 8021 Water Master	SW-846 8021B	1	15267A53A	09/25/2015 20:03	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15267A53A	09/25/2015 20:03	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	152780004A	10/07/2015 01:43	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	152780005A	10/19/2015 16:09	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	152780005A	10/05/2015 21:00	Samantha L Bronder	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	152780004A	10/05/2015 21:00	Samantha L Bronder	1

Quality Control Summary

Client Name: Chevron
Reported: 10/22/2015 08:35

Group Number: 1595115

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15267A53A	Sample number(s): 8059021-8059028,8059030-8059036							
Benzene	N.D.	0.2	ug/l	103	100	80-120	2	30
Ethylbenzene	N.D.	0.2	ug/l	100	97	80-120	3	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	106	104	80-123	1	30
Toluene	N.D.	0.2	ug/l	101	99	80-120	2	30
Total Xylenes	N.D.	0.2	ug/l	105	102	80-120	2	30
Batch number: 15271B53A	Sample number(s): 8059022,8059027,8059029-8059030							
Benzene	N.D.	0.2	ug/l	103	99	80-120	4	30
Ethylbenzene	N.D.	0.2	ug/l	101	97	80-120	4	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	103	105	80-123	2	30
Toluene	N.D.	0.2	ug/l	103	97	80-120	5	30
Total Xylenes	N.D.	0.2	ug/l	106	101	80-120	4	30
Batch number: 15275A94A	Sample number(s): 8059025							
Benzene	N.D.	0.2	ug/l	86	87	80-120	1	30
Ethylbenzene	N.D.	0.2	ug/l	99	100	80-120	1	30
Toluene	N.D.	0.2	ug/l	99	100	80-120	1	30
Total Xylenes	N.D.	0.2	ug/l	103	103	80-120	0	30
Batch number: 152670001A	Sample number(s): 8059024-8059031,8059033							
Methane	N.D.	3.0	ug/l	101		85-115		
Batch number: 152780002A	Sample number(s): 8059022-8059031							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	79	75	50-113	5	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 152780004A	Sample number(s): 8059032-8059036							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	75	71	50-113	6	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 152780003A	Sample number(s): 8059023-8059031							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	55	55	32-117	0	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 152780005A	Sample number(s): 8059032-8059036							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	62	53	32-117	16	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1595115

Reported: 10/22/2015 08:35

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 152670001A	Sample number(s): 8059024-8059031,8059033 UNSPK: P058457								
Methane	92	86	46-129	7	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Method 8021 Water Master

Batch number: 15267A53A

	Trifluorotoluene-P	Trifluorotoluene-F
8059021	102	100
8059022		107
8059023	101	114
8059024	180*	237*
8059025		115
8059026	102	108
8059027	93	
8059028	116	121
8059031	102	113
8059032	100	115
8059033	102	112
8059034	101	100
8059035	101	100
8059036	102	99
Blank	102	113
LCS	102	117
LCSD	101	114
Limits:	51-120	63-135

Analysis Name: Method 8021 Water Master

Batch number: 15271B53A

	Trifluorotoluene-P	Trifluorotoluene-F
8059022	92	
8059027		108
8059029	99	105
8059030	106	195*
Blank	101	118
LCS	101	117
LCSD	101	116
Limits:	51-120	63-135

Analysis Name: Method 8021 Water Master

Batch number: 15275A94A

	Trifluorotoluene-P
8059025	74
Blank	83
LCS	81
LCSD	81

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/22/2015 08:35

Group Number: 1595115

Surrogate Quality Control

Limits: 51-120

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 152670001A

Propene

8059024	60
8059025	60
8059026	76
8059027	74
8059028	68
8059029	69
8059030	75
8059031	75
8059033	72
Blank	91
LCS	92
MS	78
MSD	79

Limits: 47-116

Analysis Name: NWTPH-Dx water
Batch number: 152780002A

Orthoterphenyl

8059022	95
8059023	92
8059024	85
8059025	103
8059026	93
8059027	90
8059028	93
8059029	94
8059030	98
8059031	94
Blank	88
LCS	97
LCSD	92

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 152780003A

Orthoterphenyl

8059023	73
8059024	73
8059025	74
8059026	77
8059027	75
8059028	62
8059029	76
8059030	77
8059031	80
Blank	74
LCS	80
LCSD	82

Limits: 50-150

Analysis Name: NWTPH-Dx water

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/22/2015 08:35

Group Number: 1595115

Surrogate Quality Control

Batch number: 152780004A

Orthoterphenyl

8059032	190*
8059033	89
8059034	86
8059035	90
8059036	88
Blank	89
LCS	97
LCSD	91

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel

Batch number: 152780005A

Orthoterphenyl

8059032	248*
8059033	97
8059034	55
8059035	102
8059036	54
Blank	78
LCS	78
LCSD	69

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only.
 Group # 1595115 Sample # 8059021-36

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks																										
Facility # SS#9-6590-OML G-R#386610 WBS Site Address 232 East Woodin Avenue, CHELAN, WA Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler GM/AW				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Composite				<input type="checkbox"/> BTEX + 802 P <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method METHANE (Pskop - 175M)										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																										
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + 802 P	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	Lead	Total	Diss.	Method	6 Remarks																							
Date	Time	Date	Time																		DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERS. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.																							
QA	9/21/15	-	-	X			W		2	X				X																														
QA DUP		-	-						5					X																														
MW-5		0730	-						8					X																														
MW-6		1120	-						8					X																														X
MW-7		1230	-						8					X																														
MW-8		1010	-						8					X																														
MW-15		0855	-						8					X																														
MW-17		1100	-						8					X																														
MW-18		1210	-						8					X																														
MW-21		0650	-						8					X																														
MW-23		0755	-						8					X																														
MW-27		0850	-						8					X																														
MW-28		0955	-						8					X																														
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date		Time		Received by				Date		Time																										
Standard <input checked="" type="radio"/> 5 day 72 hour 4 day EDF/EDD 24 hour				[Signature]				9-22-15		11:10		[Signature]				9/22/15		11:10																										
8 Data Package (circle if required)				Relinquished by Commercial Carrier:				Date				Time				Received by				Date		Time																						
Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____				UPS _____ FedEx _____ Other <input checked="" type="checkbox"/>				[Signature]				9/23/15		0940																										
				Temperature Upon Receipt				Custody Seals Intact?				(Yes) (No)				(Yes) (No)		(Yes) (No)																										
				3-0.4°C				(Yes) (No)				(Yes) (No)				(Yes) (No)		(Yes) (No)																										

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only
 Group # 1595115 Sample # 8059021-36

Instructions on reverse side correspond with circled numbers.

(1) Client Information				(4) Matrix				(5) Analyses Requested										(6) Remarks	
Facility # SS#9-6590-OML G-R#386610 WBS Site Address 232 East Woodin Avenue, CHELAN, WA Chevron PM EH LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler GM / AN				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil				Total Number of Containers _____ BTEX + MTBE 8021 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan _____ Oxygenates _____ NWTPH-Gx _____ NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> Column NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits	
(2) Sample Identification		Collected		(3) Grab		Composite												(6) Remarks	
		Date	Time	Grab	Composite											DISSOLVED MANGANESE AND ALKALINITY SAMPLES HAVE BEEN FIELD FILTERS. PLEASE REPORT BOTH RESULTS FOR Dx w/sgc USING 10 GRAM COLUMN CLEANUP, AND Dx WITH OUT SILICA GEL CLEANUP WHERE REQUESTED.			
MW-30		9/21/15	0625	X		S X													
MW-31			0540			S X													
MW-37			0520			S X													
(7) Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour EDF/EDD 24 hour				Relinquished by _____ Relinquished by _____		Date <u>9-22-15</u> Date _____		Time <u>11:10</u> Time _____		Received by <u>V. M. / BUC</u> Received by _____		Date <u>9/22/15</u> Date _____		Time <u>11:10</u> Time _____					
(8) Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____		Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other <input checked="" type="checkbox"/>				Received by <u>Cash</u> Received by _____		Date <u>9/23/15</u> Date _____		Time <u>0940</u> Time _____					
				Temperature Upon Receipt <u>813.04C</u>				Custody Seals Intact? <u>Yes</u> No											

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Appendix G:
LNAPL Baildown Test Results and Data Analysis

Results of July 16, 2015 LNAPL Baildown Test (MW-12)
Chevron 96590, Chelan, Washington

Yellow shaded cells = input data

Blue shaded cells = calculated values

Test Well ID	MW-12	Well Diameter (inches)	2
Data Collector	RSS/SMB	Boring Diameter	8
Ground Surface Elevation (ft)		LNAPL Specific Yield	0.175
Top of Casing Elevation (ft)	1,122.29	LNAPL Density (g/cm ³)	0.78
Total Well Depth (ft)	37	Well Casing Radius (ft)	0.083
Top of Screen (ft bgs)	17	Well Boring Radius (ft)	0.333
Bottom of Screen (ft bgs)	37		

Initial Test Conditions

Initial Depth to LNAPL (ft btoc)	26.74	Volume of LNAPL in Casing (gal)	0.6
Initial Depth to Water (ft btoc)	30.25	Volume of LNAPL in Filter Pack (gal)	1.5
Initial LNAPL Thickness (feet)	3.51	Target LNAPL Removal Volume (gal)	2.1
		Target LNAPL Removal Volume (liters)	7.9

LNAPL Removal Data

Start Time of LNAPL Removal	6:15	Volume of LNAPL Removed (gal)	2.1
Finish Time of LNAPL Removal	6:27	Volume of LNAPL Removed (liters)	8.0
Elapsed Time of LNAPL Removal (min)	0:12	Percentage of Target Volume Removed	102%

Baildown Test Recovery Data

Time	Elapsed Time (min)	TOC Elevation (ft)	DTP (ft)	DTW (ft)	LNAPL Thickness (ft)
7/16/15 6:27	1.00	1,122.29	29.65	30.76	1.11
7/16/15 6:29	3.00	1,122.29	29.50	30.59	1.09
7/16/15 6:30	4.00	1,121.72	29.41	30.51	1.10
7/16/15 6:31	5.00	1,121.43	29.35	30.46	1.11
7/16/15 6:32	6.00	1,121.19	29.30	30.41	1.11
7/16/15 6:33	7.00	1,121.19	29.24	30.36	1.12
7/16/15 6:34	8.00	1,121.19	29.20	30.32	1.12
7/16/15 6:35	9.00	1,121.19	29.15	30.29	1.14
7/16/15 6:36	10.00	1,121.19	29.11	30.25	1.14
7/16/15 6:37	11.00	1,121.19	29.07	30.22	1.15
7/16/15 6:38	12.00	1,121.19	29.03	30.19	1.16
7/16/15 6:39	13.00	1,121.19	29.00	30.15	1.15
7/16/15 6:40	14.00	1,121.19	28.98	30.13	1.15
7/16/15 6:41	15.00	1,121.19	28.95	30.10	1.15
7/16/15 6:42	16.00	1,121.19	28.92	30.07	1.15
7/16/15 6:44	18.00	1,121.19	28.87	30.02	1.15
7/16/15 6:46	20.00	1,121.19	28.82	29.98	1.16
7/16/15 6:48	22.00	1,121.19	28.78	29.94	1.16
7/16/15 6:50	24.00	1,121.19	28.73	29.89	1.16
7/16/15 6:52	26.00	1,121.19	28.70	29.85	1.15
7/16/15 6:57	31.00	1,121.19	28.63	29.76	1.13
7/16/15 7:02	36.00	1,121.19	28.55	29.67	1.12
7/16/15 7:07	41.00	1,121.19	28.47	29.58	1.11
7/16/15 7:12	46.00	1,121.19	28.41	29.49	1.08
7/16/15 7:17	51.00	1,121.19	28.33	29.43	1.10
7/16/15 7:22	56.00	1,121.19	28.26	29.36	1.10
7/16/15 7:32	66.00	1,121.19	28.12	29.23	1.11
7/16/15 7:42	76.00	1,121.19	28.02	29.13	1.11
7/16/15 7:52	86.00	1,121.19	27.93	29.02	1.09
7/16/15 8:12	106.00	1,121.19	27.78	28.84	1.06
7/16/15 8:32	126.00	1,121.19	27.70	28.73	1.03
7/16/15 8:52	146.00	1,121.19	27.60	28.61	1.01
7/16/15 9:22	176.00	1,121.19	27.52	28.44	0.92
7/16/15 9:52	206.00	1,121.19	27.45	28.38	0.93
7/16/15 10:22	236.00	1,121.19	27.40	28.29	0.89
7/16/15 10:52	266.00	1,121.19	27.36	28.21	0.85
7/16/15 11:22	296.00	1,121.19	27.31	28.15	0.84
7/16/15 11:52	326.00	1,121.19	27.28	28.11	0.83
7/16/15 12:52	386.00	1,121.19	27.25	28.03	0.78
7/16/15 13:52	446.00	1,121.19	27.20	27.98	0.78
7/16/15 16:55	629.00	1,121.19	27.13	27.91	0.78
7/16/15 20:02	816.00	1,121.19	27.12	27.92	0.80
7/16/15 23:47	1041.00	1,121.19	27.18	27.99	0.81
7/17/15 8:35	1569.00	1,121.19	27.16	27.99	0.83

Results of July 16, 2015 LNAPL Baildown Test (MW-16)
Chevron 96590, Chelan, Washington

Yellow shaded cells = input data

Blue shaded cells = calculated values

Test Well ID	MW-16	Well Diameter (inches)	2
Data Collector	RSS/SMB	Boring Diameter	8
Ground Surface Elevation (ft)		LNAPL Specific Yield	0.175
Top of Casing Elevation (ft)	1,121.72	LNAPL Density (g/cm ³)	0.78
Total Well Depth (ft)	51.5	Well Casing Radius (ft)	0.083
Top of Screen (ft bgs)	25	Well Boring Radius (ft)	0.333
Bottom of Screen (ft bgs)	50		

Initial Test Conditions

Initial Depth to LNAPL (ft btoc)	42.41	Volume of LNAPL in Casing (gal)	0.1
Initial Depth to Water (ft btoc)	42.87	Volume of LNAPL in Filter Pack (gal)	0.2
Initial LNAPL Thickness (feet)	0.46	Target LNAPL Removal Volume (gal)	0.3
		Target LNAPL Removal Volume (liters)	1.0

LNAPL Removal Data

Start Time of LNAPL Removal	8:22	Volume of LNAPL Removed (gal)	0.2
Finish Time of LNAPL Removal	8:48	Volume of LNAPL Removed (liters)	0.7
Elapsed Time of LNAPL Removal (min)	0:26	Percentage of Target Volume Removed	68%

Baildown Test Recovery Data

Time	Elapsed Time (min)	TOC Elevation (ft)	DTP (ft)	DTW (ft)	LNAPL Thickness (ft)
7/16/15 8:49	1.00	1,121.72	43.47	43.58	0.11
7/16/15 8:50	2.00	1,121.72	43.43	43.57	0.14
7/16/15 8:51	3.00	1,121.72	43.40	43.56	0.16
7/16/15 8:52	4.00	1,121.72	43.36	43.53	0.17
7/16/15 8:53	5.00	1,121.72	43.33	43.50	0.17
7/16/15 8:54	6.00	1,121.72	43.36	43.47	0.11
7/16/15 8:55	7.00	1,121.72	43.28	43.44	0.16
7/16/15 8:56	8.00	1,121.72	43.26	43.42	0.16
7/16/15 8:57	9.00	1,121.72	43.24	43.40	0.16
7/16/15 8:58	10.00	1,121.72	43.22	43.38	0.16
7/16/15 8:59	11.00	1,121.72	43.20	43.35	0.16
7/16/15 9:00	12.00	1,121.72	43.18	43.34	0.15
7/16/15 9:02	14.00	1,121.72	43.14	43.31	0.17
7/16/15 9:04	16.00	1,121.72	43.11	43.27	0.16
7/16/15 9:06	18.00	1,121.72	43.07	43.24	0.17
7/16/15 9:08	20.00	1,121.72	43.03	43.20	0.17
7/16/15 9:10	22.00	1,121.72	43.00	43.18	0.18
7/16/15 9:15	27.00	1,121.72	42.92	43.11	0.19
7/16/15 9:20	32.00	1,121.72	42.86	43.05	0.19
7/16/15 9:25	37.00	1,121.72	42.81	42.99	0.18
7/16/15 9:30	42.00	1,121.72	42.76	42.94	0.18
7/16/15 9:35	47.00	1,121.72	42.71	42.89	0.18
7/16/15 9:40	52.00	1,121.72	42.67	42.85	0.18
7/16/15 9:50	62.00	1,121.72	42.61	42.79	0.18
7/16/15 10:00	72.00	1,121.72	42.56	42.73	0.17
7/16/15 10:10	82.00	1,121.72	42.52	42.69	0.17
7/16/15 10:20	92.00	1,121.72	42.49	42.65	0.16
7/16/15 10:30	102.00	1,121.72	42.46	42.63	0.17
7/16/15 10:40	112.00	1,121.72	42.44	42.61	0.17
7/16/15 11:00	132.00	1,121.72	42.40	42.57	0.17
7/16/15 11:20	152.00	1,121.72	42.38	42.55	0.17
7/16/15 11:40	172.00	1,121.72	42.37	42.55	0.18
7/16/15 12:00	192.00	1,121.72	42.35	42.53	0.18
7/16/15 12:30	222.00	1,121.72	42.34	42.52	0.18
7/16/15 13:00	252.00	1,121.72	42.34	42.51	0.17
7/16/15 13:30	282.00	1,121.72	42.32	42.51	0.19
7/16/15 14:00	312.00	1,121.72	42.32	42.51	0.19
7/16/15 17:00	492.00	1,121.72	42.31	42.50	0.19
7/16/15 20:05	677.00	1,121.72	42.28	42.48	0.20
7/16/15 23:40	892.00	1,121.72	42.27	42.47	0.20
7/17/15 8:18	1410.00	1,121.72	42.30	42.49	0.19

Results of July 16, 2015 LNAPL Baildown Test (MW-10)
Chevron 96590, Chelan, Washington

Yellow shaded cells = input data

Blue shaded cells = calculated values

Test Well ID	MW-10	Well Diameter (inches)	2
Data Collector	RSS/SMB	Boring Diameter	8
Ground Surface Elevation (ft)		LNAPL Specific Yield	0.175
Top of Casing Elevation (ft)	1,123.69	LNAPL Density (g/cm ³)	0.78
Total Well Depth (ft)	41.5	Well Casing Radius (ft)	0.083
Top of Screen (ft bgs)	15	Well Boring Radius (ft)	0.333
Bottom of Screen (ft bgs)	40		

Initial Test Conditions

Initial Depth to LNAPL (ft btoc)	29.03	Volume of LNAPL in Casing (gal)	1.5
Initial Depth to Water (ft btoc)	38.10	Volume of LNAPL in Filter Pack (gal)	3.9
Initial LNAPL Thickness (feet)	9.07	Target LNAPL Removal Volume (gal)	5.4
		Target LNAPL Removal Volume (liters)	20.3

LNAPL Removal Data

Start Time of LNAPL Removal	17:46	Volume of LNAPL Removed (gal)	5.3
Finish Time of LNAPL Removal	18:45	Volume of LNAPL Removed (liters)	20.0
Elapsed Time of LNAPL Removal (min)	0:59	Percentage of Target Volume Removed	98%

Baildown Test Recovery Data

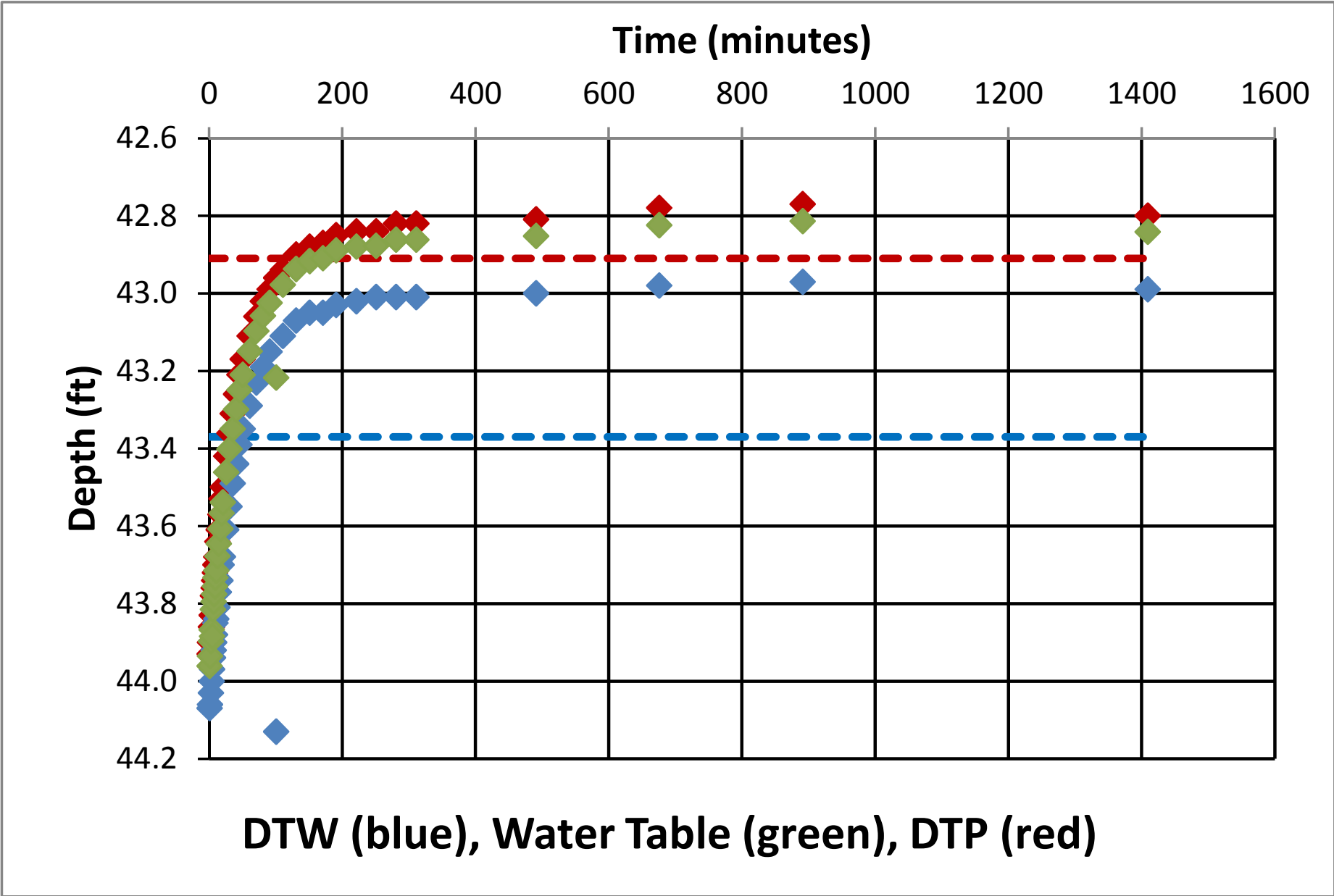
Time	Elapsed Time (min)	DTP (ft)	DTW (ft)	LNAPL Thickness (ft)
7/16/15 18:45	1.00	37.12	37.52	0.40
7/16/15 18:46	2.00	37.03	37.47	0.44
7/16/15 18:47	3.00	36.96	37.43	0.47
7/16/15 18:48	4.00	36.89	37.40	0.51
7/16/15 18:49	5.00	36.80	37.37	0.57
7/16/15 18:50	6.00	36.73	37.36	0.63
7/16/15 18:51	7.00	36.65	37.36	0.71
7/16/15 18:52	8.00	36.57	37.36	0.79
7/16/15 18:53	9.00	36.49	37.37	0.88
7/16/15 18:54	10.00	36.40	37.38	0.98
7/16/15 18:55	11.00	36.32	37.39	1.07
7/16/15 18:56	12.00	36.23	37.41	1.18
7/16/15 18:57	13.00	36.15	37.42	1.27
7/16/15 18:58	14.00	36.05	37.42	1.37
7/16/15 18:59	15.00	35.93	37.43	1.50
7/16/15 19:00	16.00	35.86	37.43	1.57
7/16/15 19:02	18.00	35.67	37.44	1.77
7/16/15 19:04	20.00	35.47	37.45	1.98
7/16/15 19:06	22.00	35.31	37.46	2.15
7/16/15 19:08	24.00	35.15	37.46	2.31
7/16/15 19:10	26.00	34.98	37.45	2.47
7/16/15 19:12	28.00	34.81	37.43	2.62
7/16/15 19:14	30.00	34.66	37.40	2.74
7/16/15 19:16	32.00	34.50	37.36	2.86
7/16/15 19:18	34.00	34.33	37.33	3.00
7/16/15 19:20	36.00	34.17	37.30	3.13
7/16/15 19:25	41.00	33.79	37.23	3.44
7/16/15 19:30	46.00	33.45	37.14	3.69
7/16/15 19:35	51.00	33.17	37.06	3.89
7/16/15 19:40	56.00	32.93	36.98	4.05
7/16/15 19:45	61.00	32.72	36.91	4.19
7/16/15 19:50	66.00	32.57	36.88	4.31
7/16/15 20:00	76.00	32.31	36.78	4.47
7/16/15 20:10	86.00	32.13	36.72	4.59
7/16/15 20:20	96.00	32.00	36.69	4.69
7/16/15 20:30	106.00	31.90	36.67	4.77
7/16/15 20:40	116.00	31.82	36.65	4.83
7/16/15 20:50	126.00	31.77	36.64	4.87
7/16/15 21:00	136.00	31.72	36.62	4.90
7/16/15 21:30	166.00	31.65	36.62	4.97
7/16/15 22:00	196.00	31.60	36.62	5.02
7/16/15 23:00	256.00	31.55	36.65	5.10
7/16/15 23:30	286.00	31.54	36.65	5.11
7/17/15 8:28	824.00	31.51	36.86	5.35

Well Designation: MW16 Beckett and Lyverse (2002)
 Date: 16-Jul-15

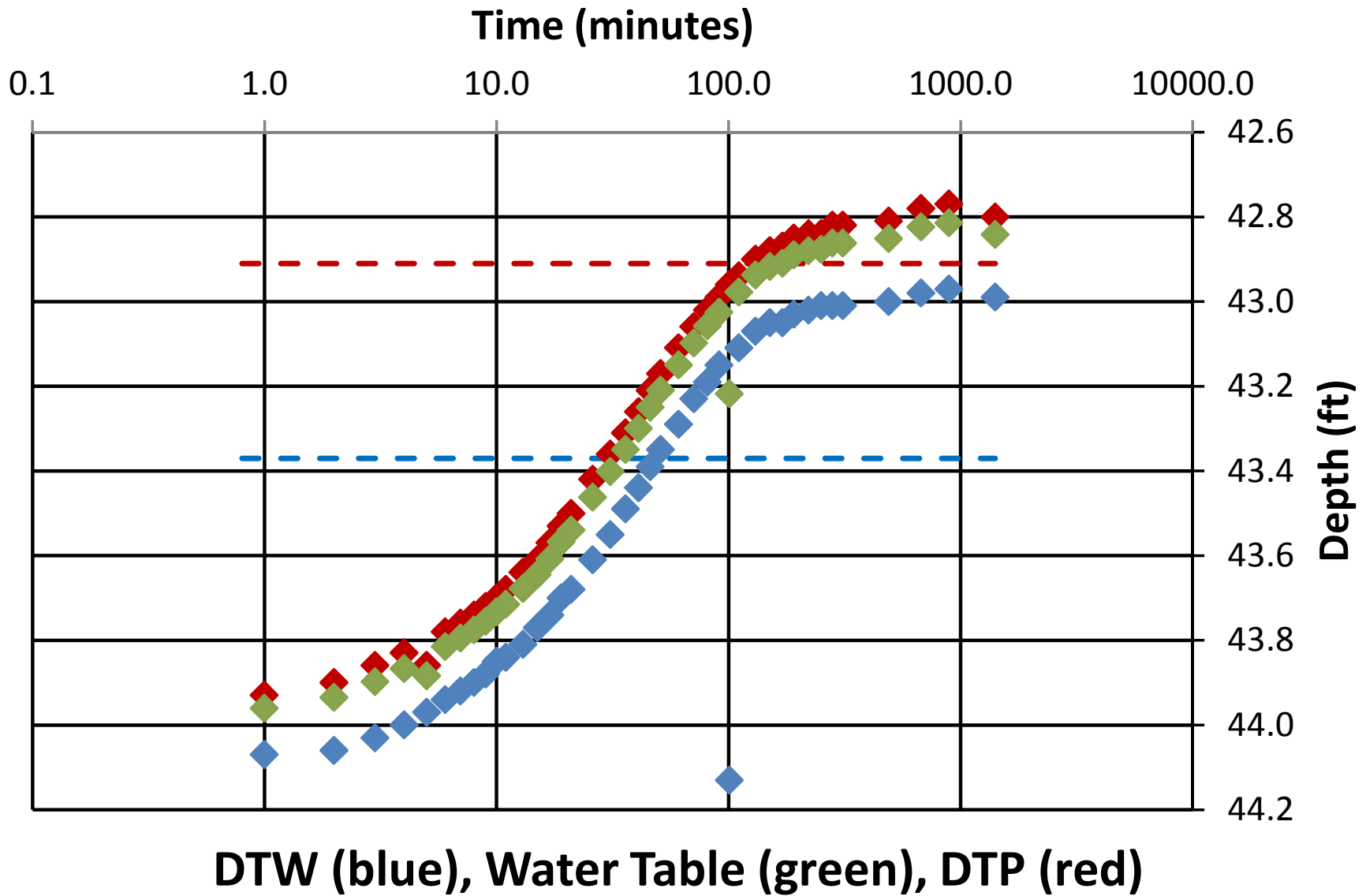
Ground Surface Elev (ft msl)	1122.2	Enter These Data	r _{et}	Drawdown Adjustment (ft)	-0.18
Top of Casing Elev (ft msl)	1121.7				
Well Casing Radius, r _c (ft):	0.083				
Well Radius, r _w (ft):	0.333				
LNAPL Specific Yield, S _y :	0.175				
LNAPL Density Ratio, ρ _L :	0.780				
Top of Screen (ft bgs):	0.0				
Bottom of Screen (ft bgs):	0.0				
LNAPL Baildown Vol. (gal.):					
Effective Radius, r _{e3} (ft):	0.158				
Effective Radius, r _{e2} (ft):	#NUM!				
Initial Casing LNAPL Vol. (gal.):	0.07				
Initial Filter LNAPL Vol. (gal.):	0.20				

	Enter Data Here					Water Table Depth (ft)	LNAPL Drawdown s _n (ft)	LNAPL					DTP (ft bgs)	DTW (ft bgs)	LNAPL Volume (gallons)	Ave. r _e (ft)	
	Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)			Average Time (min)	Discharge Q _n (ft ³ /d)	s _n (ft)	b _n (ft)	r _e (ft)					
Initial Fluid Levels:	0	42.41	42.87	42.91	43.37	43.01											
Enter Test Data:	1.0	43.43	43.57	43.93	44.07	43.96	1.20			0.14						0	0.158
	2.0	43.40	43.56	43.90	44.06	43.94	1.17	1.5	2.270	1.19	0.16	0.158	43.92	44.06	0.01	0	
	3.0	43.36	43.53	43.86	44.03	43.90	1.13	2.5	1.135	1.15	0.17	0.158	43.88	44.05	0.02	0.158	
	4.0	43.33	43.50	43.83	44.00	43.87	1.10	3.5	0.000	1.11	0.17	0.158	43.84	44.02	0.02	0.317	
	5.0	43.36	43.47	43.86	43.97	43.88	1.13	4.5	-6.810	1.11	0.11	0.158	43.84	43.99	-0.02	0.475	
	6.0	43.28	43.44	43.78	43.94	43.82	1.05	5.5	5.675	1.09	0.16	0.158	43.82	43.96	0.01	0.634	
	7.0	43.26	43.42	43.76	43.92	43.80	1.03	6.5	0.000	1.04	0.16	0.158	43.77	43.93	0.01	0.792	
	8.0	43.24	43.40	43.74	43.90	43.78	1.01	7.5	0.000	1.02	0.16	0.158	43.75	43.91	0.01	0.950	
	9.0	43.22	43.38	43.72	43.88	43.76	0.99	8.5	0.000	1.00	0.16	0.158	43.73	43.89	0.01	1.109	
	10.0	43.20	43.35	43.70	43.85	43.73	0.97	9.5	-1.135	0.98	0.15	0.158	43.71	43.87	0.01	1.267	
	11.0	43.18	43.34	43.68	43.84	43.72	0.95	10.5	1.135	0.96	0.16	0.158	43.69	43.84	0.01	1.426	
	13.0	43.14	43.31	43.64	43.81	43.68	0.91	12.0	0.567	0.93	0.17	0.158	43.66	43.82	0.02	1.663	
	15.0	43.11	43.27	43.61	43.77	43.65	0.88	14.0	-0.567	0.89	0.16	0.158	43.63	43.79	0.01	1.980	
	17.0	43.07	43.24	43.57	43.74	43.61	0.84	16.0	0.567	0.86	0.17	0.158	43.59	43.76	0.02	2.297	
	19.0	43.03	43.20	43.53	43.70	43.57	0.80	18.0	0.000	0.82	0.17	0.158	43.55	43.72	0.02	2.614	
	21.0	43	43.18	43.50	43.68	43.54	0.77	20.0	0.567	0.78	0.18	0.158	43.52	43.69	0.02	2.930	
	26.0	42.92	43.11	43.42	43.61	43.46	0.69	23.5	0.227	0.73	0.19	0.158	43.46	43.65	0.03	3.485	
	31.0	42.86	43.05	43.36	43.55	43.40	0.63	28.5	0.000	0.66	0.19	0.158	43.39	43.58	0.03	4.277	
	36.0	42.81	42.99	43.31	43.49	43.35	0.58	33.5	-0.227	0.60	0.18	0.158	43.33	43.52	0.02	5.069	
	41.0	42.76	42.94	43.26	43.44	43.30	0.53	38.5	0.000	0.55	0.18	0.158	43.29	43.47	0.02	5.861	
	46.0	42.71	42.89	43.21	43.39	43.25	0.48	43.5	0.000	0.50	0.18	0.158	43.24	43.42	0.02	6.653	
	51.0	42.67	42.85	43.17	43.35	43.21	0.44	48.5	0.000	0.46	0.18	0.158	43.19	43.37	0.02	7.445	
	61.0	42.61	42.79	43.11	43.29	43.15	0.38	56.0	0.000	0.41	0.18	0.158	43.14	43.32	0.02	8.633	
	71.0	42.56	42.73	43.06	43.23	43.10	0.33	66.0	-0.113	0.35	0.17	0.158	43.08	43.26	0.02	10.216	
	81.0	42.52	42.69	43.02	43.19	43.06	0.29	76.0	0.000	0.31	0.17	0.158	43.04	43.21	0.02	11.800	
	91.0	42.49	42.65	42.99	43.15	43.03	0.26	86.0	-0.113	0.27	0.16	0.158	43.01	43.17	0.01	13.384	
	101.0	42.46	43.63	42.96	44.13	43.22	0.23	96.0	11.463	0.24	1.17	0.158	42.98	43.64	0.61	14.968	
	111.0	42.44	42.61	42.94	43.11	42.98	0.21	106.0	-11.350	0.22	0.17	0.158	42.95	43.62	0.02	16.552	
	131.0	42.4	42.57	42.90	43.07	42.94	0.17	121.0	0.000	0.19	0.17	0.158	42.92	43.09	0.02	18.928	
	151.0	42.38	42.55	42.88	43.05	42.92	0.15	141.0	0.000	0.16	0.17	0.158	42.89	43.06	0.02	22.096	
	171.0	42.37	42.55	42.87	43.05	42.91	0.14	161.0	0.057	0.14	0.18	0.158	42.88	43.05	0.02	25.264	
	191.0	42.35	42.53	42.85	43.03	42.89	0.12	181.0	0.000	0.13	0.18	0.158	42.86	43.04	0.02	28.432	
	221.0	42.34	42.52	42.84	43.02	42.88	0.11	206.0	0.000	0.11	0.18	0.158	42.84	43.03	0.02	32.392	
	251.0	42.34	42.51	42.84	43.01	42.88	0.11	236.0	-0.038	0.11	0.17	0.158	42.84	43.02	0.02	37.144	
	281.0	42.32	42.51	42.82	43.01	42.86	0.09	266.0	0.076	0.10	0.19	0.158	42.83	43.01	0.03	41.895	
	311.0	42.32	42.51	42.82	43.01	42.86	0.09	296.0	0.000	0.09	0.19	0.158	42.82	43.01	0.03	46.647	
	491.0	42.31	42.50	42.81	43.00	42.85	0.08	401.0	0.000	0.08	0.19	0.158	42.81	43.01	0.03	63.279	
	676.0	42.28	42.48	42.78	42.98	42.82	0.05	583.5	0.006	0.06	0.20	0.158	42.80	42.99	0.04	92.186	
	891.0	42.27	42.47	42.77	42.97	42.81	0.04	783.5	0.000	0.04	0.20	0.158	42.78	42.98	0.04	123.865	
	1409.0	42.30	42.49	42.80	42.99	42.84	0.07	1150.0	-0.002	0.05	0.19	0.158	42.79	42.98	0.03	181.917	

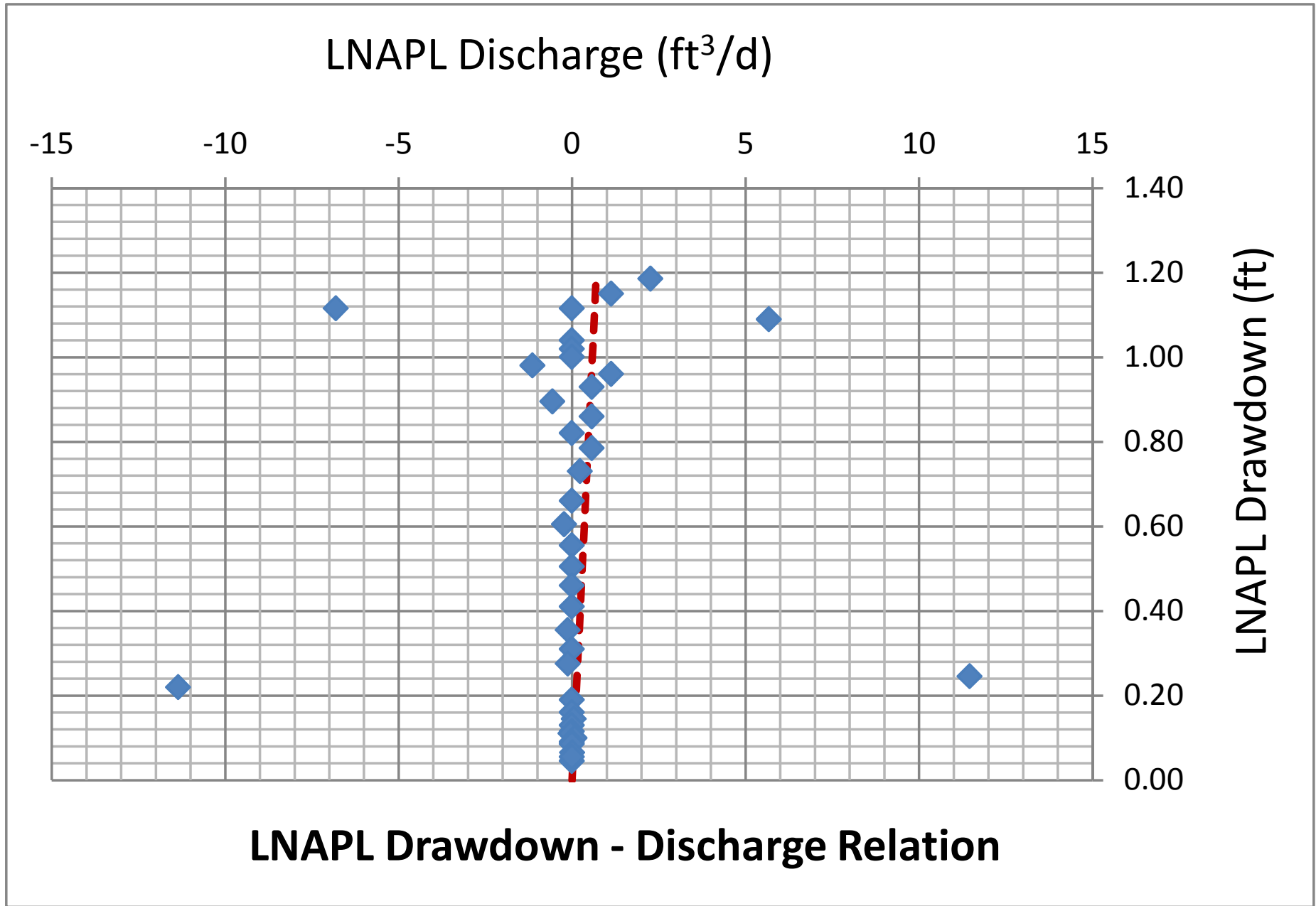
MW-16 Baildown Test Data Analysis
Figure 1



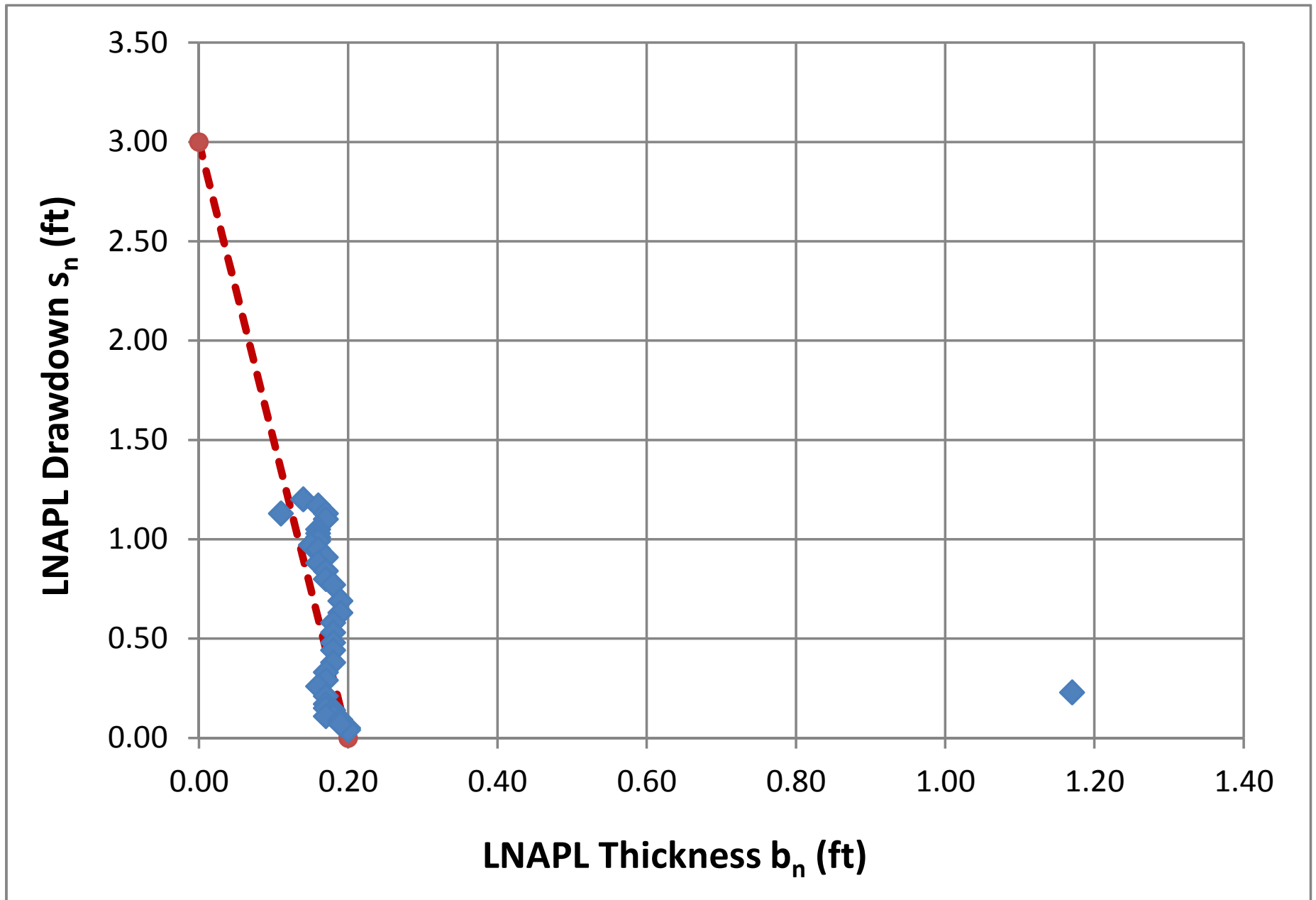
MW-16 Baildown Test Data Analysis
Figure 2



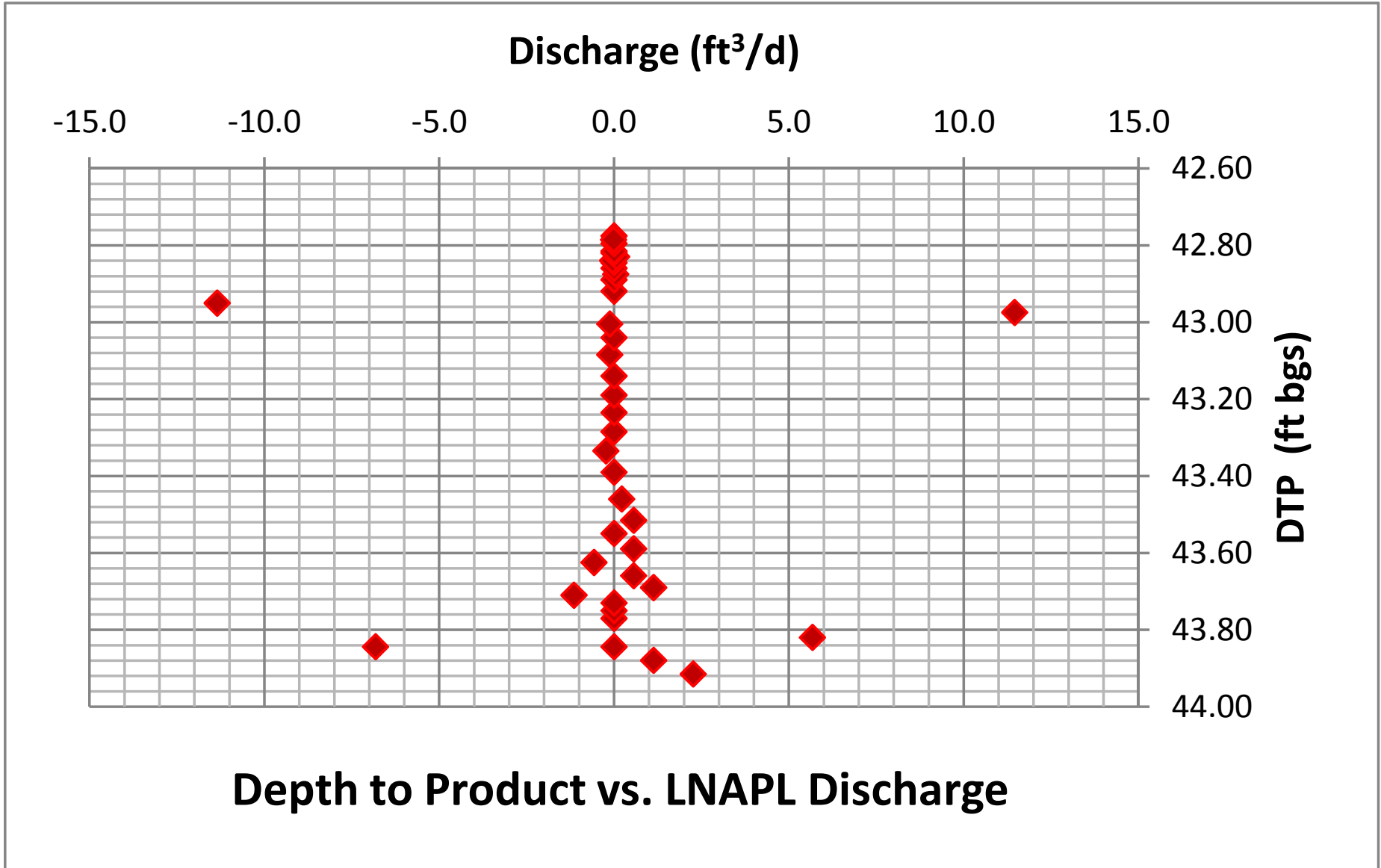
MW-16 Baildown Test Data Analysis
Figure 3



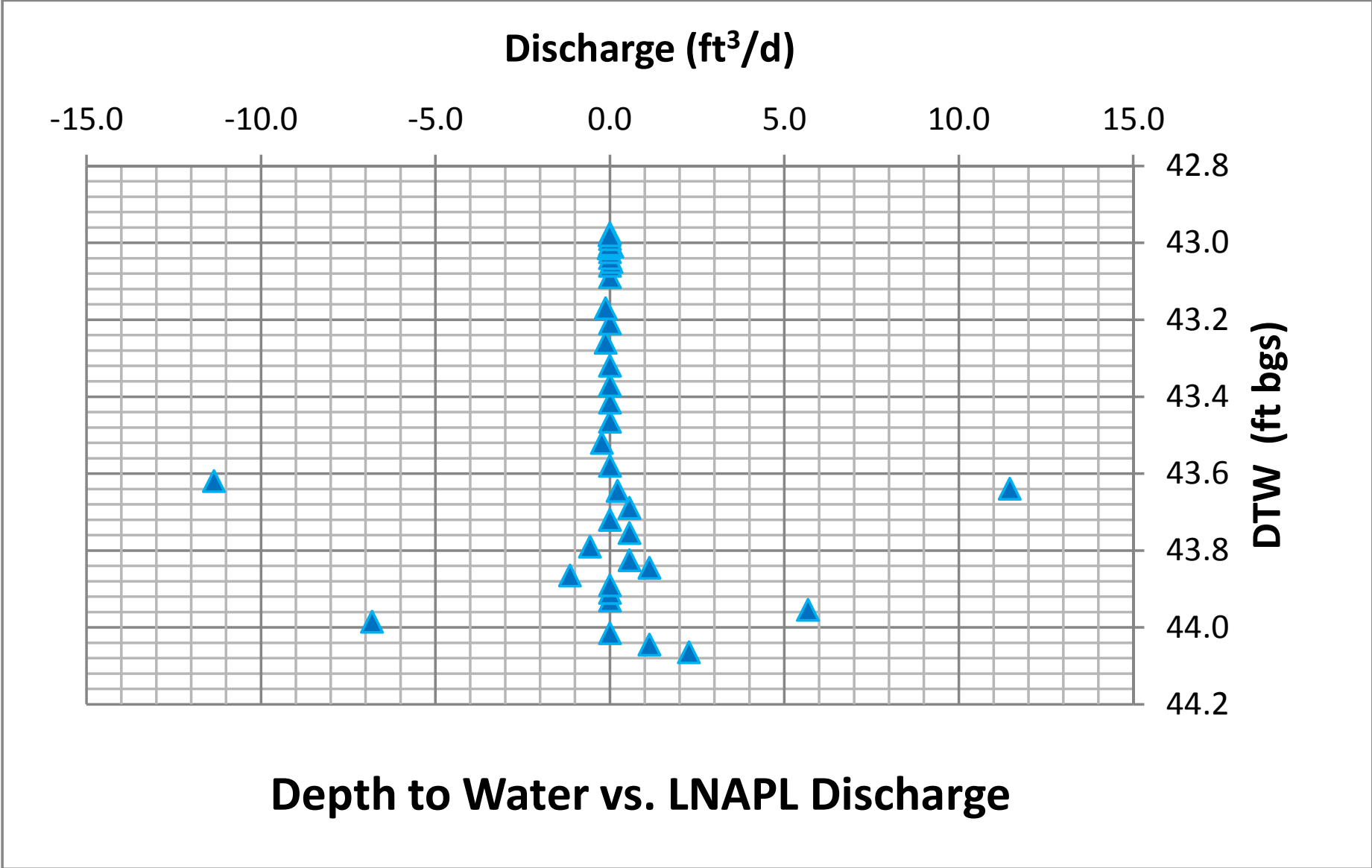
MW-16 Baildown Test Data Analysis
Figure 4



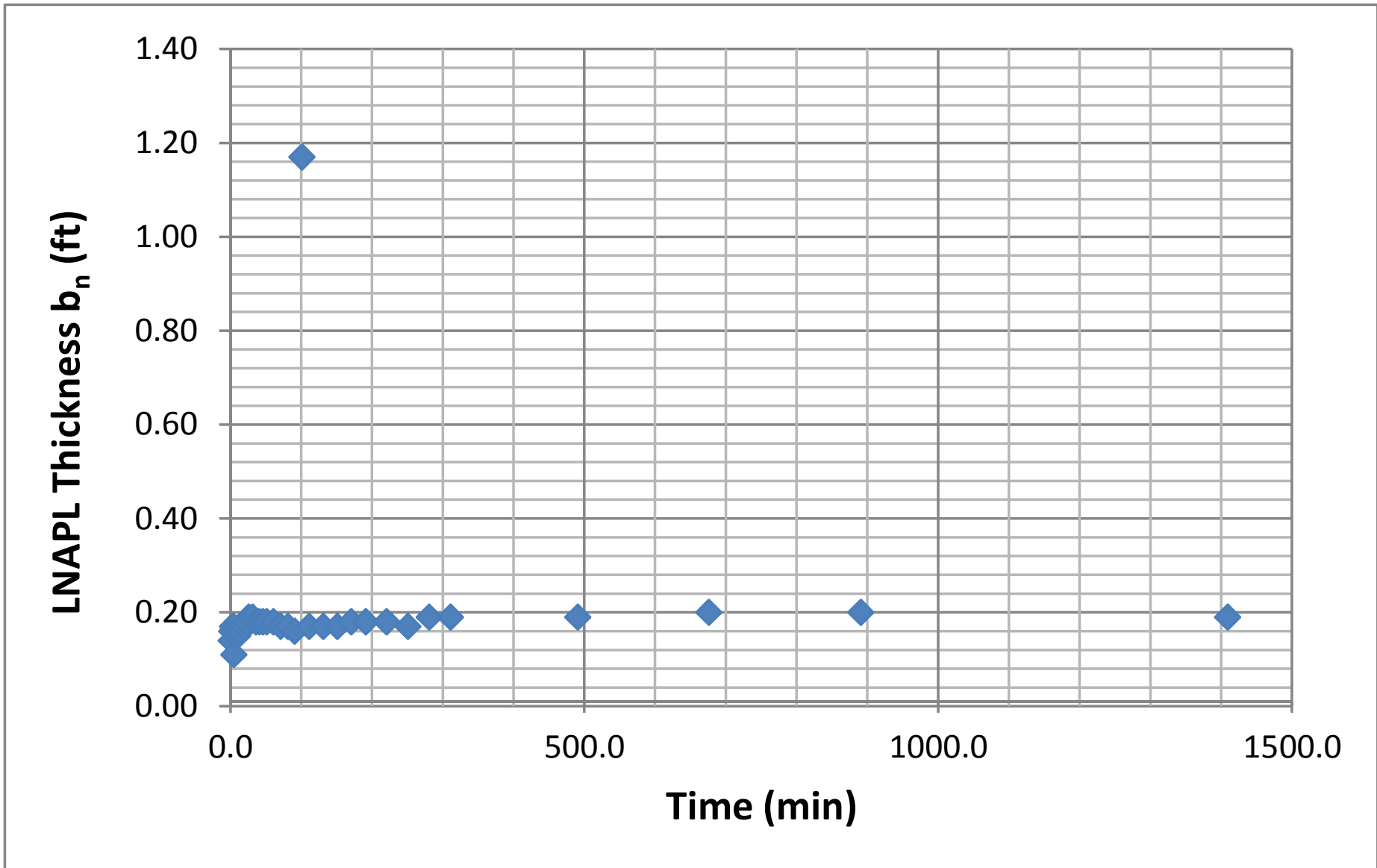
MW-16 Baildown Test Data Analysis
Figure 5



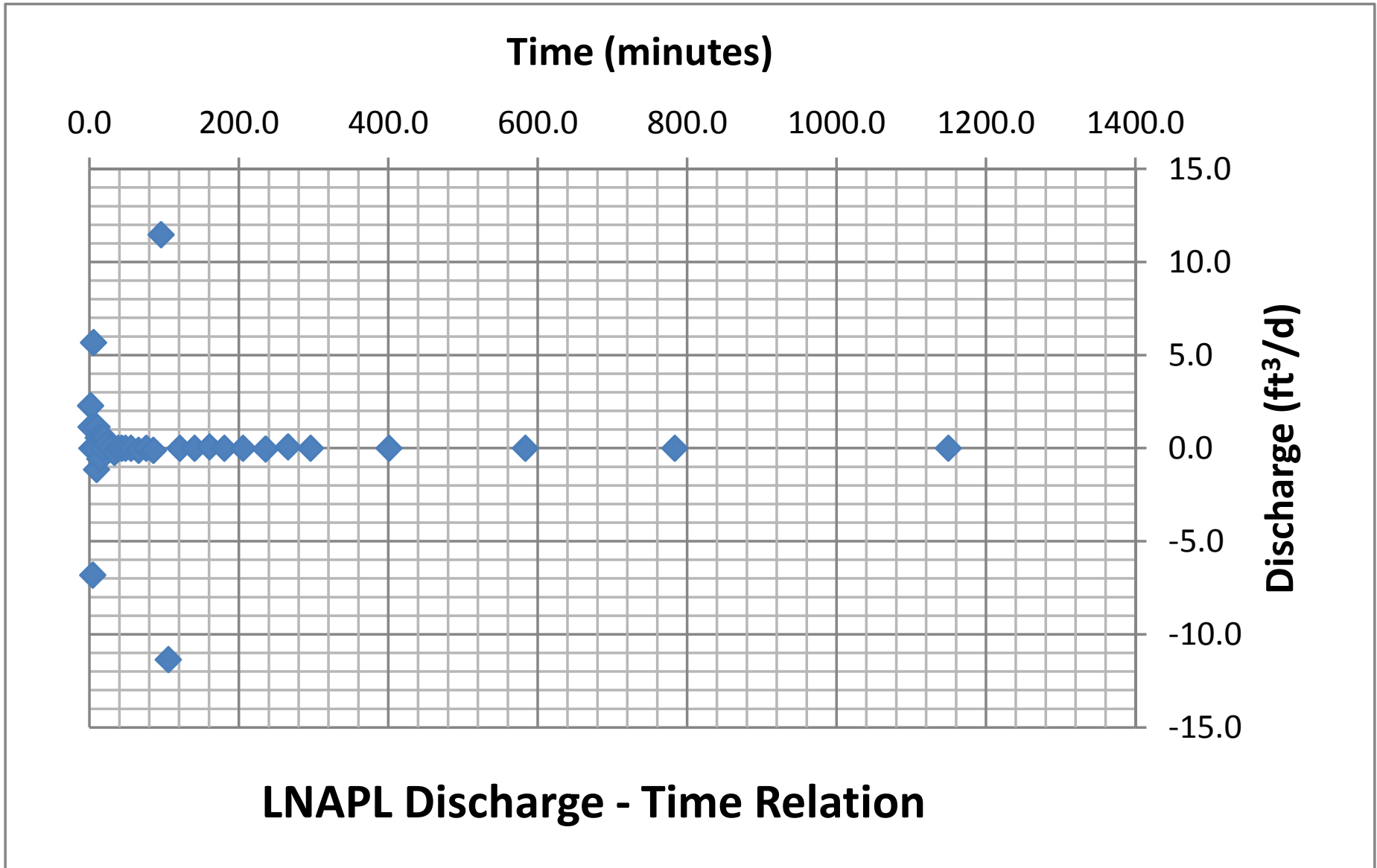
MW-16 Baildown Test Data Analysis
Figure 6



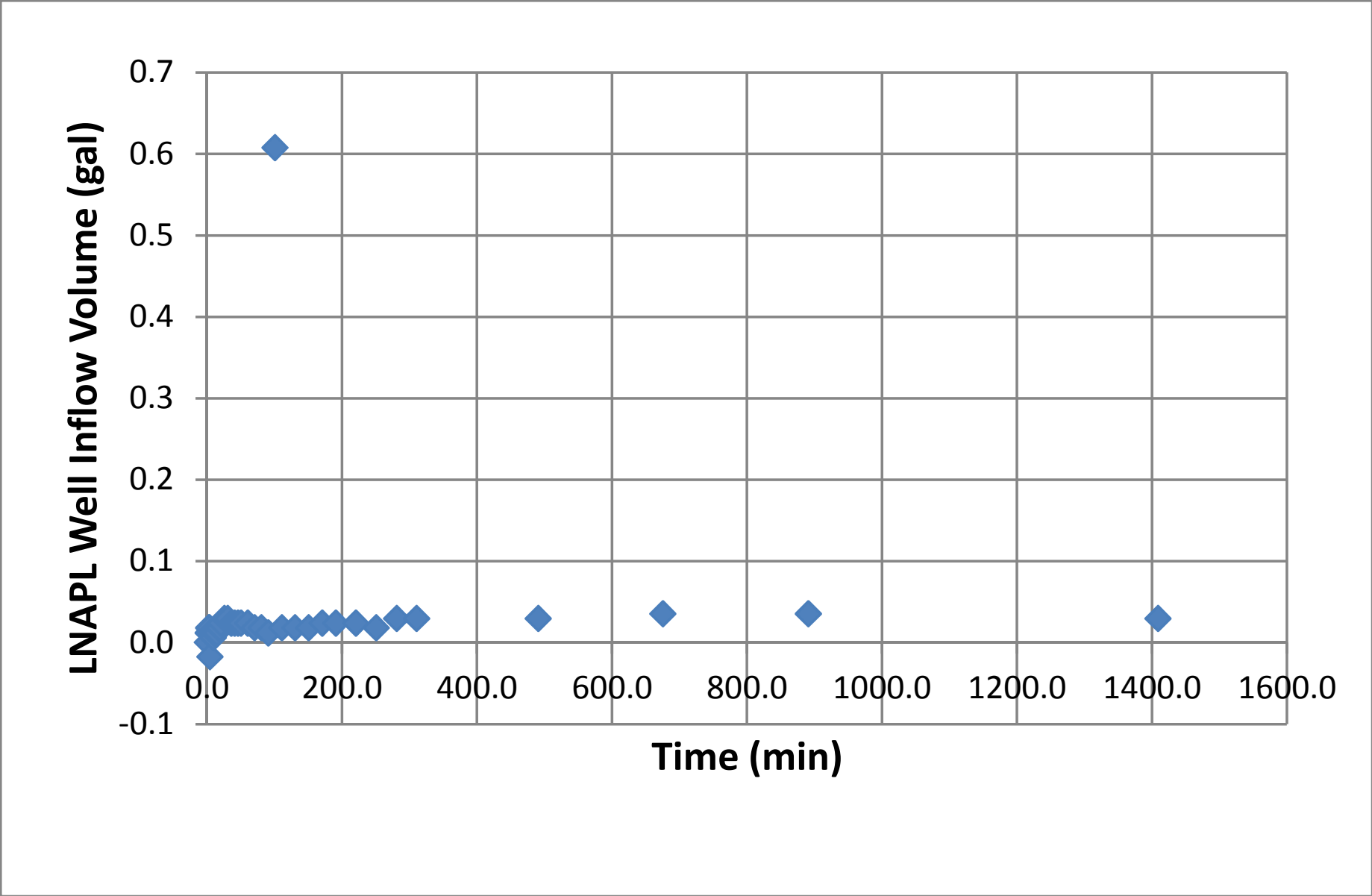
MW-16 Baildown Test Data Analysis
Figure 7



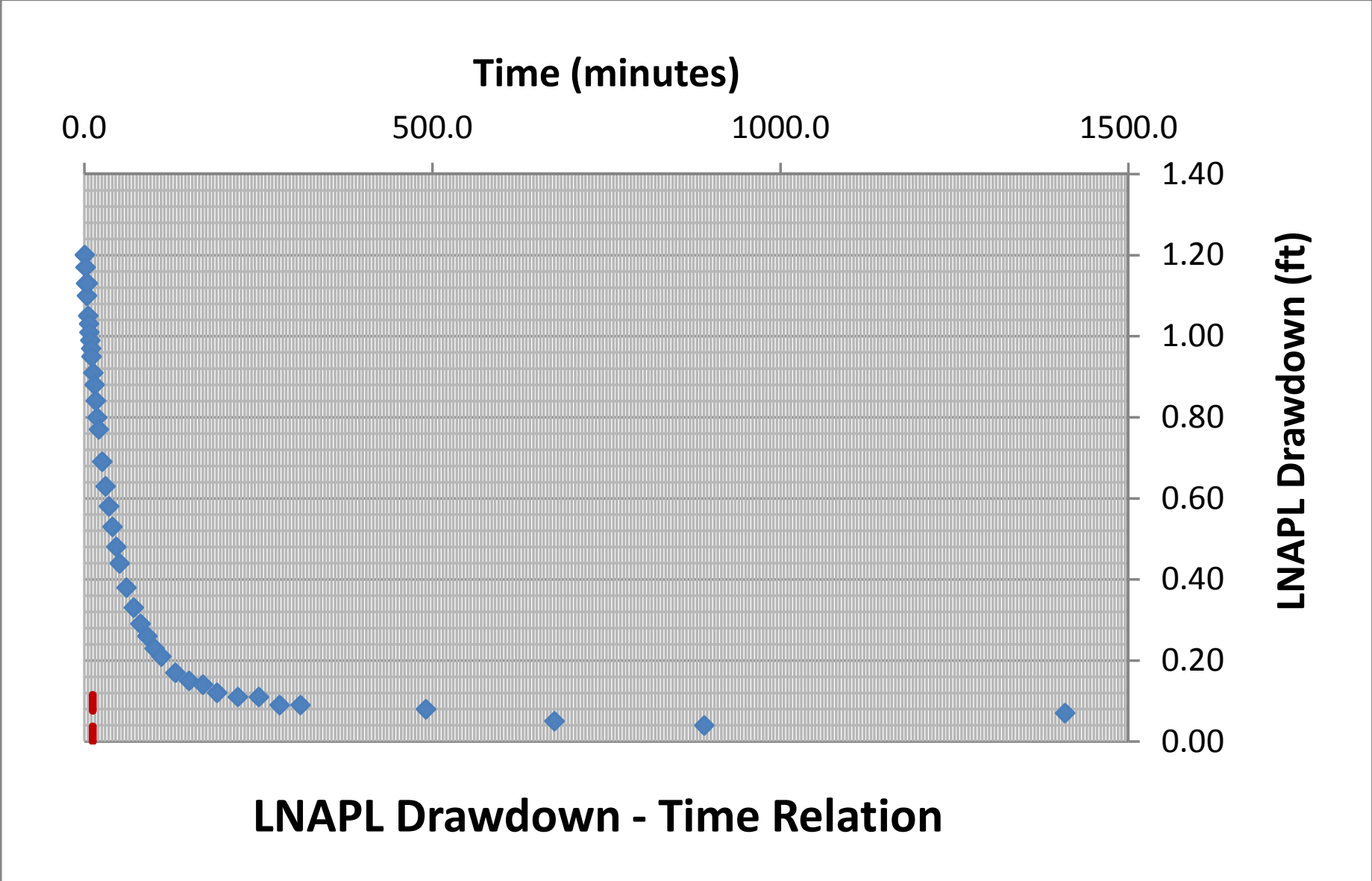
MW-16 Baildown Test Data Analysis
Figure 8



MW-16 Baildown Test Data Analysis
Figure 9



MW-16 Baildown Test Data Analysis
Figure 10



LNAPL Drawdown - Time Relation

Generalized Bouwer and Rice (1976)

Well Designation:	MW16
Date:	16-Jul-15

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

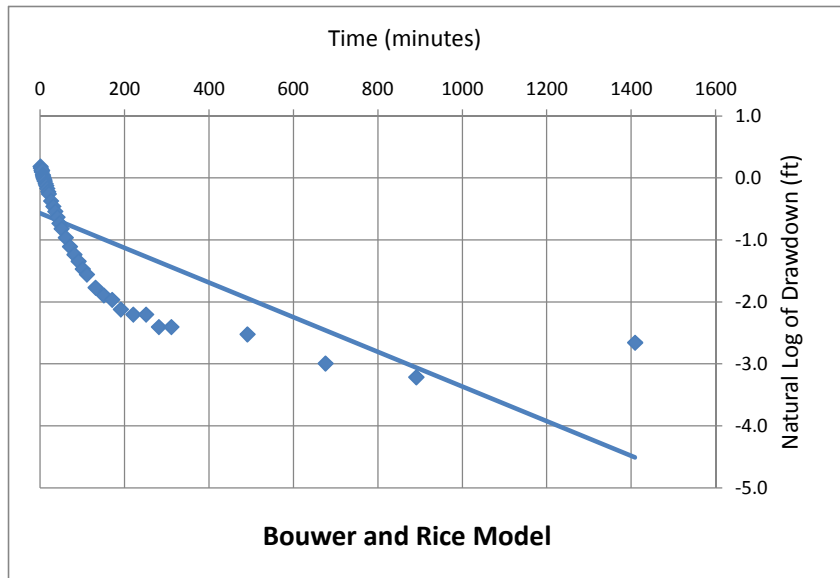
Time_{cut} <- Enter or change value here

Model Results: +/- ft²/d

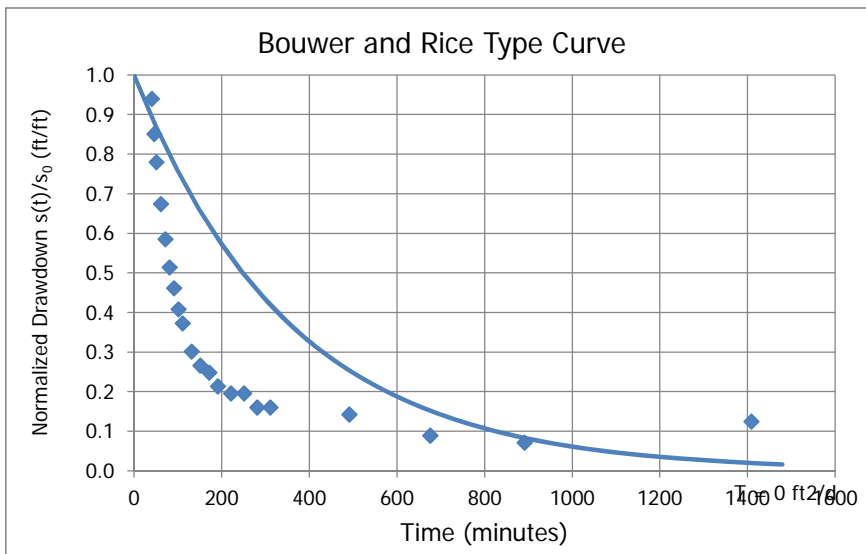
L _e /r _e	2.9
C	0.91
R/r _e	2.10

J-Ratio	-15.000
---------	---------

Coef. Of Variation	0.14
--------------------	------



C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper and Jacob (1946)

Well Designation:	MW16
Date:	16-Jul-15

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n s_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	0	<- Enter or change values here
Time Adjustment (min):	0	

Trial S_n: d <- Enter d for default or enter S_n value

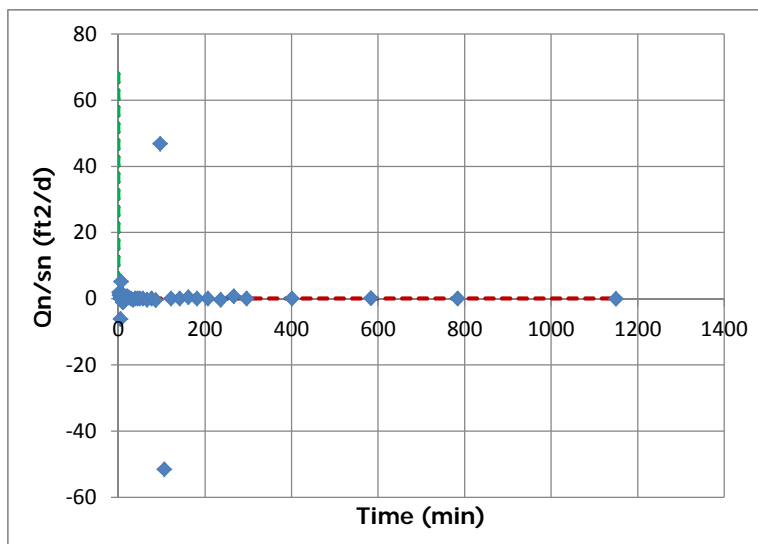
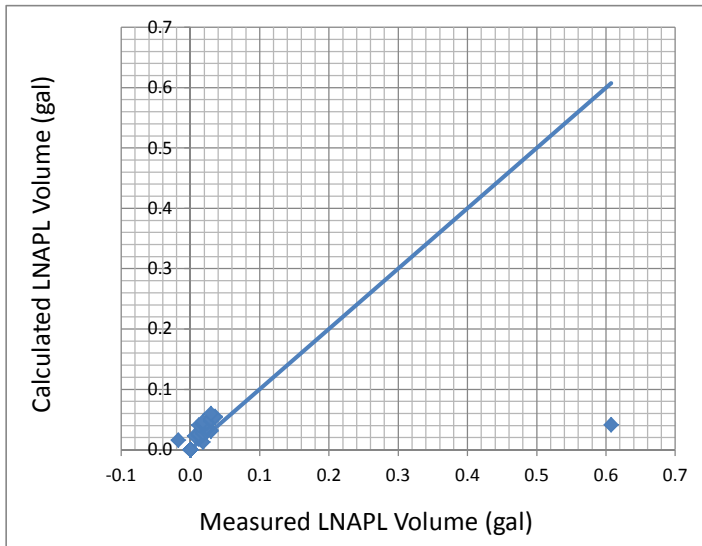
Root-Mean-Square Error: 0.577 <- Minimize this using "Solver"

0.003 <- Working S_n

Trial T_n (ft²/d): 0.015 <- By changing T_n through "Solver"

Add constraint T_n > 0.00001

Model Result: T_n (ft²/d) = 0.01



Height
70

Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	MW16
Date:	16-Jul-15

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	0	<- Enter or change values here
Initial Drawdown s _n (ft):	1.2	

Trial S_n: <- Enter d for default

Root-Mean-Square Error: <- Minimize this using "Solver"

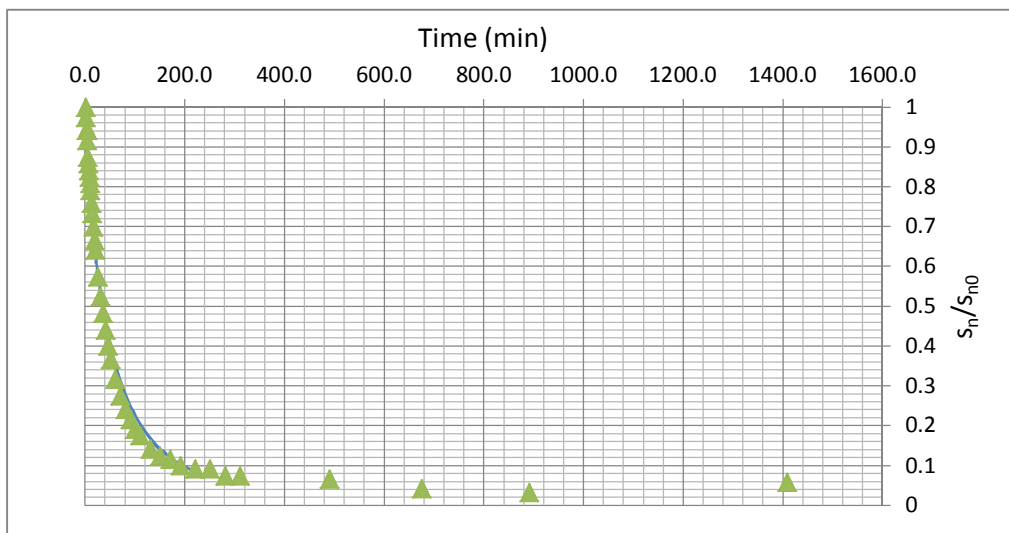
Trial T_n (ft²/d): <- By changing T_n through "Solver"

<- Working S_n Add constraint T_n > 0.00001

Model Result:

T_n (ft²/d) =

T _{min}	3
T _{max}	230



J-Ratio
-15.000

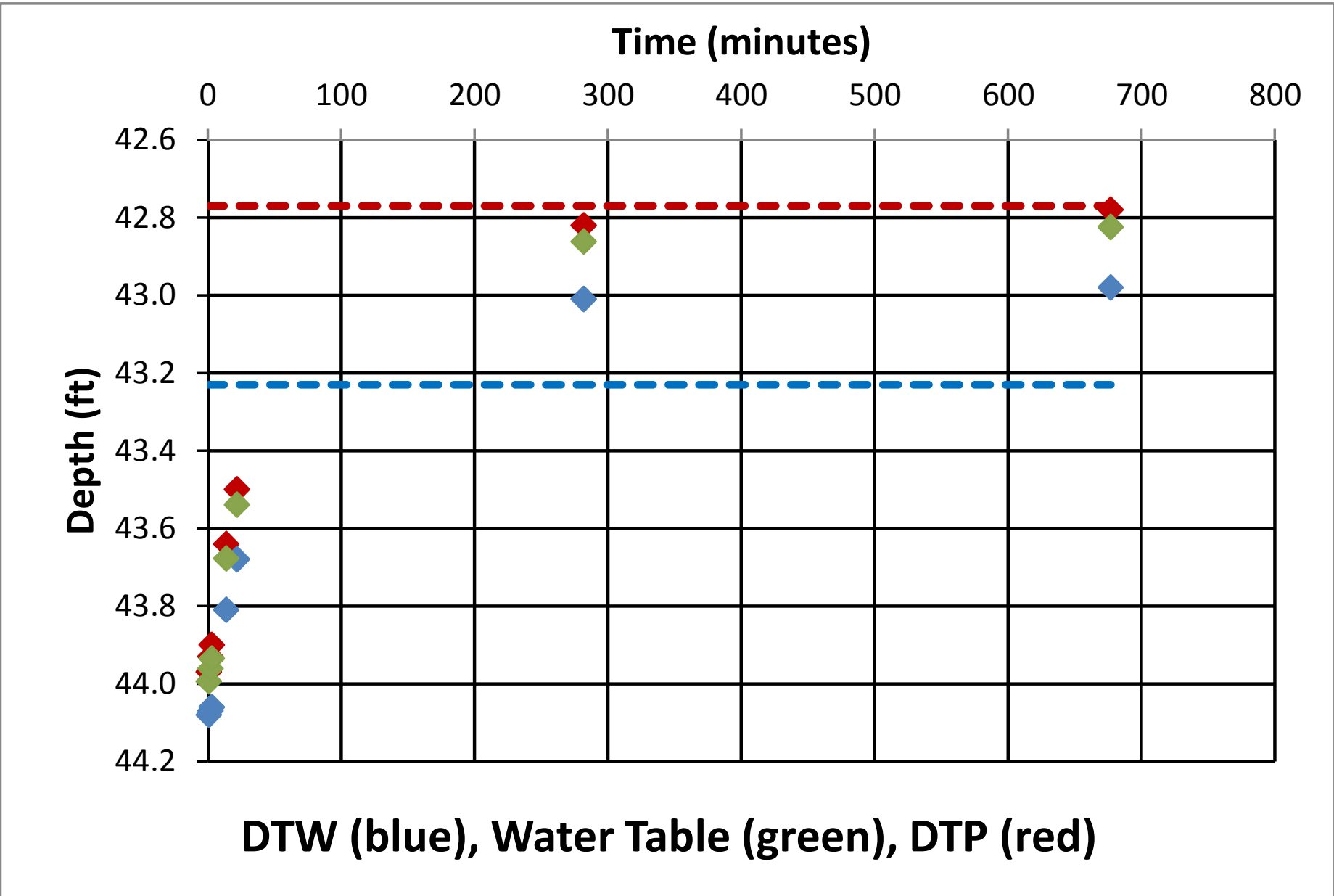
MW-16 Baildown Test Data Analysis - Filtered Data Set

Well Designation: MW16 Beckett and Lyverse (2002)
 Date: 16-Jul-15

Ground Surface Elev (ft msl)	1122.2	Enter These Data	r_{e1}	<table border="1" style="margin: auto;"> <tr> <td style="text-align: center;">Drawdown Adjustment (ft)</td> </tr> <tr> <td style="text-align: center;">0</td> </tr> </table>	Drawdown Adjustment (ft)	0
Drawdown Adjustment (ft)						
0						
Top of Casing Elev (ft msl)	1121.7					
Well Casing Radius, r_c (ft):	0.083					
Well Radius, r_w (ft):	0.333					
LNAPL Specific Yield, S_y :	0.175					
LNAPL Density Ratio, ρ_l :	0.780					
Top of Screen (ft bgs):	0.0					
Bottom of Screen (ft bgs):	0.0					
LNAPL Baildown Vol. (gal.):						
Effective Radius, r_{e3} (ft):	0.158	Calculated Parameters				
Effective Radius, r_{e2} (ft):	#NUM!					
Initial Casing LNAPL Vol. (gal.):	0.07					
Initial Filter LNAPL Vol. (gal.):	0.20					

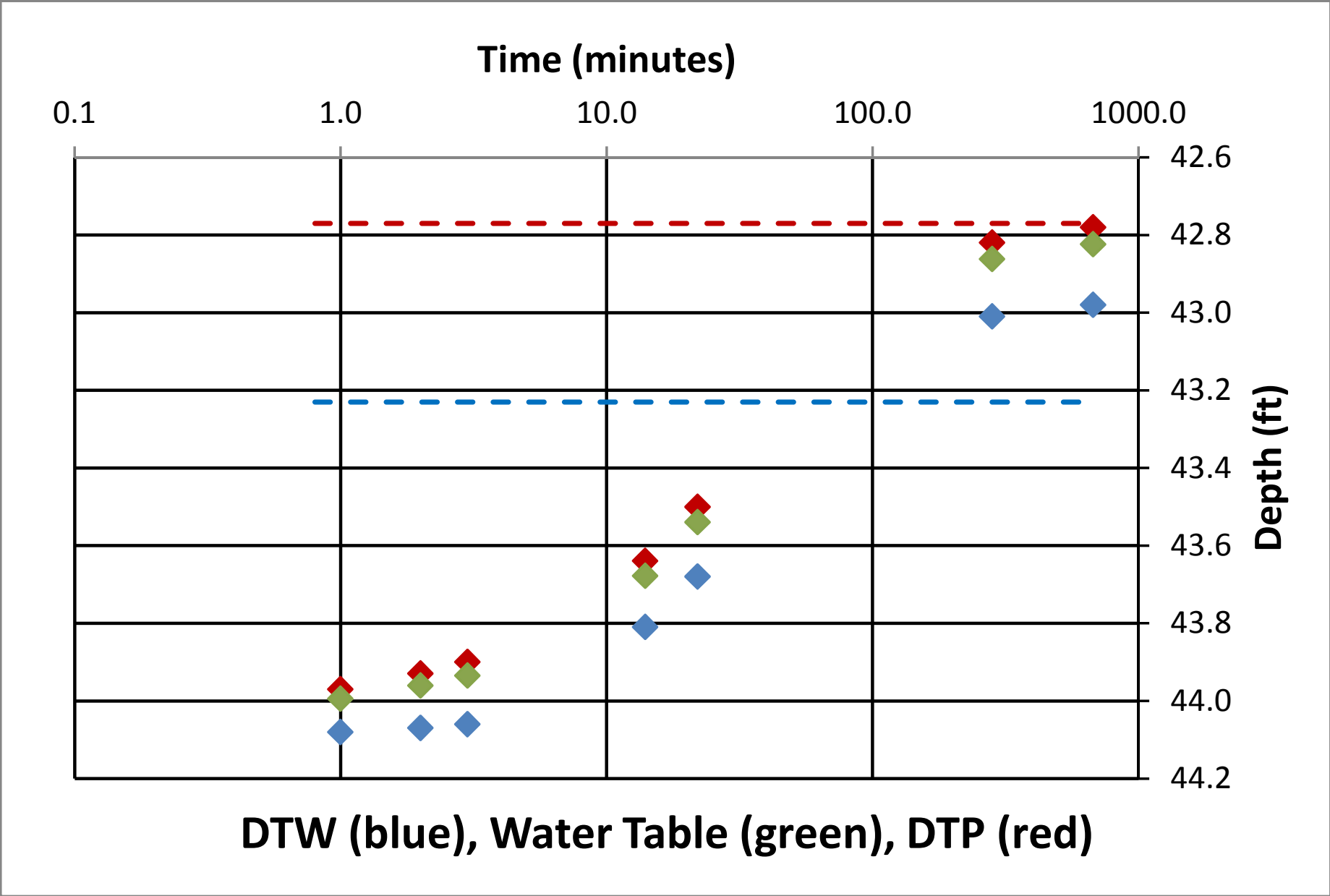
	Enter Data Here					Water Table Depth (ft)	LNAPL Drawdown s_n (ft)	LNAPL					DTP (ft bgs)	DTW (ft bgs)	LNAPL Volume (gallons)	Ave. r_e (ft)	
	Time (min)	DTP (ft btoc)	DTW (ft btoc)	DTP (ft bgs)	DTW (ft bgs)			Average Time (min)	Discharge Q_n (ft ³ /d)	s_n (ft)	b_n (ft)	r_e (ft)					
Initial Fluid Levels:	0	42.27	42.73	42.77	43.23	42.87											
Enter Test Data:	1.0	43.47	43.58	43.97	44.08	43.99	1.20				0.11					0	0.158
	2.0	43.43	43.57	43.93	44.07	43.96	1.16	1.5	3.405	1.18	0.14	0.158	43.95	44.07	0.02	0	
	3.0	43.40	43.56	43.90	44.06	43.94	1.13	2.5	2.270	1.15	0.16	0.158	43.92	44.06	0.03	0.158	
	14.0	43.14	43.31	43.64	43.81	43.68	0.87	8.5	0.103	1.00	0.17	0.158	43.77	43.93	0.04	1.109	
	22.0	43.00	43.18	43.50	43.68	43.54	0.73	18.0	0.142	0.80	0.18	0.158	43.57	43.75	0.04	2.614	
	282.0	42.32	42.51	42.82	43.01	42.86	0.05	152.0	0.004	0.39	0.19	0.158	43.16	43.35	0.05	23.838	
	677.0	42.28	42.48	42.78	42.98	42.82	0.01	479.5	0.003	0.03	0.20	0.158	42.80	43.00	0.05	75.713	

MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 1

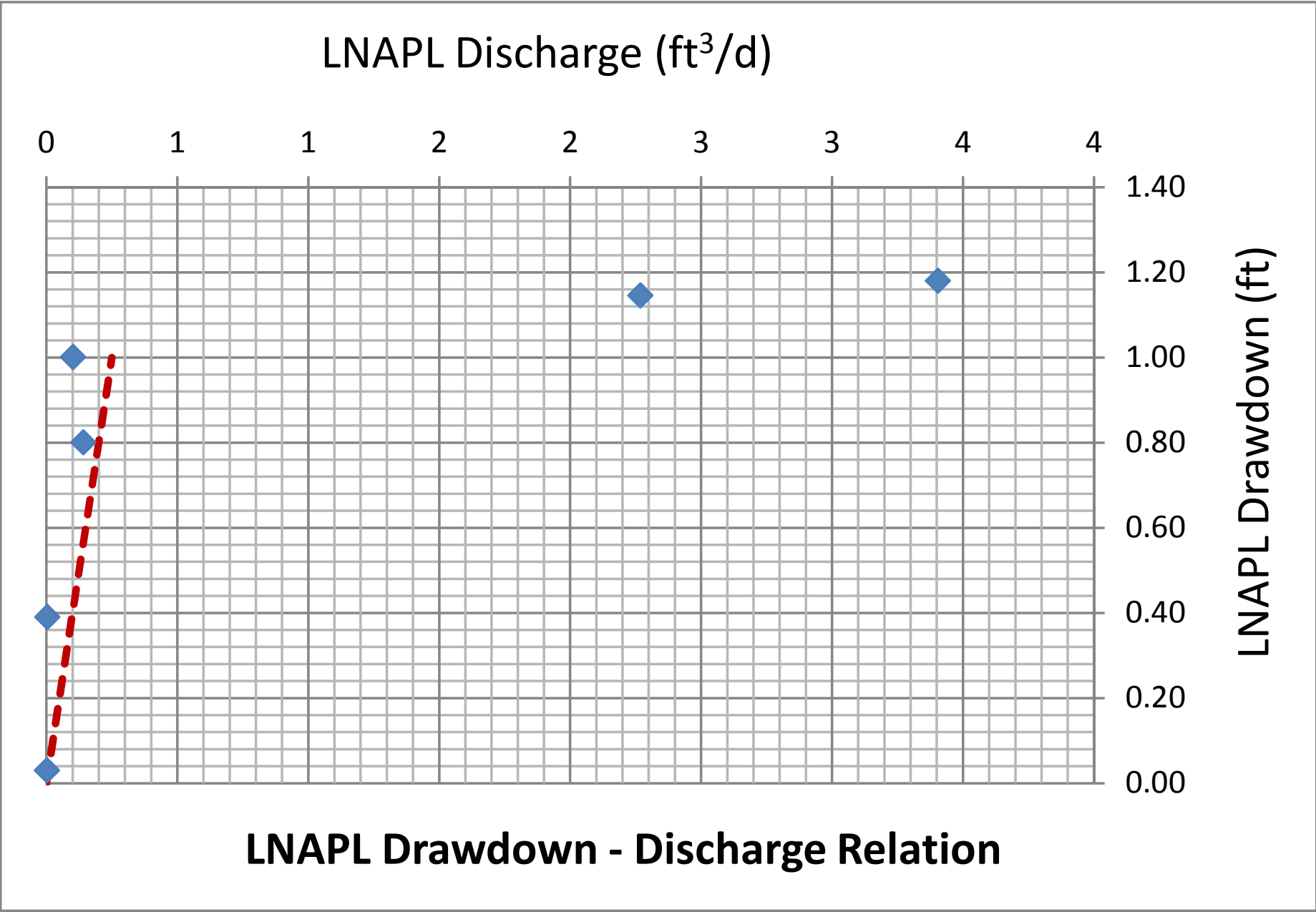


DTW (blue), Water Table (green), DTP (red)

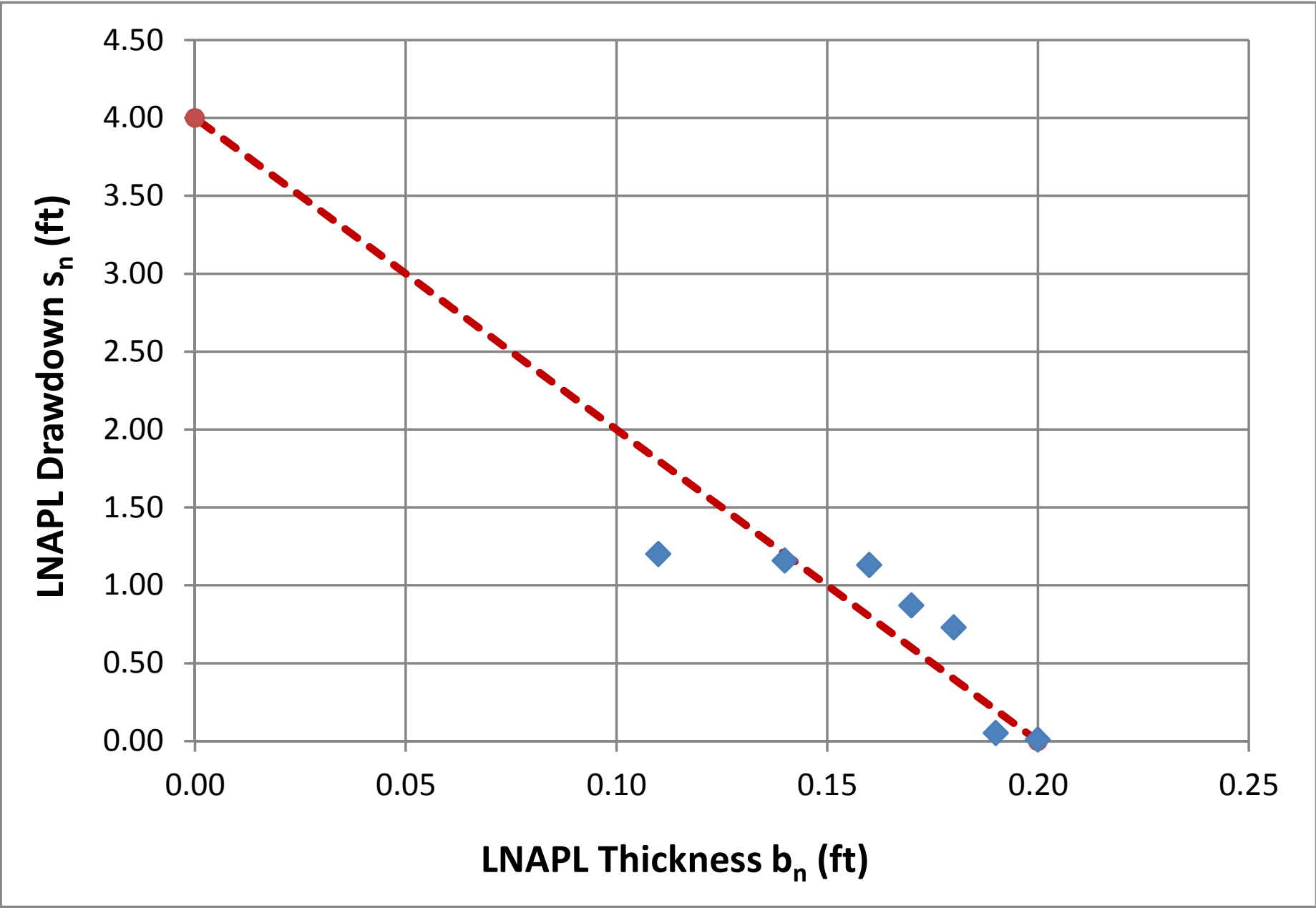
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 2



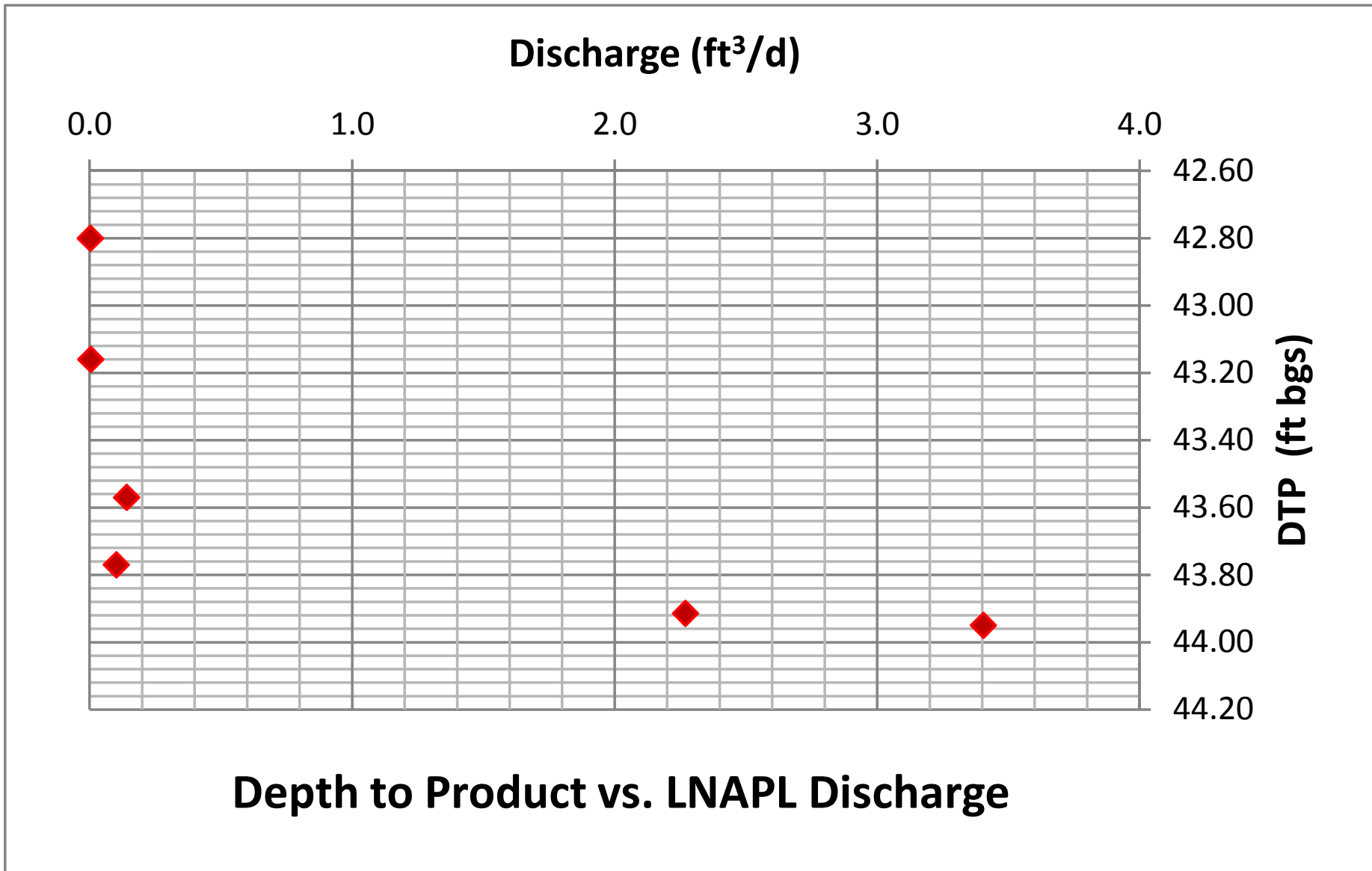
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 3



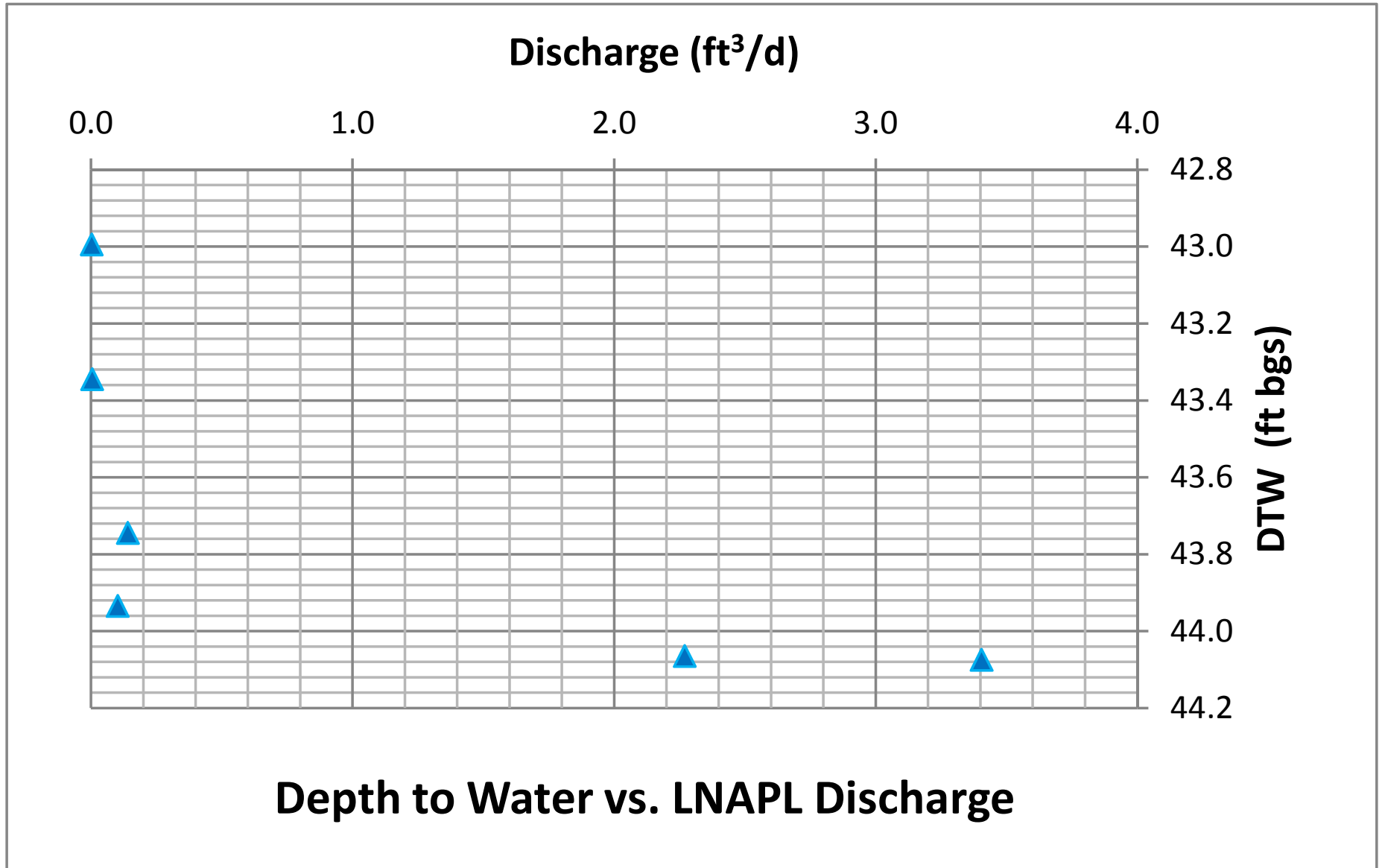
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 4



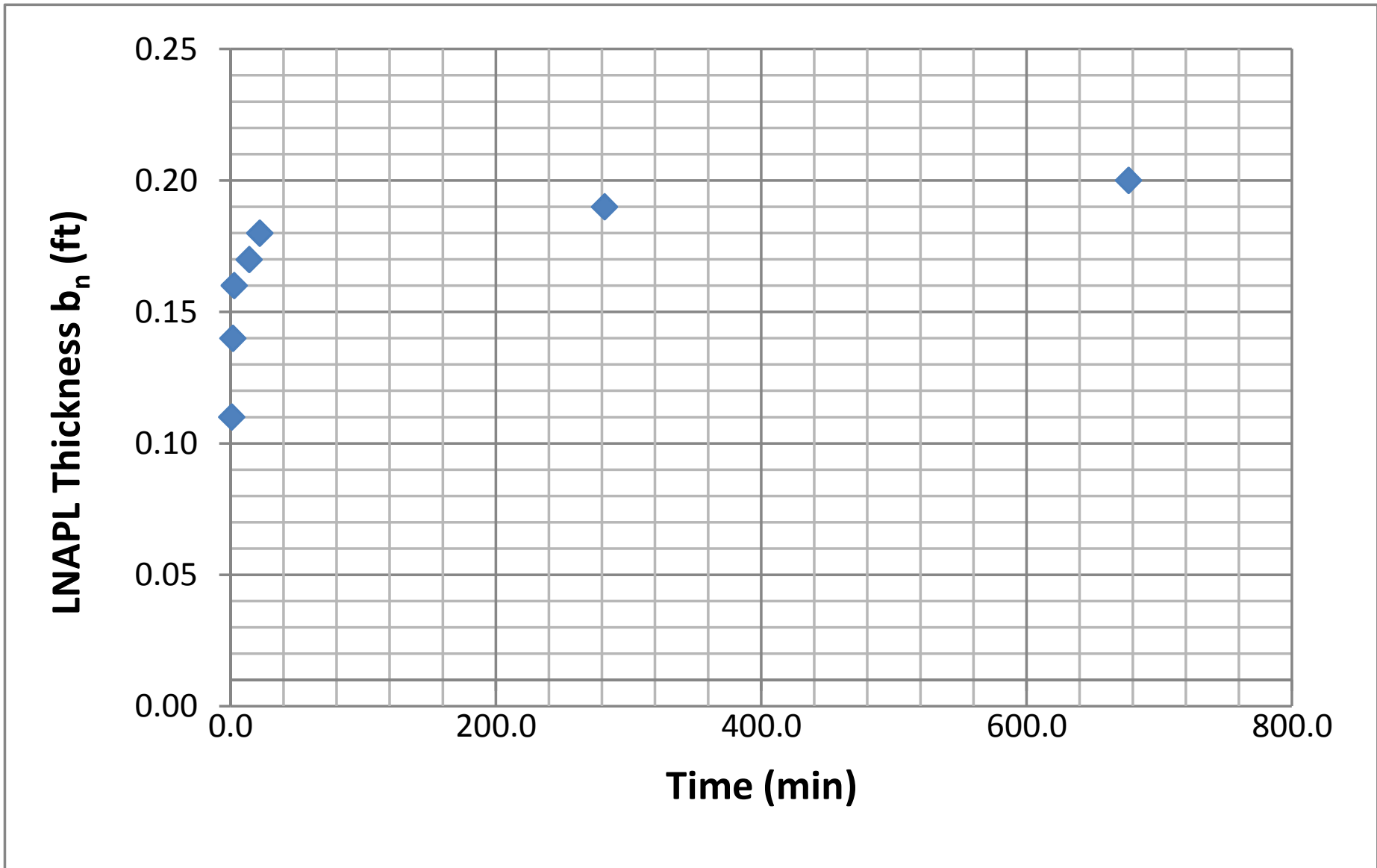
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 5



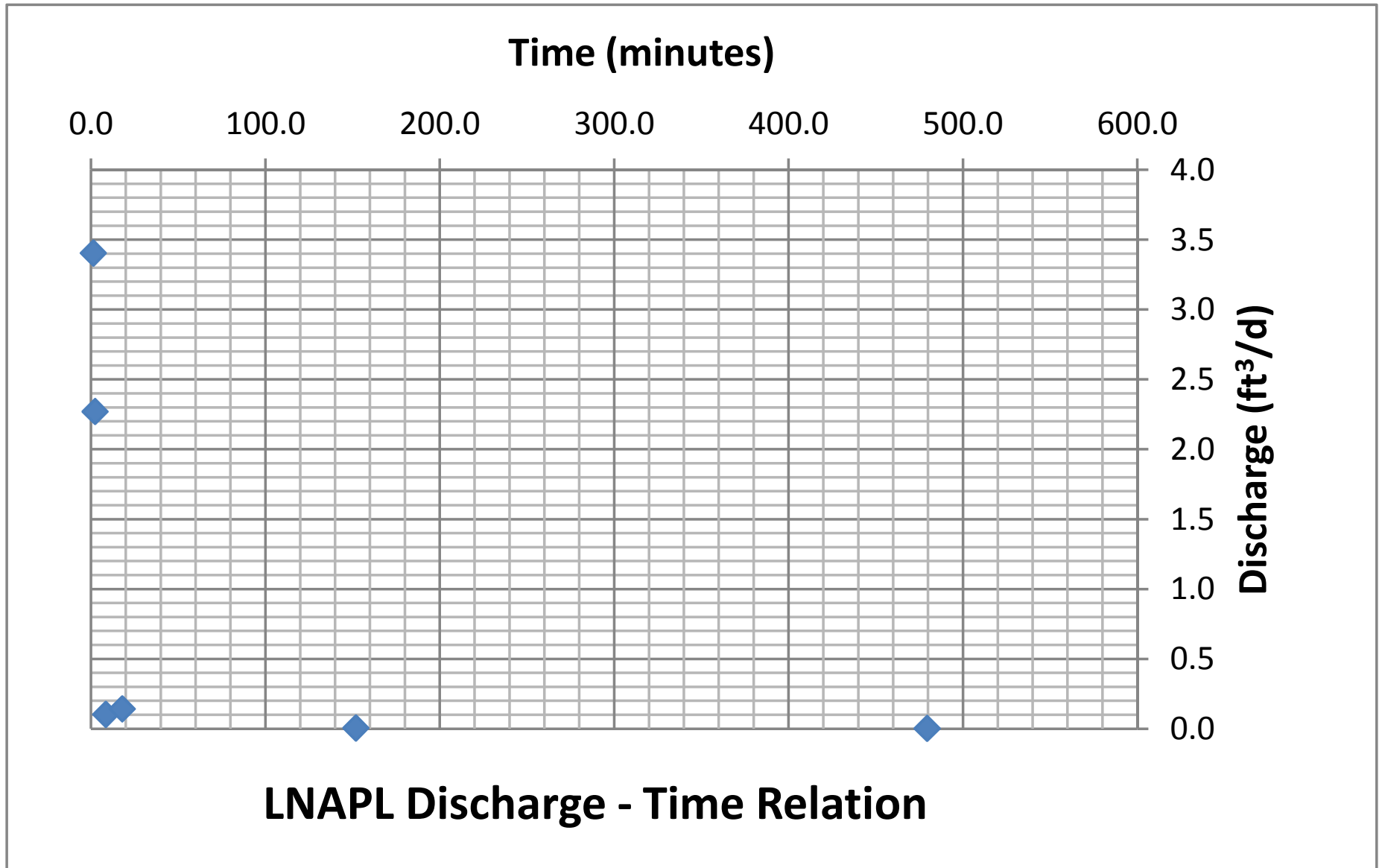
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 6



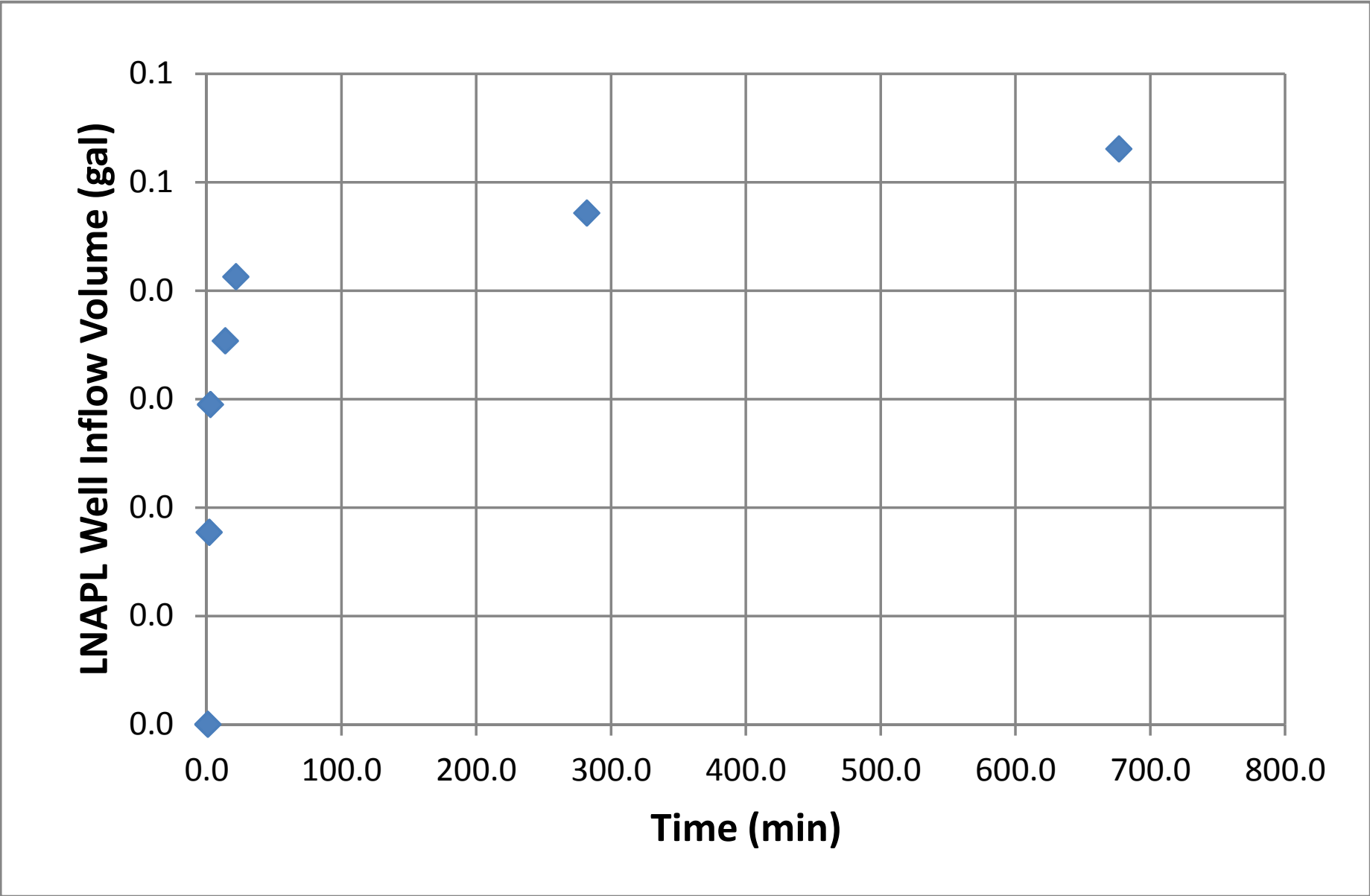
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 7



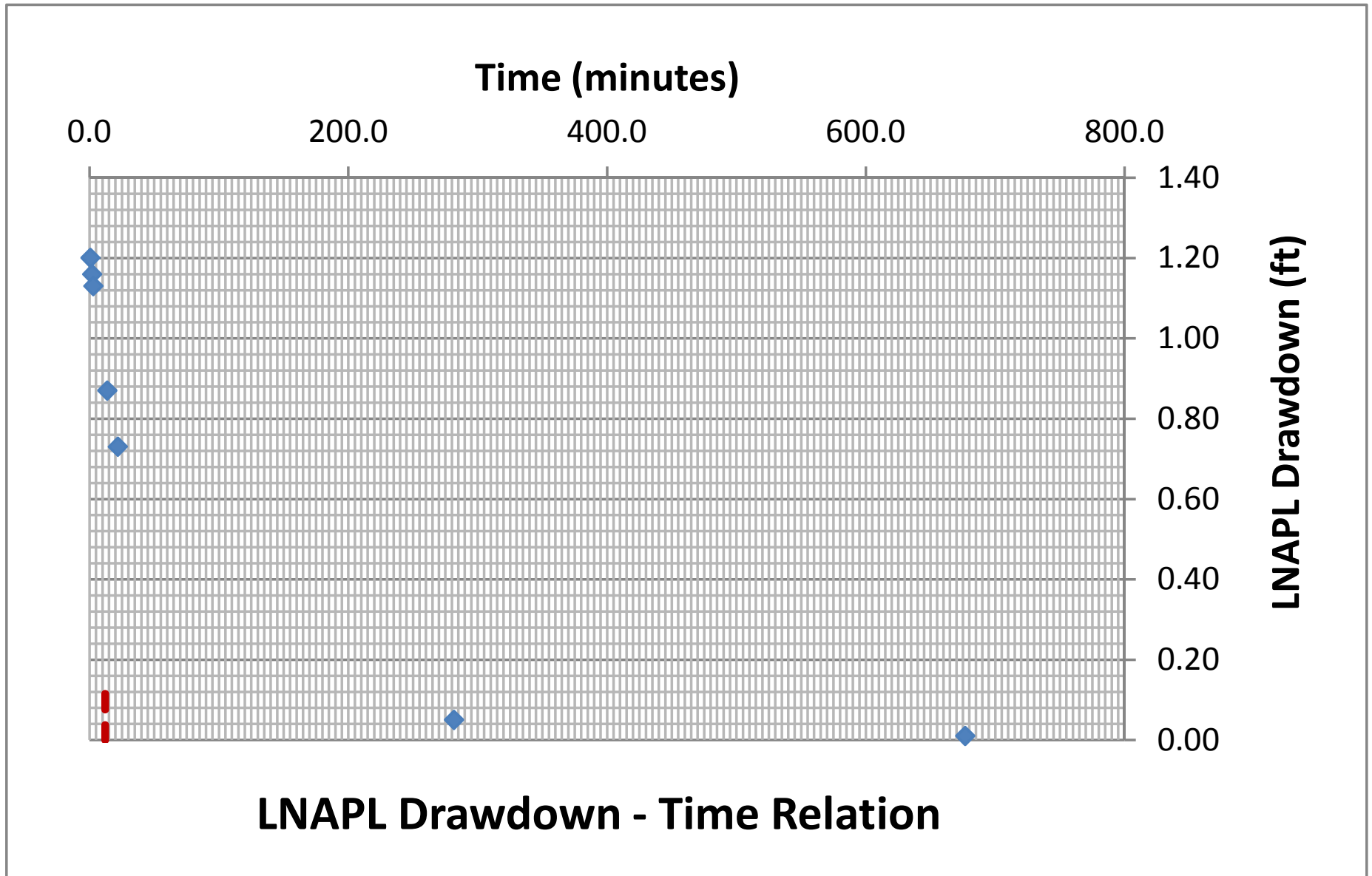
MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 8



MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 9



MW-16 Baildown Test Data Analysis - Filtered Data Set
Figure 10



MW-16 Baildown Test Data Analysis - Filtered Data Set

Generalized Bouwer and Rice (1976)

Well Designation:	MW16
Date:	16-Jul-15

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

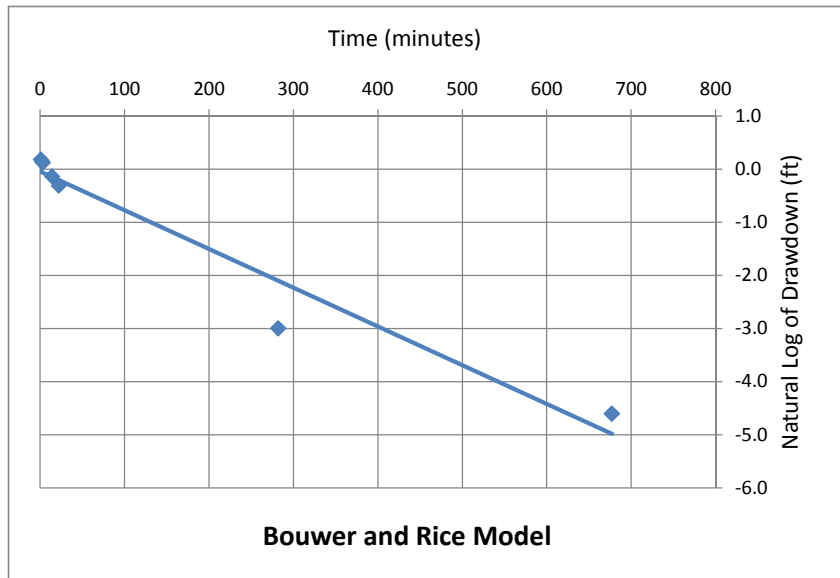
Time_{cut} <- Enter or change value here

Model Results: T_n (ft²/d) = 0.00 +/- 0.00 ft²/d

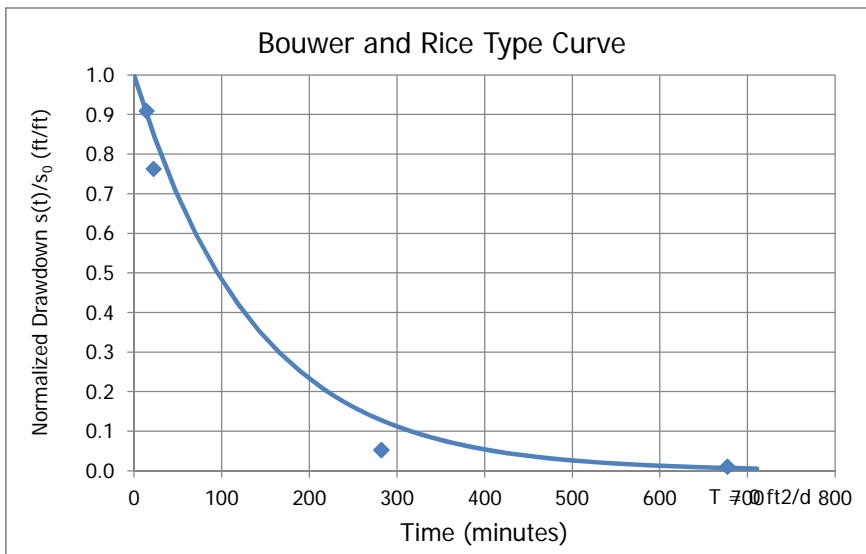
L _e /r _e	2.9
C	0.91
R/r _e	2.10

J-Ratio	-20.000
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Coef. Of Variation	0.10
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C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



MW-16 Baildown Test Data Analysis - Filtered Data Set

Cooper and Jacob (1946)

Well Designation:	MW16
Date:	16-Jul-15

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n s_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	14	<- Enter or change values here
Time Adjustment (min):	8.4	

Trial S_n: d <- Enter d for default or enter S_n value

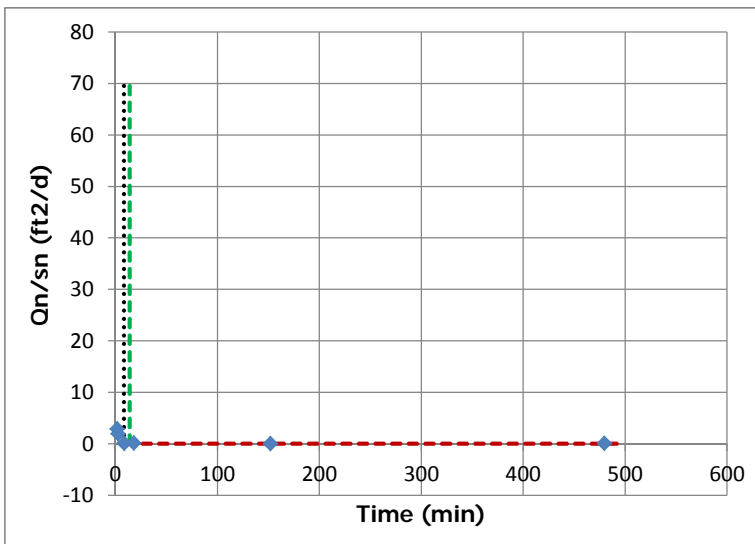
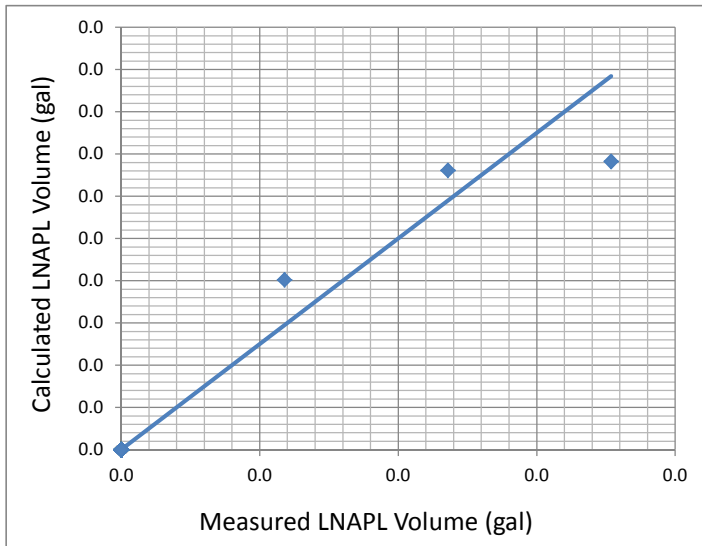
Root-Mean-Square Error: 0.005 <- Minimize this using "Solver"

0.001 <- Working S_n

Trial T_n (ft²/d): 0.002 <- By changing T_n through "Solver"

Add constraint T_n > 0.00001

Model Result: T_n (ft²/d) = 0.00



Height
70

MW-16 Baildown Test Data Analysis -
Filtered Data Set

Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	MW16
Date:	16-Jul-15

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	14	<-- Enter or change values here
Initial Drawdown s _n (ft):	0.87	

Trial S_n: d <-- Enter d for default

Root-Mean-Square Error: 0.029 <-- Minimize this using "Solver"

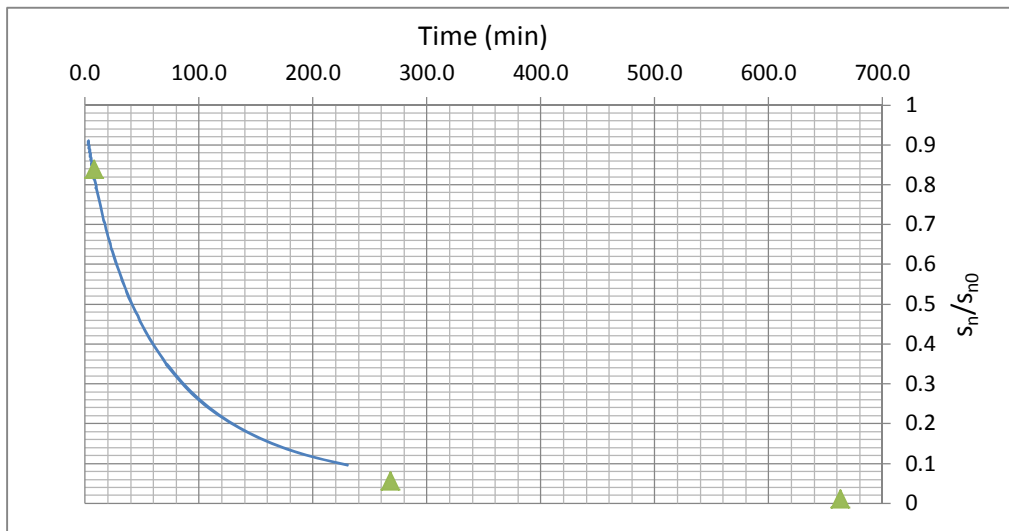
Trial T_n (ft²/d): 0.043 <-- By changing T_n through "Solver"

0.005 <-- Working S_n Add constraint Tn > 0.00001

Model Result:

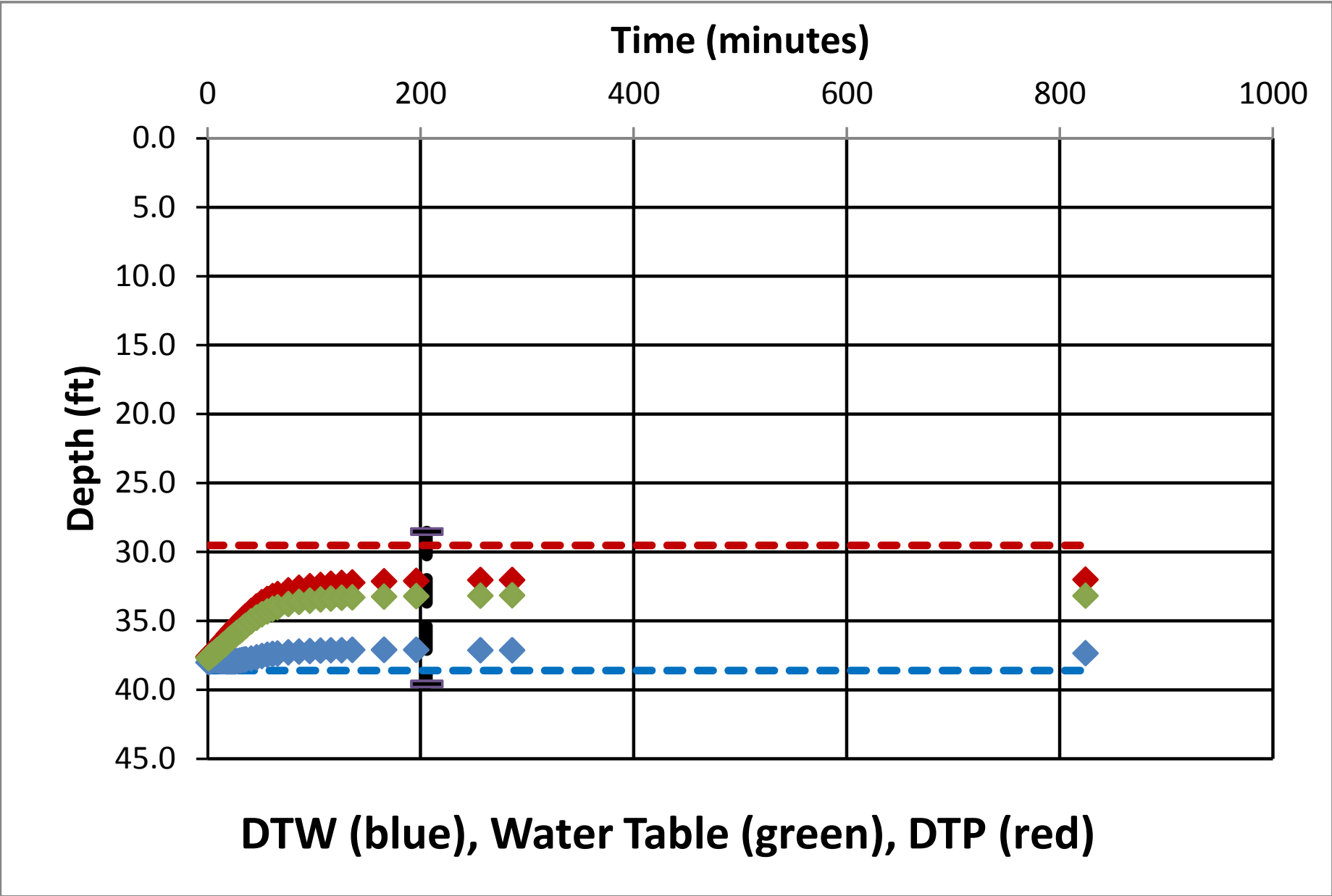
T_n (ft²/d) = 0.04

T _{min}	3
T _{max}	230

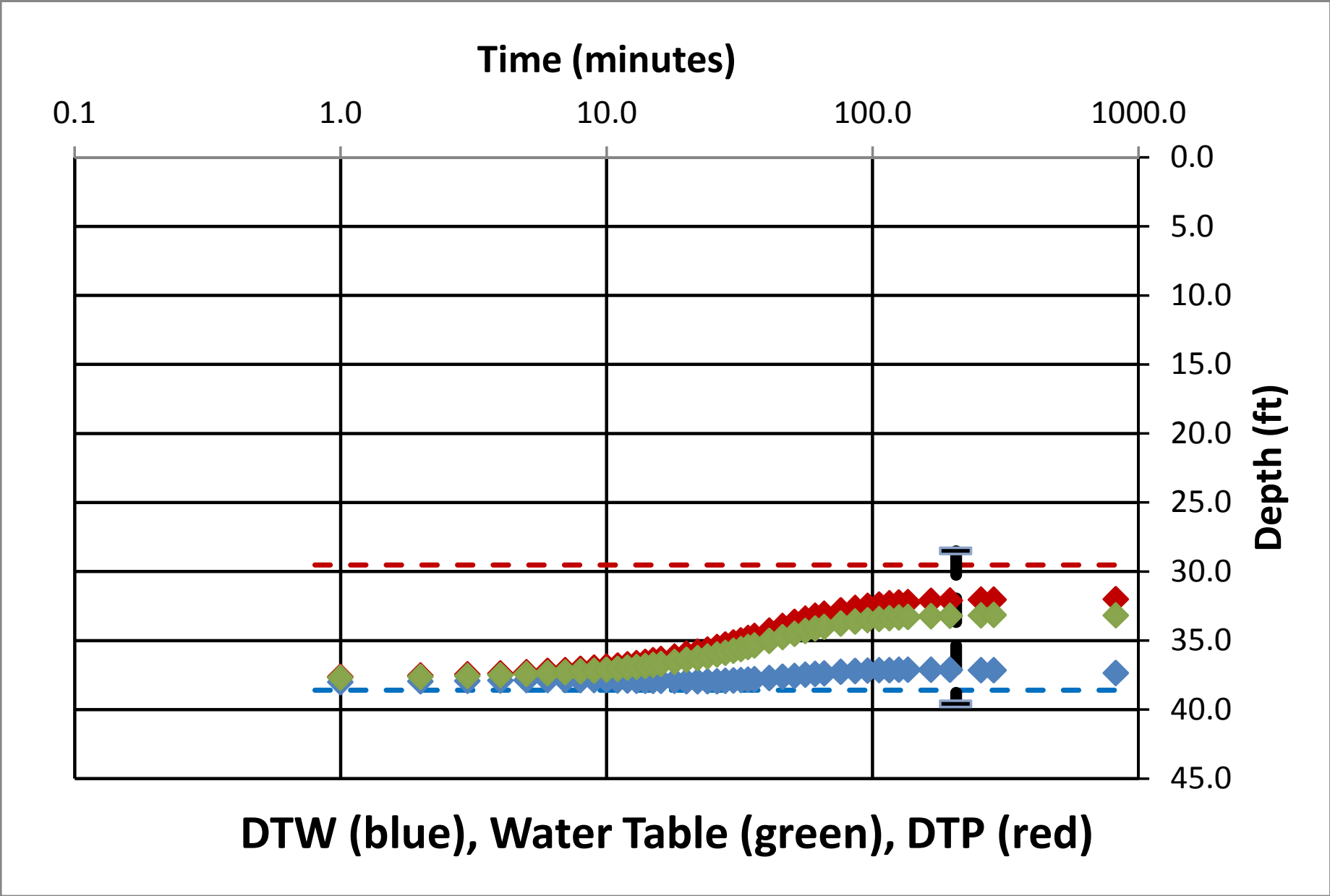


J-Ratio
-20.000

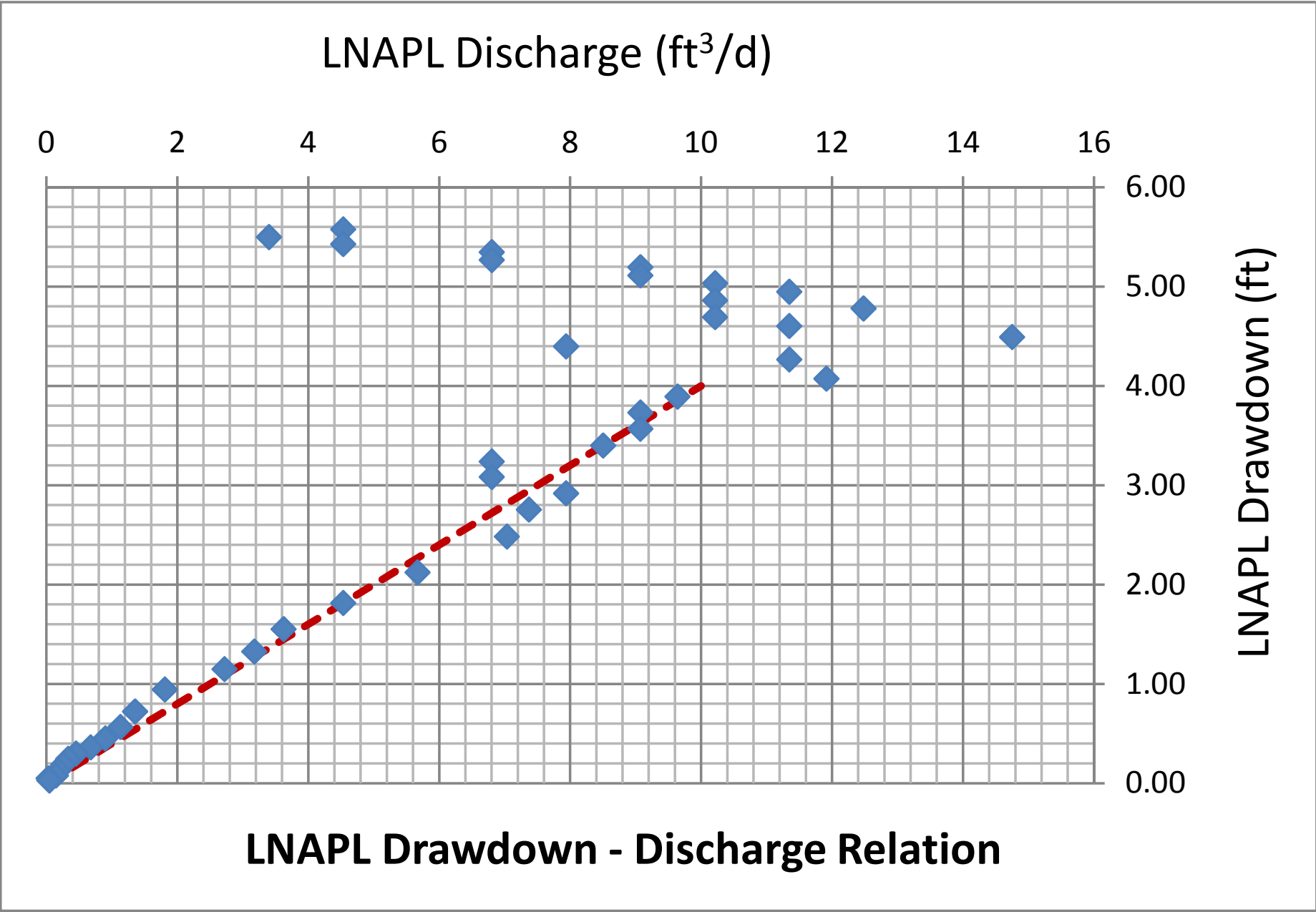
MW-10 Baildown Test Data Analysis
Figure 1



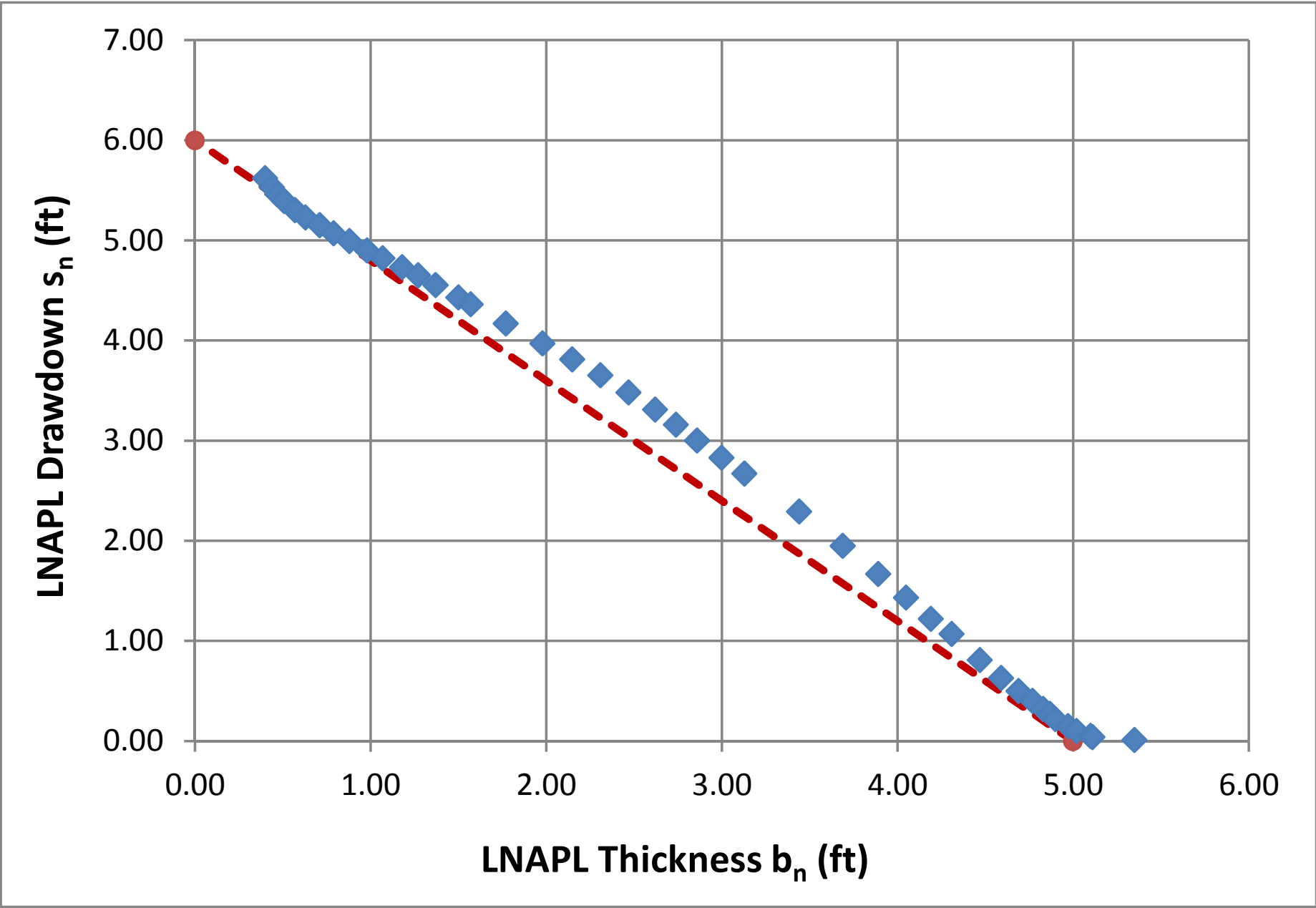
MW-10 Baildown Test Data Analysis
Figure 2



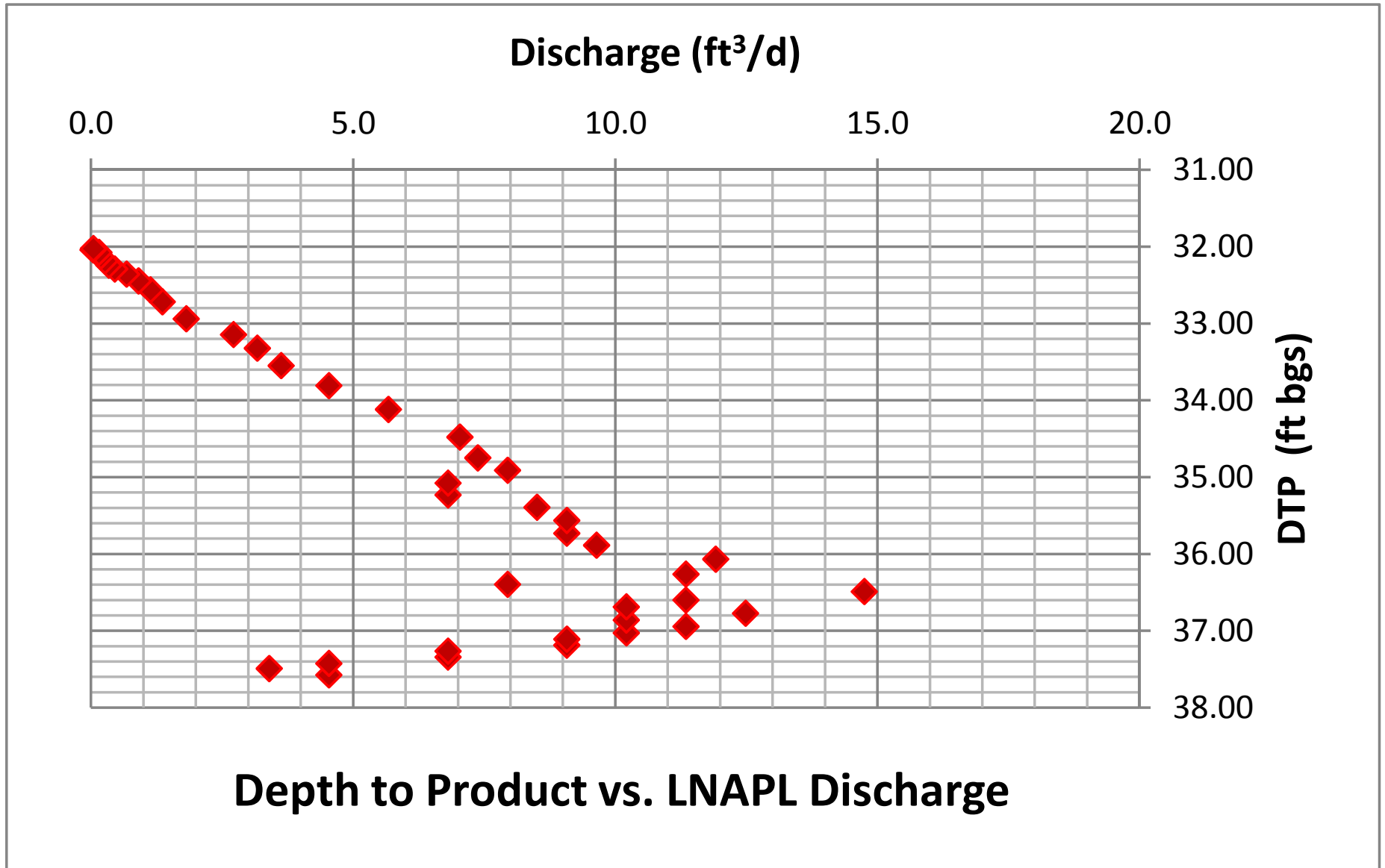
MW-10 Baildown Test Data Analysis
Figure 3



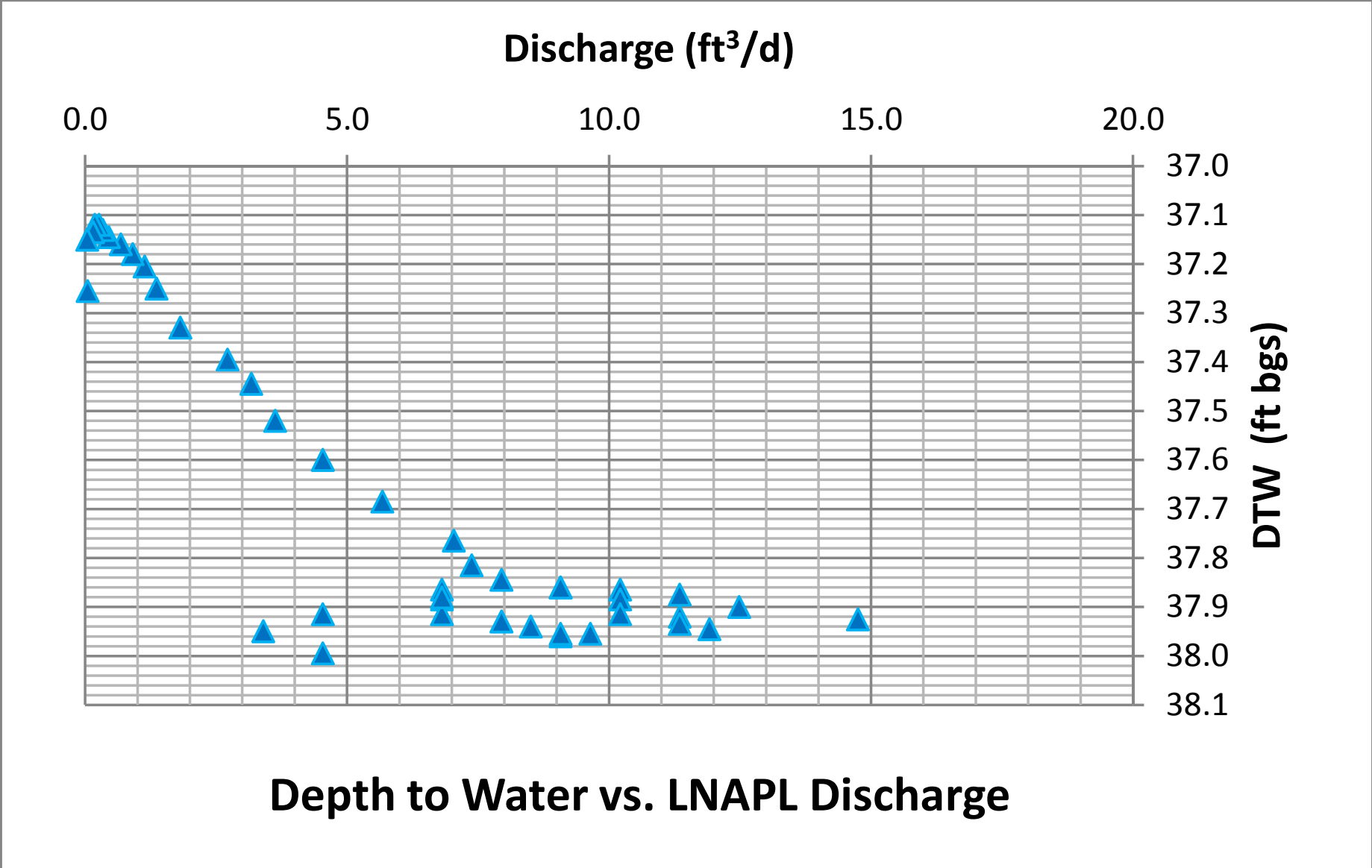
MW-10 Baildown Test Data Analysis
Figure 4



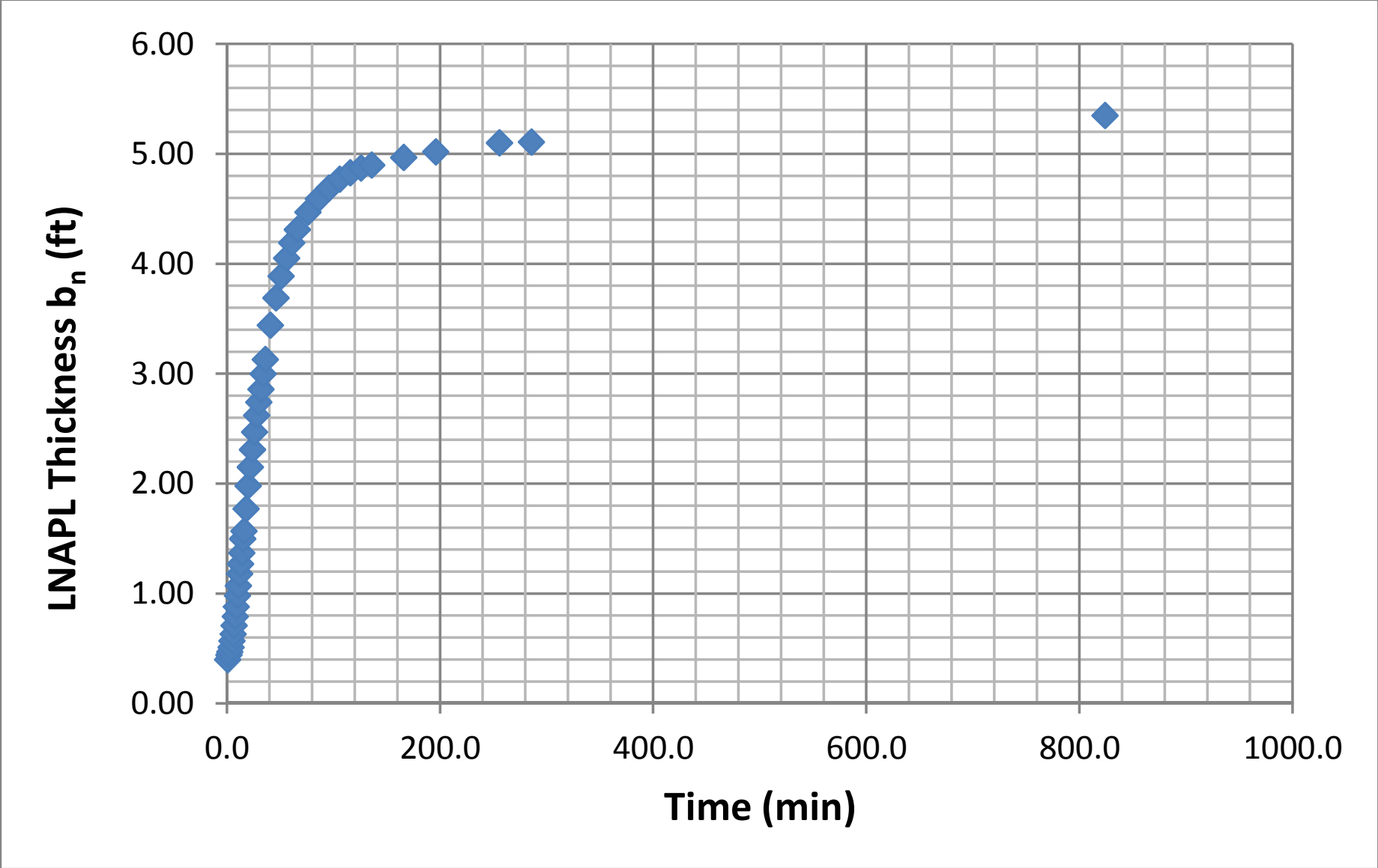
MW-10 Baildown Test Data Analysis
Figure 5



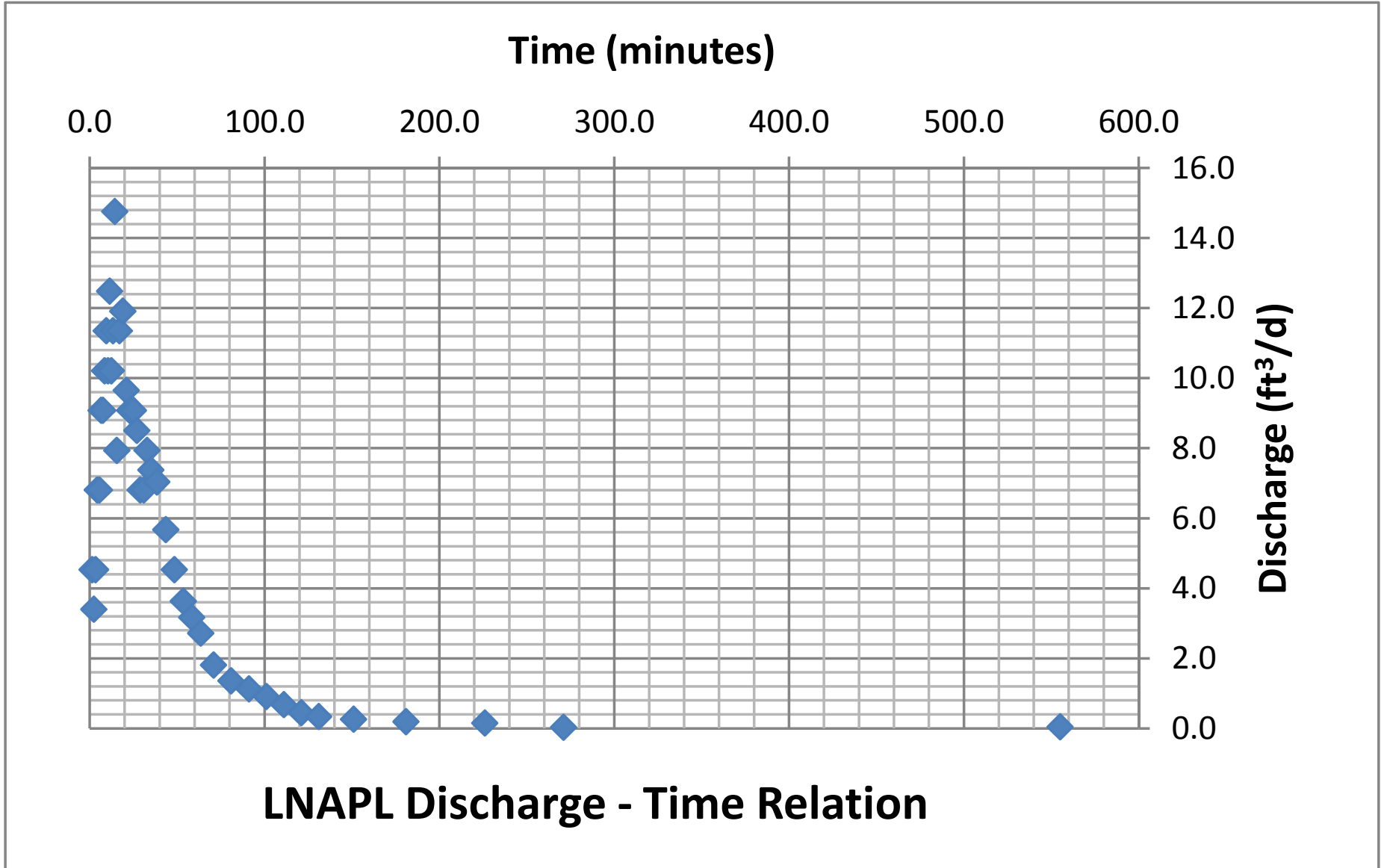
MW-10 Baildown Test Data Analysis
Figure 6



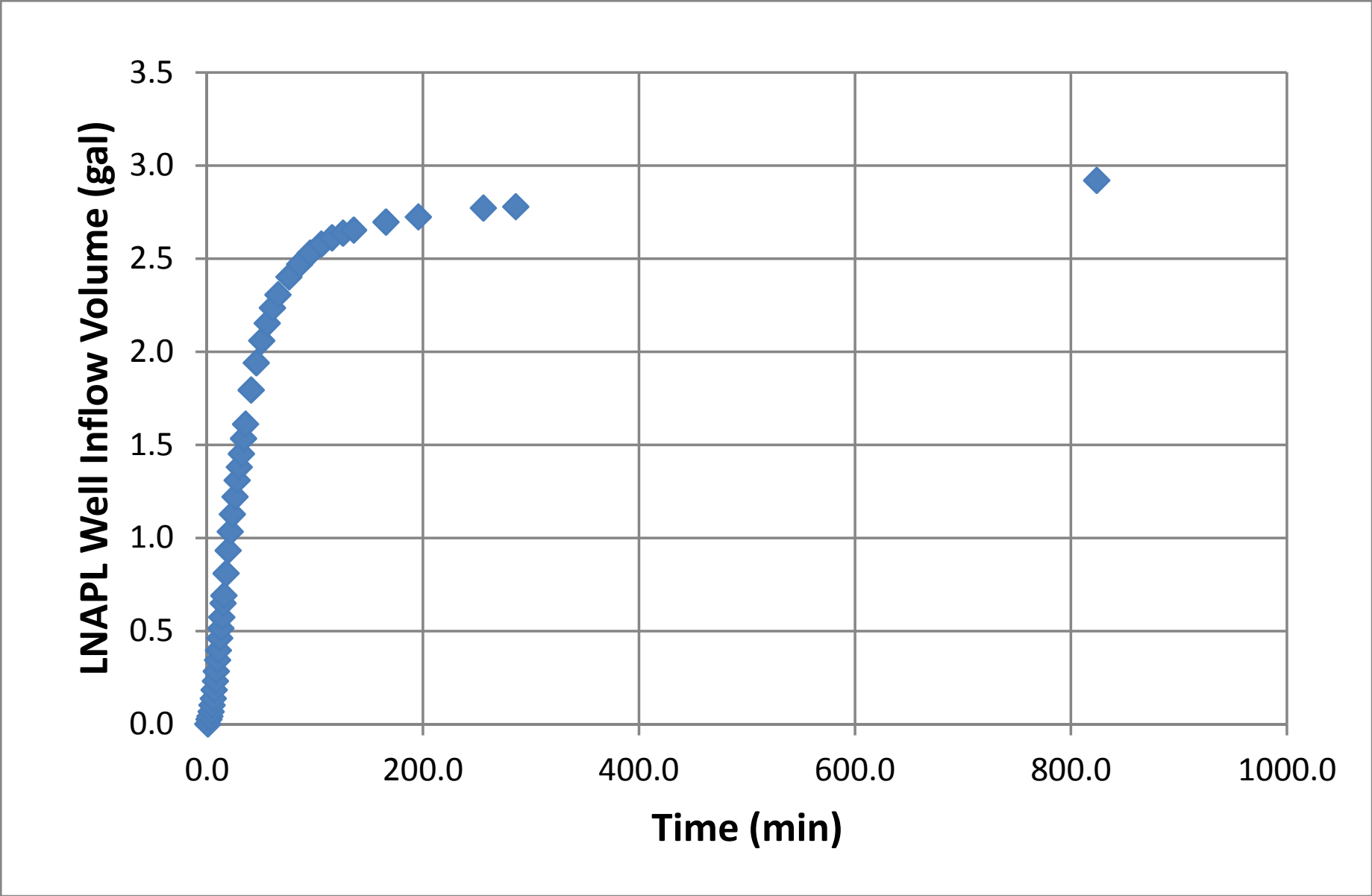
MW-10 Baildown Test Data Analysis
Figure 7



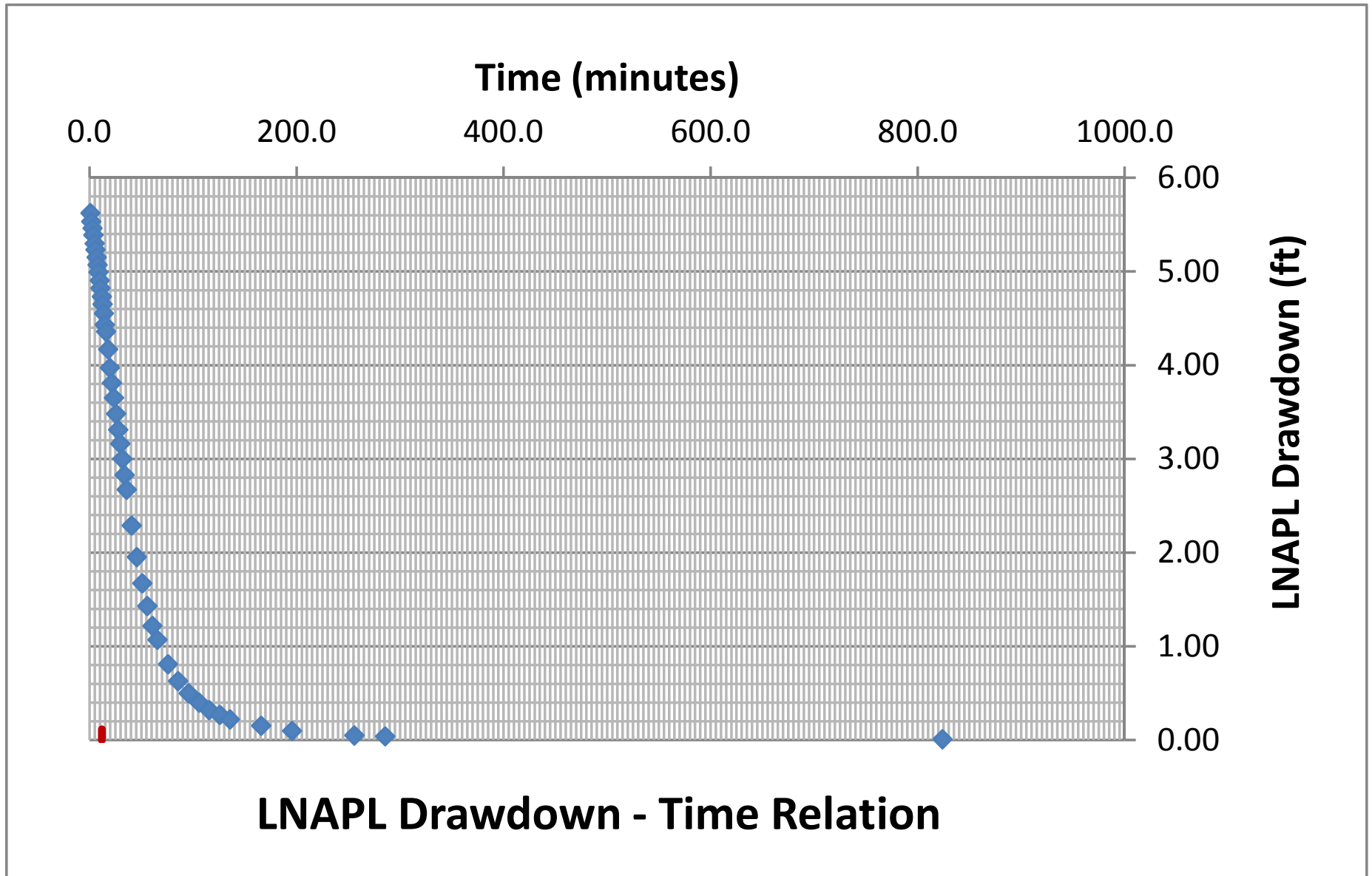
MW-10 Baildown Test Data Analysis
Figure 8



MW-10 Baildown Test Data Analysis
Figure 9



MW-10 Baildown Test Data Analysis
Figure 10



LNAPL Drawdown - Time Relation

Generalized Bouwer and Rice (1976)

Well Designation:	MW-10
Date:	16-Jul-15

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

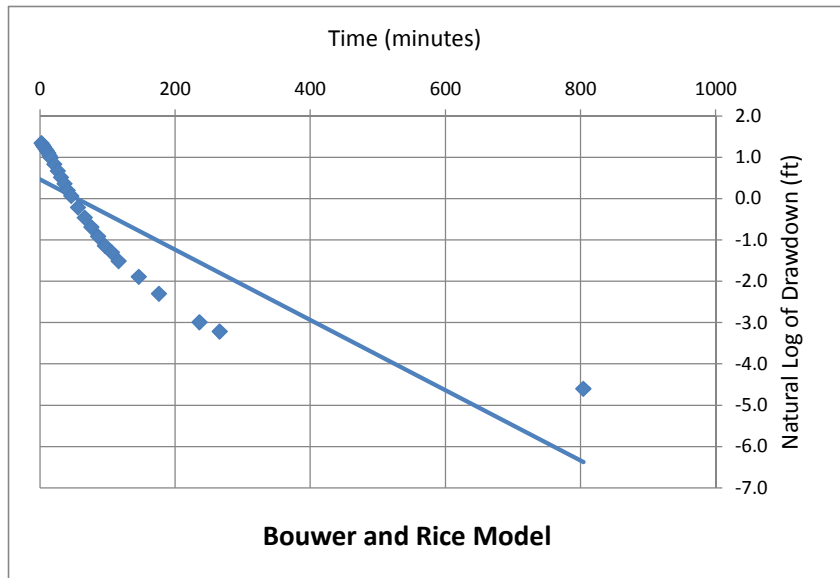
Time_{cut} <- Enter or change value here

Model Results: +/- ft²/d

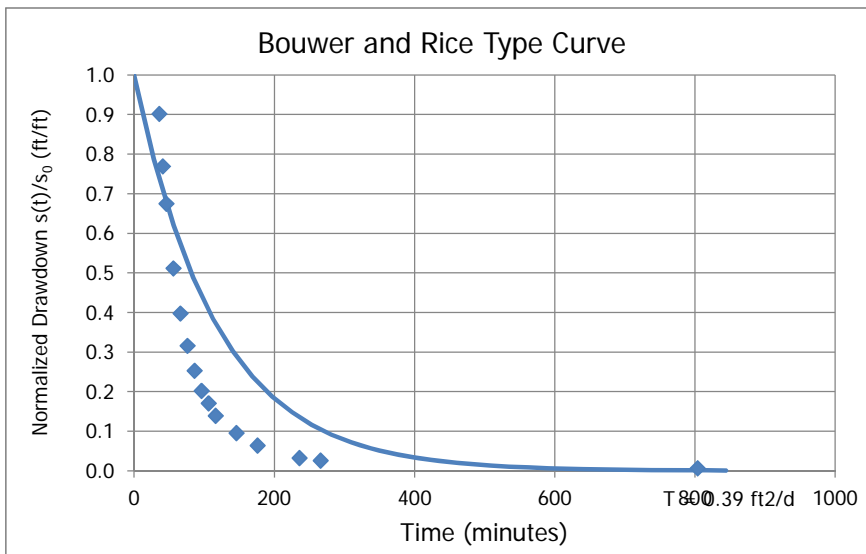
L _e /r _e	57.3
C	3.09
R/r _e	21.56

J-Ratio	-1.200
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Coef. Of Variation	0.13
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C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper and Jacob (1946)

Well Designation:	MW-10
Date:	16-Jul-15

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n s_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	20
Time Adjustment (min):	12

<- Enter or change values here

Trial S _n :	d
------------------------	---

<-- Enter d for default or enter S_n value

Root-Mean-Square Error:	0.241
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<-- Minimize this using "Solver"

0.022

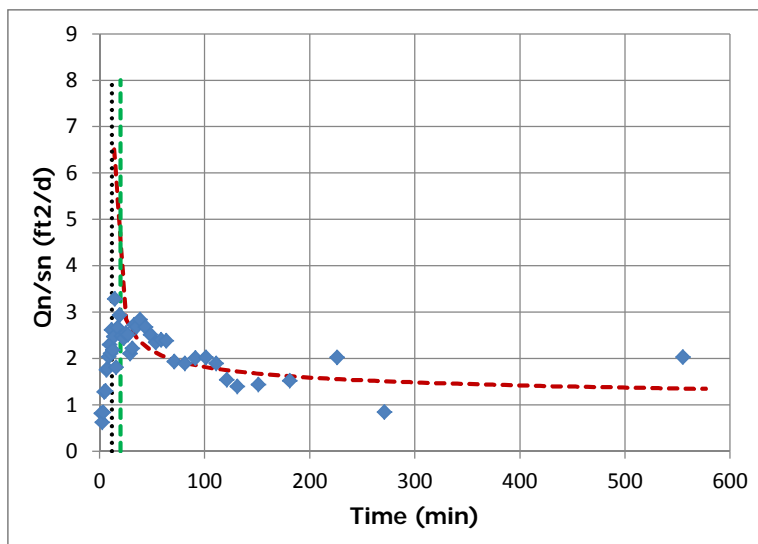
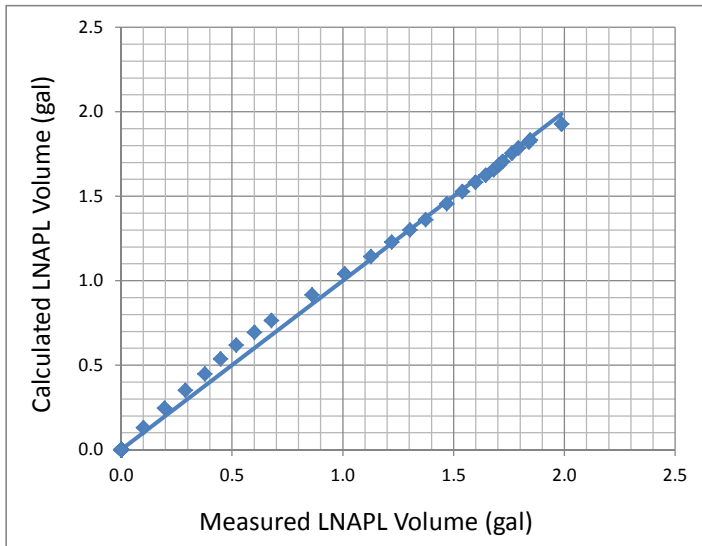
<-- Working S_n

Trial T _n (ft ² /d):	0.759
--	-------

<-- By changing T_n through "Solver"

Add constraint T_n > 0.00001

Model Result: T_n (ft²/d) = 0.76



Height
8

Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	MW-10
Date:	16-Jul-15

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	20	<-- Enter or change values here
Initial Drawdown s _n (ft):	3.97	

Trial S_n: d <-- Enter d for default

Root-Mean-Square Error: 0.394 <-- Minimize this using "Solver"

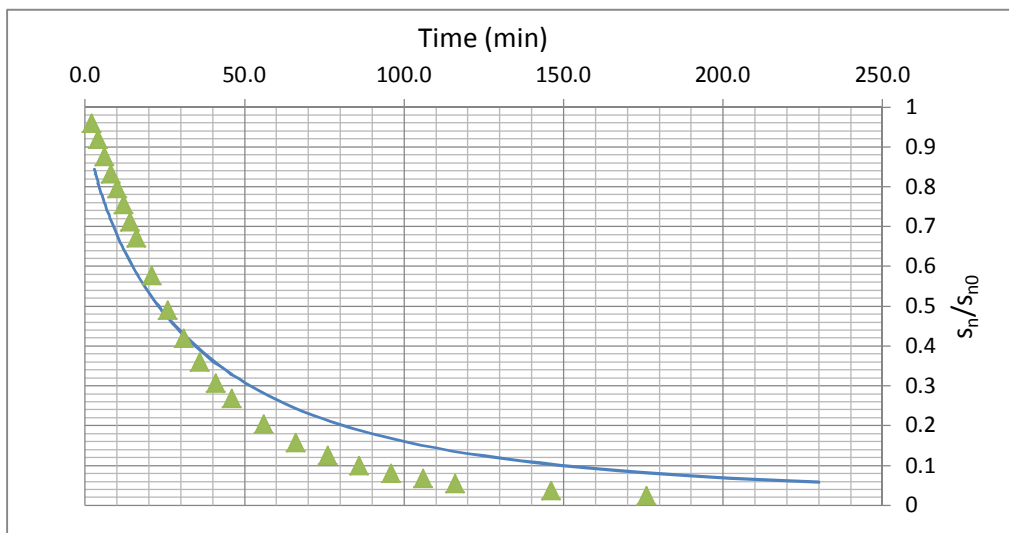
Trial T_n (ft²/d): 0.896 <-- By changing T_n through "Solver"

0.024 <-- Working S_n Add constraint T_n > 0.00001

Model Result:

T_n (ft²/d) = 0.90

T _{min}	3
T _{max}	230



J-Ratio
-1.200