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March 3, 2017

Project No. 631215717

Greg Rainwater
AT&T Services, Inc.
308 S. Akard Street, Room 1700
Dallas, Texas 75202

Re: Annual Groundwater and LNAPL Monitoring and Extraction Report
AT&T Data Center - 20307 North Creek Parkway, Bothell, Washington
Department of Ecology TCP# NW2011, ID# 3706871

Dear Mr. Rainwater:

CB&I Environmental & Infrastructure, Inc. (CB&I) is pleased to present the results of the 2016 groundwater and light non-aqueous phase liquids (LNAPL) monitoring activities conducted at the AT&T Bothell Facility (Site) located at 20307 North Creek Parkway, Bothell, Washington (Figure 1). This 2016 Annual Groundwater Monitoring Report includes activities conducted during the fourth quarter of 2015 and all four quarters of 2016. Additionally, two semi-annual groundwater monitoring events were performed in 2016 to assess the progress of remedial actions at the Site. The following sections summarize:

- the historical activities conducted at the Site,
- the Site geology and hydrogeology,
- the two 2016 semi-annual groundwater monitoring events to assess progress of remedial actions at the Site and associated laboratory results,
- the fourth quarter of 2015 and all four quarters of 2016 groundwater pumping and processing through the oil water separator (OWS), and Site groundwater depth measurements compared to the impermeable liner and LNAPL measurement and removal,
- OWS system laboratory results and pumping volumes; and
- Conclusions of results for the monitoring period.

Background and Site History

The AT&T Data Center is located in the northwest corner of the Schnitzer North Creek development in Bothell, Washington. North Creek Parkway borders the Site to the east and Interstate 405 borders the Site to the west. The Site is largely paved and contains three office buildings and a generator building. The Site is approximately 8.13 acres and is situated within N1/2, NE1/4, Section 5, T26N, R5E, King County, Washington. The Site, currently operated by AT&T, is zoned for commercial/industrial use.

In August 2008, approximately 15,000 gallons of diesel fuel was released from the aboveground storage tanks located adjacent to the west wall of the generator building. The initial response and subsequent remedial activities were successful in containing subsurface diesel impacts within AT&T property boundaries. The results

are detailed in a Shaw Environmental & Infrastructure, report entitled *Emergency Response and Remedial Activities Report* (ERRAR), dated January 2010.

A total of eight groundwater monitoring wells were installed during and after the emergency response activities to determine the magnitude and extent of groundwater impact. An impermeable liner was installed in the remedial excavation to prevent diesel-contaminated water from entering the backfill of the nearby stormwater line and/or the line itself. Ten extraction wells were installed upgradient of the impermeable liner to provide access for the recovery of contaminated water. The ERRAR includes details about the spill cleanup, monitoring well and extraction well installation, the initial round of groundwater sampling conducted on October 2, 2008, and four quarters of groundwater sampling conducted during 2009.

Groundwater analytical results from the 2009 through the 2013 sampling events indicate no detections above laboratory method reporting limits or Model Toxics Control Acts (MTCA) Method A Groundwater Cleanup Levels for total petroleum hydrocarbons (TPH) as diesel (TPH-D), TPH as oil (TPH-O), or benzene, toluene, ethyl benzene, and xylenes (BTEX) in groundwater from perimeter wells MW-1 through MW-7.

Groundwater analytical results from 2009 through the 2013 sampling events for well MW-8 (installed January 5, 2009 near the spill area) contained TPH-D concentrations ranging from 1,030 to 2,900 micrograms per liter (µg/L), above the MTCA Method A Groundwater Cleanup level of 500 µg/L. TPH-O concentrations were reported as non-detect with one result of 570 µ/L, above the MTCA Method A Groundwater Cleanup Level of 500 µ/L on October 5, 2012. Benzene concentrations ranged from non-detect to 86.3 µg/L (benzene was above the MTCA Method A Groundwater Cleanup Level of 5 µg/L in seven of the twelve sampling events). The total xylene concentration was reported at 1,000 µg/L in January 2009, equal to the MTCA Method A Groundwater Cleanup Level of 1,000 µg/L for total xylenes. Concentrations of total xylene have remained below the MTCA Method A Groundwater Cleanup or non-detect since January 2009. The groundwater flow direction during all previous sampling events was to the south or southeast.

A new continuous-operation groundwater remediation system began operation on July 29, 2013. The groundwater recovery and treatment system consists of pneumatic diaphragm groundwater recovery pumps powered by a 5 horsepower air compressor. The extracted groundwater is pumped to an OWS that removes LNAPL from the groundwater. The OWS can process up to 20 gallons per minute (gpm). Any LNAPL that collects in the OWS flows by gravity into a 120-gallon product holding tank located on the OWS skid, within secondary containment. The groundwater effluent is discharged to the sanitary sewer.

Additional pneumatic pumps were added over the course of 2013. There are between two and four pumps running at any time to assist in hydrologic control, keeping the groundwater levels below the liner and/or in LNAPL recovery. For this reporting period, a pump installed in EW-3 and one installed in EW-5 are currently running.

A Discharge Authorization to allow discharge of pumped groundwater into the sanitary sewer was acquired from King County and the City of Bothell (Permit/DA No. 813-02, revised June 3, 2011). As part of the sanitary sewer discharge permit, discharge monitoring reports are prepared semi-annually. The reports include monthly

discharge volumes and semi-annual grab samples which are analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and northwest total petroleum hydrocarbons - diesel range (NWTPH-Dx) with silica gel cleanup. The Discharge Authorization allows the discharge of up to 25,000 gallons per day.

Site Geology and Hydrogeology

The Site is located in the North Creek basin, which is typically underlain by floodplain and alluvial deposits consisting of inter-bedded organic silt, peat, and sand. Above these deposits is medium dense to dense sand fill imported during Site development. The organic silt and peat at the subject Site is typically encountered at depths between 2 and 10 feet below ground surface (bgs) and extends to depths ranging from 20 to 65 feet bgs.

Shallow groundwater is present beneath the Site and ranges in depth from approximately 2 to 8 feet bgs. The groundwater is generally present in the fill material and is perched atop the peat layer. The groundwater fluctuates considerably with precipitation, seasons, and the level of nearby North Creek. The maximum thickness of the saturated zone is expected to occur during the winter months of December, January, and February when precipitation amounts are greatest. Groundwater elevation data indicates the general direction of flow of the shallow groundwater is to the south-southeast.

Semi-Annual Groundwater Monitoring 2016

Semi-annual groundwater monitoring was conducted during the months of June and December, 2016. The locations of the eight groundwater monitoring wells sampled, MW-1 through MW-8, are shown on Figure 2.

June 2016 Groundwater Monitoring Event

The first 2016 semi-annual groundwater monitoring event was performed on June 2 and 3, 2016. The groundwater flow direction during the monitoring event (as measured on June 2, 2016) was to the southeast, as shown on Figure 4. This flow direction remains consistent with previous monitoring events. Monitoring well MW-4 was not used in the groundwater contour elevation generation due to higher than normal water levels which appeared to be an anomaly. Groundwater sampling was performed using low-flow sampling techniques. The depth to water in each monitoring well, extraction well and piezometer well was measured and recorded; the monitoring wells were then purged and sampled with a portable peristaltic pump system fitted with dedicated polyethylene and silicone tubing. During well purging, field water quality parameters (temperature, pH, specific conductance, dissolved oxygen [DO], oxidation reduction potential [ORP], and turbidity) were measured approximately every five minutes and recorded on field sampling data sheets (FSDSs). The wells were purged until the field water quality parameters stabilized to within 10 percent for specific conductivity, pH, DO, ORP, and temperature for three consecutive measurements. TPH-D and TPH-O groundwater samples were then collected directly into laboratory-supplied containers from the pump discharge tubing, labeled, and placed in a chilled cooler. BTEX samples are not allowed to run through the peristaltic pump. Instead, the BTEX samples were collected from a reverse flow peristaltic pump.

The monitoring well samples were submitted under chain-of-custody documentation to SGS Accutest of San Jose, California, for analysis of TPH-D and TPH-O by Ecology Method NWTPH-Dx with silica gel cleanup and BTEX by EPA Method 8260B.

Groundwater analytical results from the June 2016 groundwater sampling event indicated that TPH-D, TPH-O, and BTEX concentrations were below their respective MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from wells MW-1 through MW-7. The concentration of TPH-D in the groundwater sample collected from well MW-8 (1,340 µg/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L. All other constituents analyzed from MW-1 through MW-8 were reported below their respective MTCA Method A Groundwater Cleanup Levels, consistent with previous sampling results. The groundwater elevation summary and analytical results are presented in Table 1. The June 20, 2016, laboratory analytical report is provided in Attachment 1 and the FSDSs are provided in Attachment 2.

December 2016 Groundwater Monitoring Event

The second 2016 semi-annual groundwater monitoring event was performed on December 13, 14, and 15, 2016. The groundwater flow direction, as measured on December 13, 2016, was to the south, as shown on Figure 5. This flow direction remains consistent with previous monitoring events. Monitoring well MW-5 was not used in groundwater elevation contour generation due to the well being dry throughout the gauging and sampling period. Groundwater sampling was performed using low-flow sampling techniques. The depth to water in each well was measured and recorded. The wells were then purged and sampled with a portable peristaltic pump system. During well purging, field water quality parameters (temperature, pH, specific conductance, DO, ORP, and turbidity) were measured approximately every 5 minutes and recorded on FSDSs. The wells were purged until the field water quality parameters stabilized to within 10 percent for specific conductivity, pH, DO, ORP, and temperature for three consecutive measurements. TPH-D and TPH-O groundwater samples were then collected directly into laboratory-supplied containers from the pump discharge tubing, labeled, and placed in a chilled cooler. BTEX samples are not allowed to run through the peristaltic pump. Instead, the BTEX samples were collected from a reverse flow peristaltic pump.

The monitoring well samples were submitted under chain-of-custody documentation to Pace Analytical in Davis, California, for analysis of TPH-D and TPH-O by Ecology Method NWTPH-Dx with silica gel cleanup and BTEX by EPA Method 8260B.

Groundwater analytical results for the December 2016 groundwater sampling event indicated that TPH-D, TPH-O, and BTEX concentrations were below their respective MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from wells MW-1 through MW-4, MW-6, and MW-7. The concentration of TPH-D in the groundwater sample collected from well MW-8 (2,600 µg/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L. All other constituents analyzed from MW-1 through MW-4 and MW-6 through MW-8 were reported below their respective MTCA Method A Groundwater Cleanup Levels, consistent with previous sampling results. Groundwater elevation summaries and analytical results are presented in Table 1. The December 23, 2016, laboratory analytical report is provided in Attachment 3 and the FSDSs are provided in Attachment 4.

Summary of Depth to Groundwater and LNAPL Measurement Efforts During the Monitoring Period

CB&I monitored groundwater and LNAPL levels in 10 extraction wells (EW-1 through EW-10), during the fourth quarter of 2015 and all four quarters of 2016 (Figure 3). Based upon those measurements, and in an attempt to contain LNAPL and impacted groundwater on-Site, groundwater and LNAPL was pumped from the specified wells.

CB&I also monitored interior observation wells and piezometers (OW-1 through OW-3, and B-19 through B-21 and B-25 through B-28), throughout the monitoring period. LNAPL was pumped from observation wells and piezometers inside the generator building. The purged LNAPL was placed in the 120-gallon LNAPL holding tank on the OWS skid for future disposal.

The results of groundwater/ LNAPL monitoring and pumping during each of the reported quarters are summarized below.

Fourth Quarter 2015 Through Fourth Quarter 2016 Groundwater/LNAPL Monitoring and Pumping Results

CB&I monitored groundwater and LNAPL levels during the fourth quarter of 2015 through 2016 (October 1, 2015 through December 31, 2016) in a select number of the extraction and observation wells and piezometers at the Site. LNAPL and groundwater were recovered from the wells or piezometers if LNAPL was present greater than 0.03 feet thick. A peristaltic pump and tubing were used to pump the LNAPL from the LNAPL/groundwater interface. The LNAPL/groundwater mixture was pumped into a graduated bucket; the totals of each liquid, LNAPL and groundwater, were recorded until a recoverable amount of LNAPL was no longer achievable. Readings were recorded and the LNAPL/groundwater mixture was transferred to the 120-gallon LNAPL holding tank on the OWS skid for future disposal.

LNAPL was recorded in extraction well EW-5 on one occasion, October 2, 2015 with a LNAPL thickness of 0.03 feet. LNAPL was recovered from observation wells/piezometers OW-2, B-19, B-20, B-25, and B-26 on multiple occasions. During the fourth quarter 2015, approximately 0.80 gallons of manually-recovered LNAPL was transferred to the 120-gallon LNAPL holding tank on the OWS skid for future disposal. The total volume of groundwater extracted from the extraction wells and processed in the OWS at the Site during the fourth quarter of 2015 was 663,358 gallons.

The results of the first quarter 2016 monitoring showed that no measurable LNAPL (0.01 feet or more) had accumulated in any of the extraction wells. However, LNAPL was recovered from observation wells/piezometers OW-2, B-19, B-20, and B-26 on multiple occasions. During the first quarter 2016, approximately 0.1 gallons of manually-recovered LNAPL was transferred to the 120-gallon LNAPL holding tank on the OWS skid for future disposal. The total volume of groundwater extracted from the extraction wells and processed in the OWS at the Site during the first quarter of 2016 was 1,628,947 gallons.

LNAPL was recorded in extraction well EW-5 on one occasion, May 20, 2016 with a LNAPL thickness of 0.01 feet. LNAPL was recovered from observation wells/piezometers B-19, B-20, B-25, and B-26 on multiple occasions. During the second quarter, approximately 0.13 gallons of manually-recovered LNAPL was transferred to the 120-

gallon LNAPL holding tank on the OWS skid for future disposal. The total volume of groundwater extracted from the extraction wells and processed in the OWS at the Site during the second quarter of 2015 was 750,370 gallons.

Throughout 2016, LNAPL was recorded in extraction well EW-5 on one occasion, July 5, 2016, with a LNAPL thickness of 0.01 feet. The results of the third quarter 2016 monitoring showed that no measurable LNAPL (0.01 feet or more) had accumulated in any of the extraction wells. However, LNAPL was recovered from observation wells/piezometers B-19, B-20, B-25, B-26, and OW-3 on multiple occasions. During the third quarter 2016, approximately 0.03 gallons of manually-recovered LNAPL was transferred to the 120-gallon LNAPL holding tank on the OWS skid for future disposal. The total volume of groundwater extracted from the extraction wells and processed in the OWS at the Site during the third quarter of 2016 was 319,576 gallons.

The results of the fourth quarter 2016 monitoring indicate that no measurable LNAPL (0.01 feet or more) had accumulated in any of the extraction wells. However, LNAPL was recovered from observation wells/piezometers B-19, B-20, B-26, and OW-2 on multiple occasions. During the fourth quarter 2016, approximately 0.22 gallons of manually-recovered LNAPL was transferred to the 120-gallon LNAPL holding tank on the OWS skid for future disposal. The total volume of groundwater extracted from the extraction wells and processed in the OWS at the Site during the fourth quarter of 2016 was 639,529 gallons. The extraction well depth to water and LNAPL thickness data is included in Table 2. The total volume of groundwater pumped during the monitoring period is included in Table 3. The volumes of LNAPL and groundwater recovered from each of the observation wells/piezometers in the generator building for all quarters is included in Table 4.

Conclusions

The following results are based on the analytical data collected during the 2016 semi-annual groundwater monitoring events:

The June 2016 groundwater analytical results indicated:

- TPH-O and BTEX concentrations were below the MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from wells MW-1 through MW-8.
- TPH-D concentrations were non-detect in groundwater samples collected from wells MW-1 through MW-7. The TPH-D concentration in MW-8 (1,340 µg/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L.

The December 2016 groundwater analytical results indicated:

- TPH-O and BTEX concentrations were non-detect in groundwater samples collected from all wells MW 1 through MW-8.

- TPH-D concentrations were non-detect in groundwater samples collected from wells MW-1 through MW-7. TPH-D concentration in MW-8 (2,600 µg/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L.

Groundwater analytical results in MW-8 (installed near the release area) indicate that groundwater continues to be impacted with TPH-D above the MTCA Method A Groundwater Cleanup Level of 500 µg/L.

A total of 3,338,422 gallons of groundwater was removed and processed by the on-Site OWS system during the monitoring period. The water was then discharged to the sanitary sewer under the King County Discharge Authorization.

A total of 1.25 gallons of LNAPL was manually pumped from the observation wells and piezometers in the generator building during the monitoring period.

If you have any questions or require additional information, please do not hesitate to contact Leigh Grover at 972-773-8417.

Sincerely,



RONALD THOMAS MALEC

Ron Malec, L.G.
Senior Project Geologist
CB&I Environmental & Infrastructure, Inc.

Leigh Grover
Project Manager

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Tables:

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3 Groundwater Contour Map – June 02, 2016
4 Groundwater Contour Map – December 13, 2016
5 Groundwater Contaminant Concentration Map – June 02, 2016
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A June 2016, Laboratory Analytical Report
B June 2016, Sampling Event Field Sampling Data Sheets
C December 2016, Laboratory Analytical Report
D December 2016, Sampling Event Field Sampling Data Sheets

Tables

Table 1
Groundwater Elevation and Analytical Summary
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Groundwater Elevation (feet)	Concentration (µg/L)					
				TPH-D	TPH-O	Benzene	Toluene	Ethyl benzene	Total Xylene
MTCA Method A Groundwater Cleanup Level				500	500	5	1,000	700	1,000
MW-1 Top of Casing Elev. 36.12 ft	1/12/2009	2.89	33.23	ND	ND	ND	ND	ND	ND
	4/8/2009	3.72	32.40	ND	ND	ND	ND	ND	ND
	7/8/2009	4.41	31.71	ND	ND	ND	ND	ND	ND
	10/28/2009	3.34	32.78	ND	ND	ND	ND	ND	ND
	4/6/2010	4.07	32.05	ND	ND	ND	ND	ND	ND
	10/6/2010	4.59	31.53	ND	ND	ND	1.6	ND	ND
	3/10/2011	1.68	34.44	ND	ND	ND	ND	ND	ND
	9/15/2011	4.87	31.25	ND	ND	ND	ND	ND	ND
	3/15/2012	0.99	35.13	ND	ND	ND	ND	ND	ND
	10/5/2012	4.88	31.24	170Y[c]	360Y[c]	ND	ND	ND	ND
	3/1/2013	2.71	33.41	ND	ND	ND	ND	ND	ND
	10/8/2013	3.45	32.67	ND	ND	ND	ND	ND	ND
	3/17/2014	1.70	34.42	ND	ND	ND	ND	ND	ND
	9/24/2014	1.73	34.39	ND	ND	ND	ND	ND	ND
	3/25/2015	3.30	32.82	ND	ND	ND	ND	ND	ND
	9/29/2015	4.73	31.39	ND	ND	ND	ND	ND	ND
	6/2/2016	4.28	31.84	ND	32.6 J	ND	1.1	ND	ND
	12/14/2016	2.88	33.24	ND	ND	ND	ND	ND	ND
MW-2 Top of Casing Elev. 35.55 ft	1/12/2009	4.37	31.18	ND	ND	ND	ND	ND	ND
	4/8/2009	5.05	30.50	ND	ND	ND	ND	ND	ND
	7/8/2009	5.91	29.64	ND	ND	ND	ND	ND	ND
	10/28/2009	4.65	30.90	ND	ND	ND	ND	ND	ND
	4/6/2010	5.24	30.31	ND	ND	ND	ND	ND	ND
	10/6/2010	5.94	29.61	ND	ND	ND	ND	ND	ND
	3/10/2011	4.32	31.23	ND	ND	ND	ND	ND	ND
	9/15/2011	5.99	29.56	ND	ND	ND	ND	ND	ND
	3/15/2012	4.32	31.23	ND	ND	ND	ND	ND	ND
	10/5/2012	6.05	29.50	120Y[c]	ND	ND	ND	ND	ND
	3/1/2013	5.20	30.35	ND	ND	ND	ND	ND	ND
	10/8/2013	5.88	29.67	ND	ND	ND	1.8	ND	ND
	3/17/2014	4.66	30.89	ND	**590**	ND	ND	ND	ND
	9/24/2014	4.84	30.71	ND	ND	ND	ND	ND	ND
	3/25/2015	5.53	30.02	ND	ND	ND	ND	ND	ND
	9/29/2015	6.08	29.47	ND	ND	ND	ND	ND	ND
	6/2/2016	5.85	29.70	ND	36.4 J	ND	1.8	ND	ND
	12/14/2016	5.23	30.32	ND	ND	ND	ND	ND	ND

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				TPH-D	TPH-O	Benzene	Toluene	Ethyl benzene	Total Xylene
MTCA Method A Groundwater Cleanup Level				500	500	5	1,000	700	1,000
MW-3 Top of Casing Elev. 34.75 ft	1/12/2009	2.99	31.76	ND	ND	ND	ND	ND	ND
	4/8/2009	3.41	31.34	ND	ND	ND	ND	ND	ND
	7/8/2009	4.37	30.38	ND	ND	ND	ND	ND	ND
	10/28/2009	3.26	31.49	ND	ND	ND	ND	ND	ND
	4/6/2010	3.56	31.19	ND	ND	ND	ND	ND	ND
	10/6/2010	4.25	30.50	ND	ND	ND	ND	ND	ND
	3/10/2011	2.58	32.17	ND	ND	ND	ND	ND	ND
	9/15/2011	4.28	30.47	ND	ND	ND	ND	ND	ND
	3/15/2012	2.49	32.26	ND	ND	ND	ND	ND	ND
	10/5/2012	3.84	30.91	ND	ND	ND	ND	ND	ND
	3/4/2013	3.34	31.41	ND	ND	ND	ND	ND	ND
	10/8/2013	4.00	30.75	ND	ND	ND	ND	ND	ND
	3/17/2014	2.58	32.17	ND	ND	ND	ND	ND	ND
	9/24/2014	3.23	31.52	ND	ND	ND	ND	ND	ND
	3/25/2015	3.60	31.15	ND	ND	ND	ND	ND	ND
	9/29/2015	4.29	30.46	ND	ND	ND	ND	ND	ND
	6/2/2016	3.98	30.77	ND	ND	ND	ND	ND	ND
	12/14/2016	3.20	31.55	ND	ND	ND	ND	ND	ND
MW-4 Top of Casing Elev. 35.26 ft	1/12/2009	1.56	33.70	ND	ND	ND	ND	ND	ND
	4/8/2009	1.63	33.63	ND	ND	ND	ND	ND	ND
	7/8/2009	2.12	33.14	ND	ND	ND	ND	ND	ND
	10/28/2009	1.79	33.47	ND	ND	ND	ND	ND	ND
	4/6/2010	2.89	32.37	ND	ND	ND	ND	ND	ND
	10/6/2010	1.90	33.36	ND	ND	ND	ND	ND	ND
	3/10/2011	1.23	34.03	ND	ND	ND	ND	ND	ND
	9/15/2011	2.12	33.14	ND	ND	ND	ND	ND	ND
	3/15/2012	1.29	33.97	ND	ND	ND	ND	ND	ND
	10/5/2012	1.75	33.51	ND	ND	ND	ND	ND	ND
	3/4/2013	1.78	33.48	ND	ND	ND	ND	ND	ND
	10/9/2013	1.93	33.33	ND	ND	ND	ND	ND	ND
	3/17/2014	1.15	34.11	ND	**760**	ND	ND	ND	ND
	9/24/2014	1.84	33.42	ND	ND	ND	ND	ND	ND
	3/25/2015	1.70	33.56	ND	ND	ND	ND	ND	ND
	9/29/2015	2.20	33.06	ND	ND	ND	ND	ND	ND
	6/2/2016	1.98	33.28	ND	36.0 J	ND	ND	ND	ND
	12/14/2016	1.61	33.65	ND	ND	ND	ND	ND	ND

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Monitoring Well Number	Date	Depth to Water (feet)[a]	Groundwater Elevation (feet)	Concentration (µg/L)					
				TPH-D	TPH-O	Benzene	Toluene	Ethyl benzene	Total Xylene
MTCA Method A Groundwater Cleanup Level				500	500	5	1,000	700	1,000
MW-5 Top of Casing Elev. 38.23 ft	1/12/2009	4.22	34.01	ND	ND	ND	ND	ND	ND
	4/8/2009	4.39	33.84	ND	ND	ND	ND	ND	ND
	7/8/2009	4.98	33.25	ND	ND	ND	ND	ND	ND
	10/28/2009	4.28	33.95	ND	ND	ND	ND	ND	ND
	4/6/2010	5.62	32.61	ND	ND	ND	ND	ND	ND
	10/6/2010	4.50	33.73	ND	ND	ND	ND	ND	ND
	3/11/2011	4.19	34.04	ND	ND	ND	ND	ND	ND
	9/15/2011	4.99	33.24	ND	ND	ND	ND	ND	ND
	3/15/2012	4.19	34.04	ND	ND	ND	ND	ND	ND
	10/5/2012	5.01	33.22	390Y[c]	420Y[c]	ND	ND	ND	ND
	3/4/2013	4.41	33.82	ND	ND	ND	ND	ND	ND
	10/9/2013	4.68	33.55	ND	ND	ND	ND	ND	ND
	3/18/2014	4.22	34.01	ND	470	ND	ND	ND	ND
	9/25/2014	5.01	33.22	ND	ND	ND	ND	ND	ND
	3/25/2015	4.62	33.61	ND	ND	ND	ND	ND	ND
	9/28/2015	4.68	33.55	ND	ND	ND	ND	ND	ND
	6/3/2016	4.98	33.25	ND	36.2 J	ND	ND	ND	ND
	Duplicate			74.3 J	45.3 J	ND	ND	ND	ND
	12/14/2016	NM, Well Dry	N/A	Sample not taken, Well dry					
MW-6 Top of Casing Elev. 36.70 ft	1/12/2009	4.42	32.28	ND	ND	ND	ND	ND	ND
	4/8/2009	4.38	32.32	ND	ND	ND	ND	ND	ND
	7/8/2009	4.70	32.00	ND	ND	ND	ND	ND	ND
	10/28/2009	4.18	32.52	ND	ND	ND	ND	ND	ND
	4/6/2010	3.95	32.75	ND	ND	ND	ND	ND	ND
	10/6/2010	4.31	32.39	ND	ND	ND	ND	ND	ND
	3/10/2011	3.57	33.13	ND	ND	ND	ND	ND	ND
	9/15/2011	4.73	31.97	ND	ND	ND	ND	ND	ND
	3/15/2012	3.40	33.30	ND	ND	ND	ND	ND	ND
	10/5/2012	4.73	31.97	ND	ND	ND	ND	ND	ND
	3/4/2013	3.68	33.02	ND	ND	ND	ND	ND	ND
	10/9/2013	4.01	32.69	ND	ND	ND	ND	ND	ND
	3/18/2014	3.52	33.18	ND	ND	ND	ND	ND	ND
	9/25/2014	4.68	32.02	ND	ND	ND	ND	ND	ND
	3/25/2015	3.79	32.91	ND	ND	ND	ND	ND	ND
	9/28/2015	4.36	32.34	ND	ND	ND	ND	ND	ND
	6/3/2016	4.05	32.65	ND	ND	ND	ND	ND	ND
	12/15/2016	3.76	32.94	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Elevation and Analytical Summary
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Groundwater Elevation (feet)	Concentration (µg/L)					
				TPH-D	TPH-O	Benzene	Toluene	Ethyl benzene	Total Xylene
MTCA Method A Groundwater Cleanup Level				**500**	**500**	**5**	**1,000**	**700**	**1,000**
MW-7 Top of Casing Elev. 35.80 ft	1/12/2009	2.22	33.58	ND	ND	ND	ND	ND	ND
	4/8/2009	2.32	33.48	ND	ND	ND	ND	ND	ND
	7/8/2009	3.16	32.64	ND	ND	ND	ND	ND	ND
	10/28/2009	2.48	33.32	ND	ND	ND	ND	ND	ND
	4/6/2010	2.82	32.98	ND	ND	ND	ND	ND	ND
	10/6/2010	3.16	32.64	ND	ND	ND	ND	ND	ND
	3/11/2011	1.71	34.09	ND	ND	ND	ND	ND	ND
	9/15/2011	3.38	32.42	ND	ND	ND	ND	ND	ND
	3/15/2012	1.38	34.42	ND	ND	ND	ND	ND	ND
	10/5/2012	3.58	32.22	ND	ND	ND	ND	ND	ND
	3/4/2013	2.74	33.06	ND	ND	ND	ND	ND	ND
	10/9/2013	3.25	32.55	ND	ND	ND	ND	ND	ND
	3/18/2014	1.96	33.84	ND	490	ND	ND	ND	ND
	9/24/2014	3.53	32.27	ND	ND	ND	ND	ND	ND
	3/25/2015	2.98	32.82	ND	ND	ND	ND	ND	ND
	9/28/2015	3.62	32.18	ND	ND	ND	ND	ND	ND
	6/3/2016	3.33	32.47	ND	ND	ND	ND	ND	ND
	12/15/2016	2.58	33.22	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Elevation and Analytical Summary
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Groundwater Elevation (feet)	Concentration (µg/L)					
				TPH-D	TPH-O	Benzene	Toluene	Ethyl benzene	Total Xylene
MTCA Method A Groundwater Cleanup Level				**500**	**500**	**5**	**1,000**	**700**	**1,000**
MW-8[b] Top of Casing Elev. 38.53 ft	1/12/2009	4.69	33.84	**1,030**	ND	**86.3**	11.7	125	**1,000**
	4/8/2009	4.88	33.65	**2,120**	ND	**18.4**	1.2	54.6	245
	7/8/2009	5.85	32.68	**2,290**	ND	**12**	ND	14	59
	10/28/2009	4.78	33.75	**1,700**	ND	**41**	1.6	61	157
	4/6/2010	5.24	33.29	**2,700**	ND	**34**	1.2	47	139
	10/6/2010	5.26	33.27	**2,100**	ND	3.7	ND	ND	ND
	3/11/2011	4.65	33.88	**1,500**	ND	**18**	ND	43	129
	9/15/2011	5.89	32.64	**1,600**	ND	ND	21	ND	ND
	3/15/2012	4.61	33.92	**2,900Y**	ND	**11**	ND	11	51.3
	10/5/2012	7.39	31.14	**2,100Y**	**570Y**[c]	ND	ND	ND	5
	3/1/2013	4.93	33.60	**1,800Y**	ND	1.1	ND	7	30
	10/9/2013	5.27	33.26	**2,200**	ND	ND	ND	1.1	ND
	3/18/2014	4.62	33.91	**2,900**	**1300**	ND	ND	5.3	3.1
	9/25/2014	5.98	32.55	**970**	ND	ND	ND	ND	ND
	3/25/2015	5.27	33.26	**3,500**	ND	ND	ND	1.4	ND
	9/28/2015	5.48	33.05	**2,000**	ND	ND	ND	ND	ND
	6/3/2016	5.76	32.77	**1,340**	194	ND	ND	ND	ND
	12/15/2016	5.16	33.37	**2,600**	ND	ND	ND	ND	ND
	Duplicate			**3,200**	ND	ND	ND	ND	ND

Note:

All results are in micrograms per liter (µg/L).

SPH = Separate phase hydrocarbon.

TPH-D = total petroleum hydrocarbons - diesel range.

TPH-O = total petroleum hydrocarbons - oil range.
ND = not detected at concentrations exceeding the laboratory method reporting limit.

Bold, shaded values indicate concentrations exceed MTCA Method A GCL.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Y The chromatographic response resembles a typical fuel pattern.

— = not recorded

a Because water levels were collected before groundwater sampling, levels in table may vary slightly from those on field

b Monitoring well was installed January 5, 2009.

c Results likely due to biological interference as a results of silica gel cleanup not being performed.

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-1	10/02/2015	NM	ND
	10/15/2015	NM	ND
	11/04/2015	NM	ND
	11/19/2015	NM	ND
	11/25/2015	NM	ND
	12/16/2015	NM	ND
	12/28/2015	NM	ND
	01/12/2016	NM	ND
	01/19/2016	NM	ND
	01/27/2016	NM	ND
	05/20/2016	5.25	ND
	06/16/2016	NM	ND
	07/05/2016	NM	ND
	07/22/2016	NM	ND
	08/05/2016	NM	ND
	08/16/2016	NM	ND
	08/30/2016	NM	ND
	09/23/2016	NM	ND
	10/06/2016	NM	ND
	10/24/2016	NM	ND
	11/11/2016	NM	ND
	11/30/2016	NM	ND
	12/15/2016	NM	ND
	12/26/2016	NM	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-2	10/02/2015	5.21	ND
	10/15/2015	5.22	ND
	11/04/2015	5.21	ND
	11/19/2015	4.12	ND
	11/25/2015	4.97	ND
	12/16/2015	3.88	ND
	12/28/2015	3.92	ND
	01/12/2016	4.63	ND
	01/19/2016	NM	ND
	01/27/2016	3.76	ND
	05/20/2016	5.14	ND
	06/16/2016	4.00	ND
	07/05/2016	4.05	ND
	07/22/2016	5.21	ND
	08/05/2016	5.22	ND
	08/16/2016	5.24	ND
	08/30/2016	5.21	ND
	09/23/2016	5.18	ND
	10/06/2016	5.19	ND
	10/24/2016	4.29	ND
	11/11/2016	4.88	ND
	11/30/2016	3.07	ND
	12/15/2016	4.43	ND
	12/26/2016	4.63	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-3	10/02/2015	4.80	ND
	10/15/2015	4.80	ND
	11/04/2015	4.78	ND
	11/19/2015	3.71	ND
	11/25/2015	4.60	ND
	12/16/2015	3.47	ND
	12/28/2015	3.50	ND
	01/12/2016	4.26	ND
	01/19/2016	3.76	ND
	01/27/2016	3.38	ND
	05/20/2016	4.70	ND
	06/16/2016	NM	ND
	07/05/2016	3.63	ND
	07/22/2016	4.79	ND
	08/05/2016	4.80	ND
	08/16/2016	4.83	ND
	08/30/2016	4.80	ND
	09/23/2016	4.75	ND
	10/06/2016	4.78	ND
	10/24/2016	3.88	ND
	11/11/2016	4.46	ND
	11/30/2016	2.60	ND
	12/15/2016	3.99	ND
	12/26/2016	4.24	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-4	10/02/2015	4.66	ND
	10/15/2015	4.69	ND
	11/04/2015	4.64	ND
	11/19/2015	3.57	ND
	11/25/2015	4.30	ND
	12/16/2015	3.32	ND
	12/28/2015	3.35	ND
	01/12/2016	3.98	ND
	01/19/2016	3.51	ND
	01/27/2016	3.21	ND
	05/20/2016	NM	ND
	06/16/2016	3.51	ND
	07/05/2016	3.55	ND
	07/22/2016	4.68	ND
	08/05/2016	4.69	ND
	08/16/2016	4.70	ND
	08/30/2016	4.69	ND
	09/23/2016	4.62	ND
	10/06/2016	4.68	ND
	10/24/2016	3.73	ND
	11/11/2016	4.28	ND
	11/30/2016	2.55	ND
	12/15/2016	NM	ND
	12/26/2016	4.08	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-5	10/02/2015	4.53/4.50	0.03
	10/15/2015	5.78	ND
	11/04/2015	4.39	ND
	11/19/2015	3.51	ND
	11/25/2015	3.87	ND
	12/16/2015	3.28	ND
	12/28/2015	3.31	ND
	01/12/2016	3.65	ND
	01/19/2016	3.38	ND
	01/27/2016	3.18	ND
	05/20/2016	4.21/4.20	0.01
	06/16/2016	3.55	ND
	07/05/2016	3.60/3.59	0.01
	07/22/2016	5.78	ND
	08/05/2016	5.95	ND
	08/16/2016	5.94	ND
	08/30/2016	5.94	ND
	09/23/2016	4.34	ND
	10/06/2016	5.01	ND
	10/24/2016	3.66	ND
	11/11/2016	3.96	ND
	11/30/2016	2.56	ND
	12/15/2016	3.76	ND
	12/26/2016	3.92	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-6	10/02/2015	5.05	ND
	10/15/2015	4.97	ND
	11/04/2015	4.89	ND
	11/19/2015	4.21	ND
	11/25/2015	4.43	ND
	12/16/2015	3.99	ND
	12/28/2015	3.99	ND
	01/12/2016	4.23	ND
	01/19/2016	4.03	ND
	01/27/2016	3.85	ND
	05/20/2016	4.50	ND
	06/16/2016	4.24	ND
	07/05/2016	4.28	ND
	07/22/2016	4.65	ND
	08/05/2016	5.02	ND
	08/16/2016	5.03	ND
	08/30/2016	5.03	ND
	09/23/2016	4.97	ND
	10/06/2016	5.02	ND
	10/24/2016	4.34	ND
	11/11/2016	4.45	ND
	11/30/2016	3.32	ND
	12/15/2016	4.33	ND
	12/26/2016	4.33	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-7	10/02/2015	NM	ND
	10/15/2015	NM	ND
	11/04/2015	NM	ND
	11/19/2015	NM	ND
	11/25/2015	NM	ND
	12/16/2015	NM	ND
	12/28/2015	NM	ND
	01/12/2016	NM	ND
	01/19/2016	NM	ND
	01/27/2016	NM	ND
	05/20/2016	4.45	ND
	06/16/2016	NM	ND
	07/05/2016	NM	ND
	07/22/2016	NM	ND
	08/05/2016	NM	ND
	08/16/2016	NM	ND
	08/30/2016	NM	ND
	09/23/2016	NM	ND
	10/06/2016	NM	ND
	10/24/2016	NM	ND
	11/11/2016	NM	ND
	11/30/2016	NM	ND
	12/15/2016	NM	ND
	12/26/2016	NM	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-8	10/02/2015	NM	ND
	10/15/2015	NM	ND
	11/04/2015	NM	ND
	11/19/2015	NM	ND
	11/25/2015	NM	ND
	12/16/2015	NM	ND
	12/28/2015	NM	ND
	01/12/2016	NM	ND
	01/19/2016	NM	ND
	01/27/2016	NM	ND
	05/20/2016	4.88	ND
	06/16/2016	NM	ND
	07/05/2016	NM	ND
	07/22/2016	NM	ND
	08/05/2016	NM	ND
	08/16/2016	NM	ND
	08/30/2016	NM	ND
	09/23/2016	NM	ND
	10/06/2016	NM	ND
	10/24/2016	NM	ND
	11/11/2016	NM	ND
	11/30/2016	NM	ND
	12/15/2016	NM	ND
	12/26/2016	NM	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-9	10/02/2015	NM	ND
	10/15/2015	NM	ND
	11/04/2015	NM	ND
	11/19/2015	NM	ND
	11/25/2015	NM	ND
	12/16/2015	NM	ND
	12/28/2015	NM	ND
	01/12/2016	NM	ND
	01/19/2016	NM	ND
	01/27/2016	NM	ND
	05/20/2016	4.79	ND
	06/16/2016	NM	ND
	07/05/2016	NM	ND
	07/22/2016	NM	ND
	08/05/2016	NM	ND
	08/16/2016	NM	ND
	08/30/2016	NM	ND
	09/23/2016	NM	ND
	10/06/2016	NM	ND
	10/24/2016	NM	ND
	11/11/2016	NM	ND
	11/30/2016	NM	ND
	12/15/2016	NM	ND
	12/26/2016	NM	ND

Table 2
Groundwater Extraction Well Gauging Data
Fourth Quarter 2015 - Fourth Quarter 2016
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well ID	Date	Depth to Water/SPH	SPH Thickness
EW-10	10/02/2015	2.58	ND
	10/15/2015	2.33	ND
	11/04/2015	2.18	ND
	11/19/2015	2.68	ND
	11/25/2015	2.82	ND
	12/16/2015	2.69	ND
	12/28/2015	2.67	ND
	01/12/2016	2.79	ND
	01/19/2016	NM	ND
	01/27/2016	2.58	ND
	05/20/2016	2.77	ND
	06/16/2016	2.84	ND
	07/05/2016	2.91	ND
	07/22/2016	2.91	ND
	08/05/2016	2.54	ND
	08/16/2016	2.58	ND
	08/30/2016	2.63	ND
	09/23/2016	2.45	ND
	10/06/2016	2.53	ND
	10/24/2016	2.73	ND
	11/11/2016	2.79	ND
	11/30/2016	2.62	ND
	12/15/2016	2.72	ND
	12/26/2016	2.63	ND

Notes:
ND= No product detected.
NM=Not Measured

Table 3
Groundwater Extraction Summary
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

	1st Quarter 2009			2nd Quarter 2009		
Month	January	February	March	April	May	June
Gallons Removed	28,800	7,500	5,000	10,000	20,000	0
	3rd Quarter 2009			4th Quarter 2009		
Month	July	August	September	October	November	December
Gallons Removed	0	0	0	0	14,500	19,500
	1st Quarter 2010			2nd Quarter 2010		
Month	January	February	March	April	May	June
Gallons Removed	15,000	0	2,648	1,338		
	3rd Quarter 2010			4th Quarter 2010		
Month	July	August	September	October	November	December
Gallons Removed	0	0	0	0	0	39,670
	1st Quarter 2011			2nd Quarter 2011		
Month	January	February	March	April	May	June
Gallons Removed	24,305	11,144	37,260	5,240	4,500	5,250
	3rd Quarter 2011			4th Quarter 2011		
Month	July	August	September	October	November	December
Gallons Removed	4,800			5,000	42,795	56,735
	1st Quarter 2012			2nd Quarter 2012		
Month	January	February	March	April	May	June
Gallons Removed	15,010	27,365	20,780	9,335	16,301	0
	3rd Quarter 2012			4th Quarter 2012		
Month	July	August	September	October	November	December
Gallons Removed	0	0	0	0	0	0

Table 3
Groundwater Extraction Summary
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

	1st Quarter 2013			2nd Quarter 2013		
Month	January	February	March	April	May	June
Gallons Removed	0	0	0	0	0	0
	3rd Quarter 2013			4th Quarter 2013		
Month	July	August	September	October	November	December
Gallons Removed	19,779	123,911	136,342	112,177	113,062	54,109
	1st Quarter 2014			2nd Quarter 2014		
Month	January	February	March	April	May	June
Gallons Removed	158,509	159,295	266,779	211,312	230,586	305,257
	3rd Quarter 2014			4th Quarter 2014		
Month	July	August	September	October	November	December
Gallons Removed	275,447	168,912	102,934	187,321	339,221	507,092
	1st Quarter 2015			2nd Quarter 2015		
Month	January	February	March	April	May	June
Gallons Removed	461,010	243,043	159,111	223,011	211,858	169,631
	3rd Quarter 2015			4th Quarter 2015		
Month	July	August	September	October	November	December
Gallons Removed	75,145	42,103	54,150	91,342	246,655	325,361
	1st Quarter 2016			2nd Quarter 2016		
Month	January	February	March	April	May	June
Gallons Removed	295,771	341,796	328,022	327,287	260,155	162,928
	3rd Quarter 2016			4th Quarter 2016		
Month	July	August	September	October	November	December
Gallons Removed	220,210	66,732	32,634	187,480	201,892	250,157

Weir tank recovery system delivered March 19, 2010
Pneumatic recovery system started up July 29, 2013

Table 4
Volume of SPH Removed from Observation Wells & Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA
Fourth Quarter 2015 - Fourth Quarter 2016

Well	Date	Estimated SPH Pumped (mL)	Total Amount of Water/SPH Removed (mL)
B19	10/2/2015	50	300
	10/15/2015	100	1,125
	11/25/2015	25	300
	12/16/2015	25	750
	12/28/2015	30	480
	1/12/2016	50	1,050
	1/27/2016	15	640
	5/20/2016	140	565
	6/16/2016	50	350
	7/5/2016	40	240
	7/22/2016	40	250
	8/5/2016	30	90
	8/30/2016	25	225
	9/23/2016	25	190
	10/6/2016	30	120
	11/11/2016	25	500
	12/15/2016	50	310

Table 4
Volume of SPH Removed from Observation Wells & Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA
Fourth Quarter 2015 - Fourth Quarter 2016

B20	10/2/2015	100	125
	10/15/2015	50	625
	11/4/2015	110	1,400
	11/19/2015	50	900
	11/25/2015	50	240
	12/16/2015	50	925
	12/28/2015	30	1,430
	1/27/2016	85	910
	5/20/2016	40	140
	6/16/2016	70	720
	7/5/2016	35	170
	7/22/2016	40	290
	8/5/2015	50	150
	8/30/2016	50	150
	9/23/2016	25	500
	10/6/2016	30	90
	11/11/2016	50	825
	11/30/2016	40	220
	12/15/2016	40	500
	12/26/2016	80	1180
OW-2	10/15/2015	200	400
	11/4/2015	240	1,250
	11/19/2015	100	600
	11/25/2015	250	860
	12/28/2015	30	780
	1/12/2016	200	200
	10/24/2016	90	1090
	11/11/2016	250	975
	11/30/2016	20	630
	12/15/2016	110	850
B25	10/2/2015	10	60
	5/20/2016	10	110
	8/30/2016	15	615

Table 4
Volume of SPH Removed from Observation Wells & Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA
Fourth Quarter 2015 - Fourth Quarter 2016

B26	10/2/2015	75	250
	10/15/2015	50	475
	12/28/2015	10	310
	1/12/2016	25	975
	1/27/2016	15	415
	5/20/2016	170	470
	6/16/2016	30	80
	7/5/2016	25	190
	7/22/2016	10	160
	8/5/2015	10	450
	8/30/2015	15	165
	9/23/2016	25	185
	10/6/2016	30	190
OW3	7/22/2016	10	210
Total mL		**3,850**	**31,920**
Total gallons		**1.02**	**8.43**

Figures



BOTHELL

WASHINGTON

APPROX. SCALE

0 1000 2000 FEET

N

SOURCE: Aerial Image Acquired from Google Map 2011.

CB&I Environmental & Infrastructure, Inc.
12005 Ford Rd , Suite 600
Dallas, TX 75234
(972) 773-8400 Office
(972) 772-8401 Fax

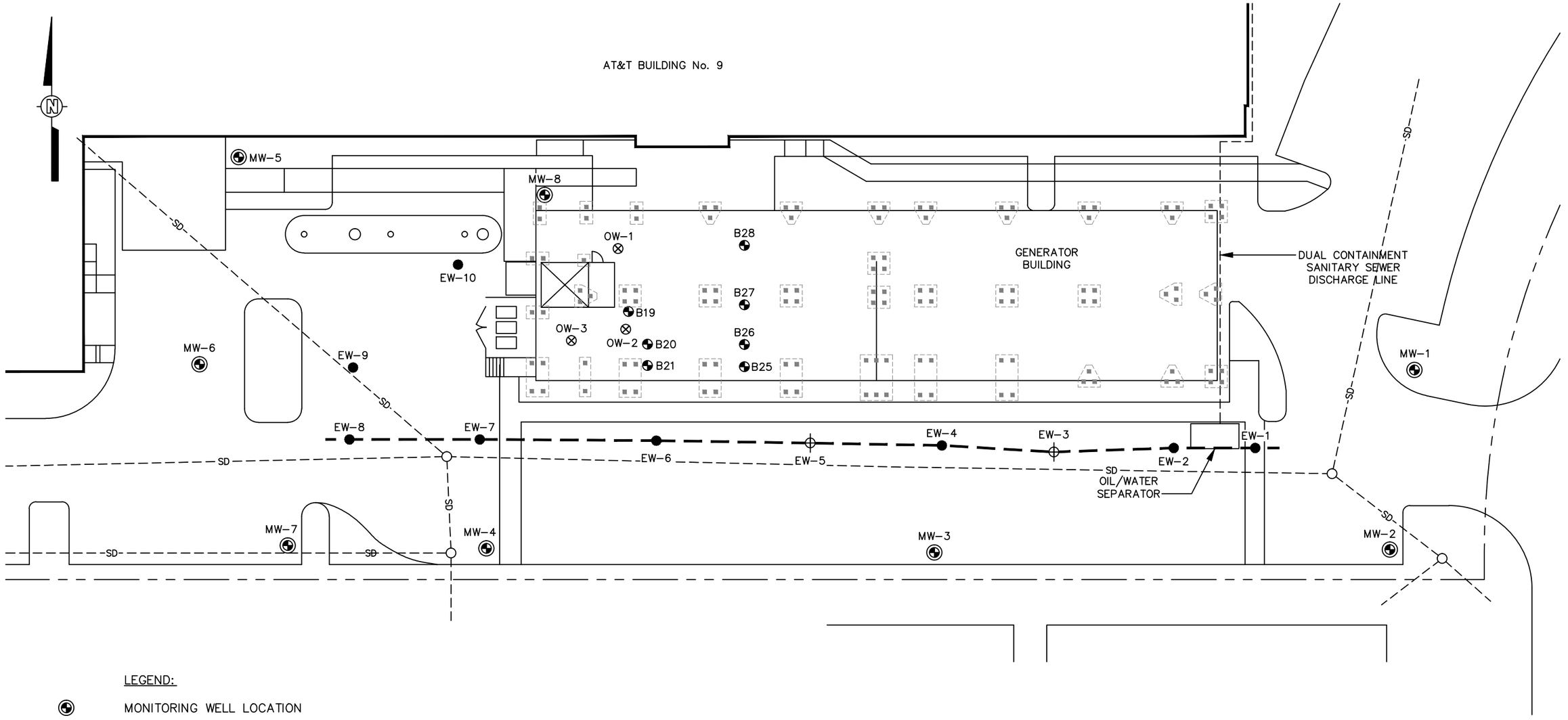
FIGURE 1

SITE LOCATION MAP

AT&T DATA CENTER
20307 NORTH CREEK PARKWAY
BOTHELL, WASHINGTON

OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
BOTHELL	TWentz	1/2014	TW	1/14	TCO	1/14	BT-146714-A1

XREF Files: IMAGE Files: Bothell_site.jpg
File: B:\Project\draft\AT&T\2013\Annual Report 2013\Figures\BT-146714-A1.dwg Layout: FIGURE 1 User: tyson.wentz Jan 13, 2014 - 9:36am



LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- IMPERMEABLE LINER
- SD EXISTING STORM DRAIN

SCALE (FEET)

0 30 60

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DALLAS, TEXAS 75234
(972) 773-8400 OFFICE
(972) 773-8401 FAX

OFFICE:	DATE:	ACAD FILE:
DALLAS	2-22-17	5717B1

GROUNDWATER MONITORING, EXTRACTION AND OBSERVATION WELL LOCATION MAP

CLIENT:	PM:
AT&T	LG

LOCATION: 20307 NORTH CREEK PARKWAY BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
LG	SDJF	631215717	2

AT&T BUILDING No. 9

MW-5 (33.25)
MW-8 (32.77)
MW-6 (32.65)
MW-4 (33.28)*
MW-7 (32.47)
MW-3 (30.77)
MW-2 (29.70)
MW-1 (31.84)

EW-10
EW-9
EW-8
EW-7
EW-6
EW-5
EW-4
EW-3
EW-2
EW-1

OW-1
OW-2
OW-3
B19
B20
B21
B25
B26
B27
B28

GENERATOR BUILDING

DUAL CONTAINMENT SANITARY SEWER DISCHARGE LINE

OIL/WATER SEPARATOR

SD

33.50
33.00
32.50
32.00
31.50
31.00
30.00
29.50

LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- IMPERMEABLE LINER
- SD EXISTING STORM DRAIN

(32.47) GROUNDWATER ELEVATION (FEET)

32.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

GROUNDWATER FLOW DIRECTION

* ANOMALOUS DATA

CONTOUR INTERVAL = 0.50 FEET

SCALE (FEET)
0 30 60

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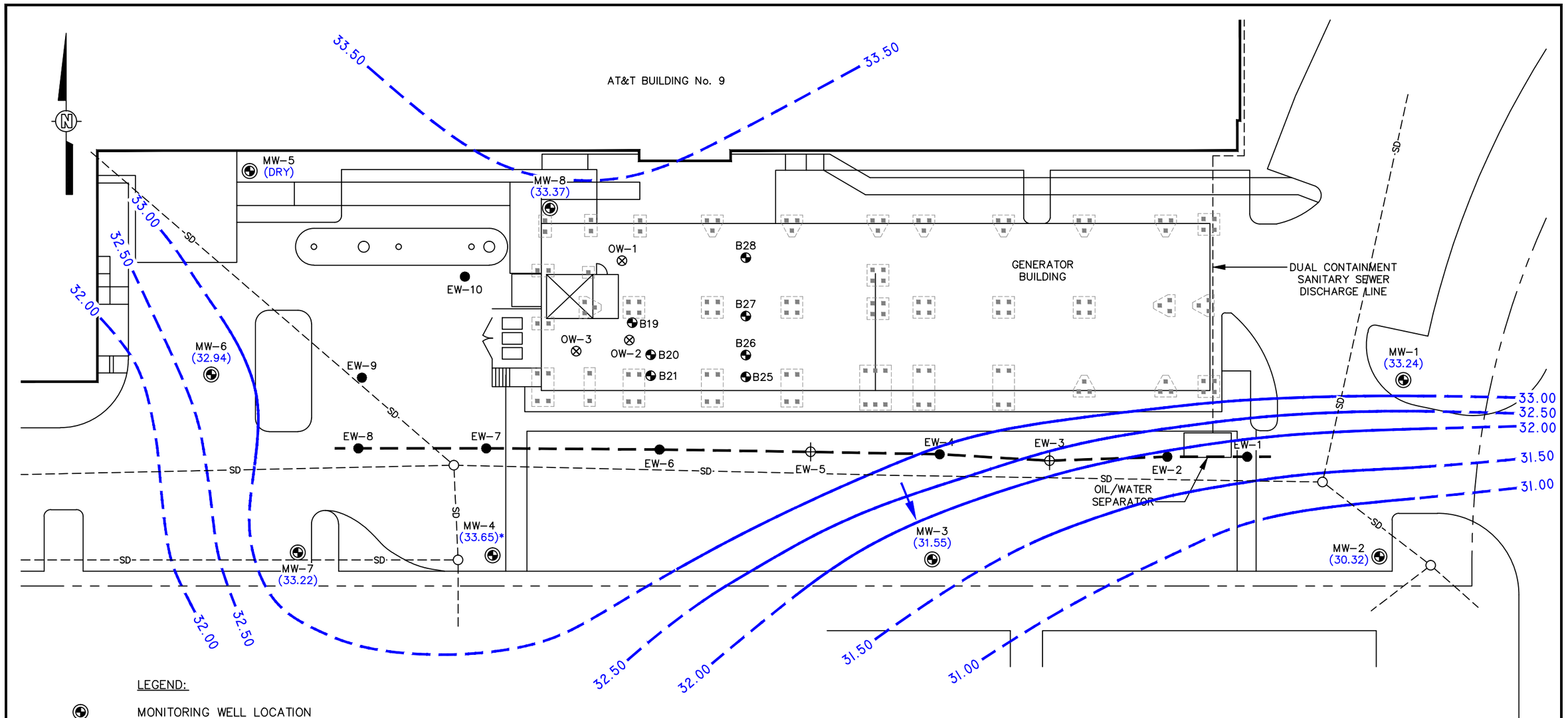
OFFICE:	DATE:	ACAD FILE:
DALLAS	2-22-17	5717B2

GROUNDWATER ELEVATION CONTOUR MAP JUNE 2, 2016

CLIENT:	PM:
AT&T	LG

LOCATION: 20307 NORTH CREEK PARKWAY BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
LG	SDJF	631215717	3



LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- IMPERMEABLE LINER
- SD — EXISTING STORM DRAIN

(31.55) GROUNDWATER ELEVATION (FEET)

32.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

GROUNDWATER FLOW DIRECTION

* ANOMALOUS DATA

CONTOUR INTERVAL = 0.50 FEET

SCALE (FEET)

0 30 60

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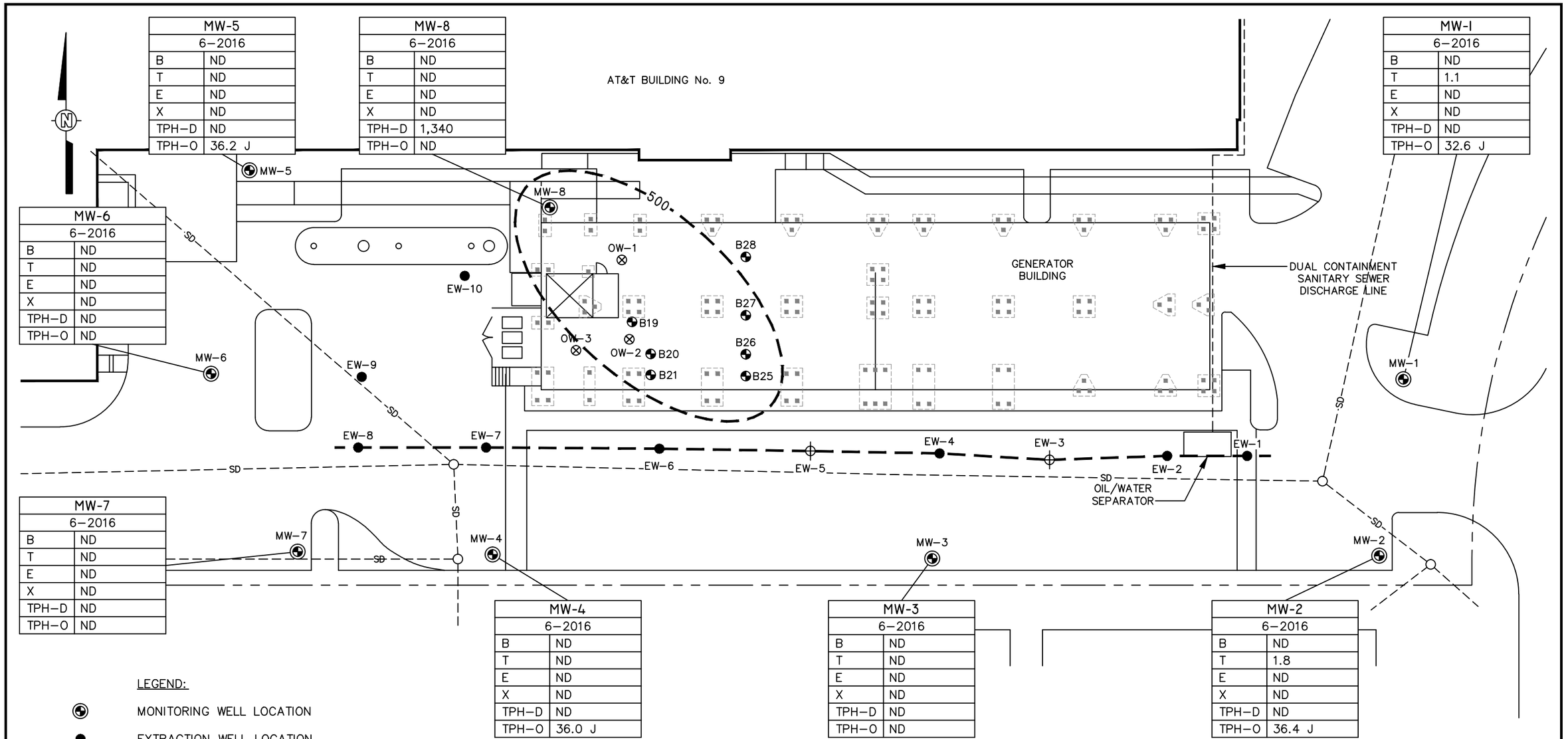
OFFICE:	DATE:	ACAD FILE:
DALLAS	2-22-17	5717B3

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 13, 2016

CLIENT:	PM:
AT&T	LG

LOCATION: 20307 NORTH CREEK PARKWAY BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
LG	SDJF	631215717	4



MW-5	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	ND
TPH-O	36.2 J

MW-8	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	1,340
TPH-O	ND

MW-I	
6-2016	
B	ND
T	1.1
E	ND
X	ND
TPH-D	ND
TPH-O	32.6 J

MW-6	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	ND
TPH-O	ND

MW-7	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	ND
TPH-O	ND

MW-4	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	ND
TPH-O	36.0 J

MW-3	
6-2016	
B	ND
T	ND
E	ND
X	ND
TPH-D	ND
TPH-O	ND

MW-2	
6-2016	
B	ND
T	1.8
E	ND
X	ND
TPH-D	ND
TPH-O	36.4 J

LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- IMPERMEABLE LINER
- SD EXISTING STORM DRAIN

SCALE (FEET)

0 30 60

B	BENZENE CONCENTRATION
T	TOLUENE CONCENTRATION
E	ETHYLBENZENE CONCENTRATION
X	TOTAL XYLENES CONCENTRATION
TPH-D	TOTAL PETROLEUM HYDROCARBONS CONCENTRATION
TPH-O	TOTAL PETROLEUM HYDROCARBONS CONCENTRATION
500	MTCA METHOD A GROUNDWATER CLEANUP LEVEL

J	DETECTED BUT BELOW THE REPORTING LIMIT; THEREFORE, RESULT IS AN ESTIMATED CONCENTRATION
ND	NOT DETECTED

ALL CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

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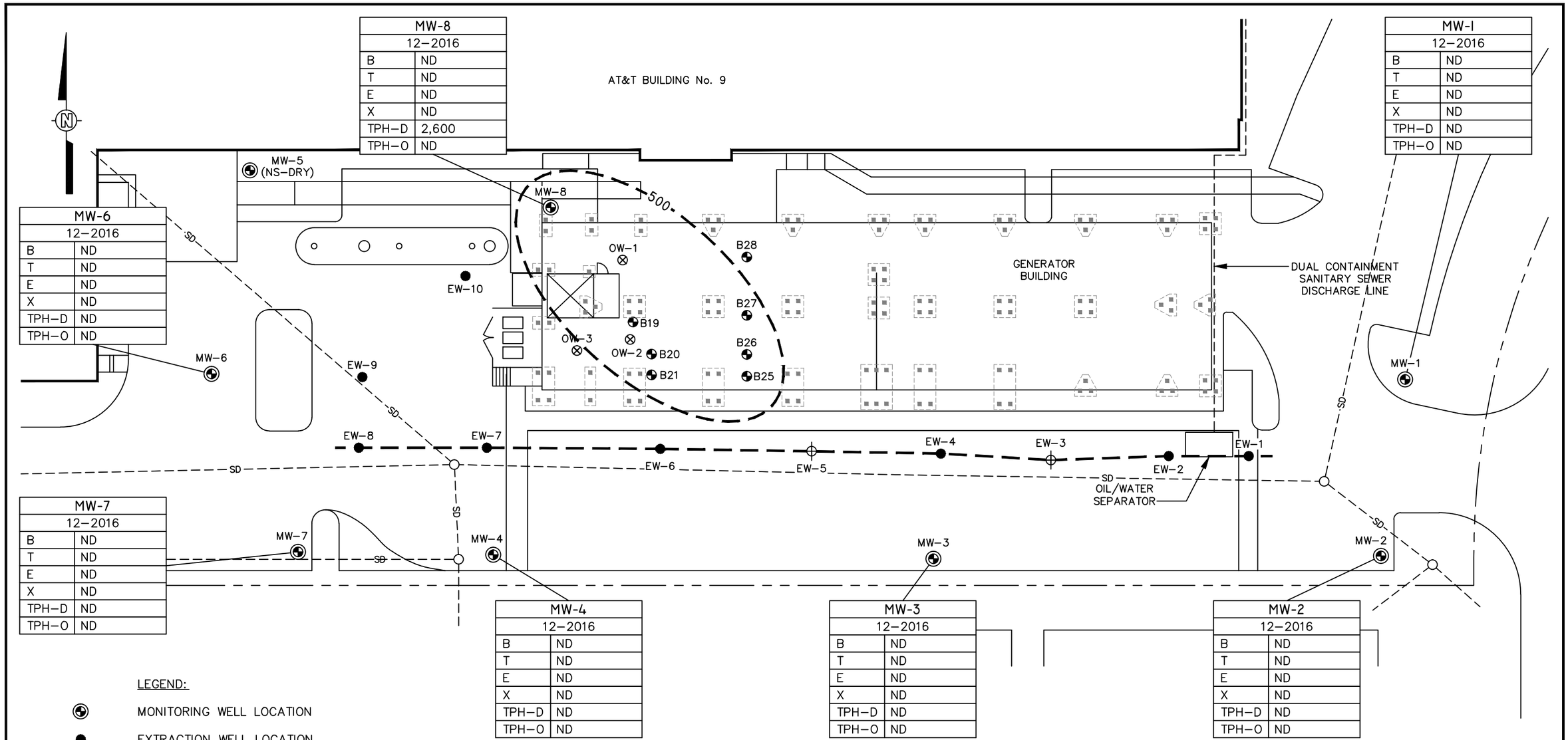
OFFICE:	DATE:	ACAD FILE:
DALLAS	2-22-17	5717B4

GROUNDWATER CONTAMINANT CONCENTRATION MAP
SAMPLE DATE: JUNE 2016

CLIENT:	PM:
AT&T	LG

LOCATION: 20307 NORTH CREEK PARKWAY, BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
LG	SDJF	631215717	5



MW-8	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	2,600
TPH–O	ND

MW-I	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

MW-6	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

MW-7	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

MW-4	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

MW-3	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

MW-2	
12–2016	
B	ND
T	ND
E	ND
X	ND
TPH–D	ND
TPH–O	ND

LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- IMPERMEABLE LINER
- SD EXISTING STORM DRAIN

SCALE (FEET)

0 30 60

B	BENZENE CONCENTRATION
T	TOLUENE CONCENTRATION
E	ETHYLBENZENE CONCENTRATION
X	TOTAL XYLENES CONCENTRATION
TPH–D	TOTAL PETROLEUM HYDROCARBONS CONCENTRATION
TPH–O	TOTAL PETROLEUM HYDROCARBONS CONCENTRATION
500	MTCA METHOD A GROUNDWATER CLEANUP LEVEL

J	DETECTED BUT BELOW THE REPORTING LIMIT; THEREFORE, RESULT IS AN ESTIMATED CONCENTRATION
ND	NOT DETECTED
NS	NOT SAMPLED

ALL CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

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DALLAS, TEXAS 75234
(972) 773-8400 OFFICE
(972) 773-8401 FAX

OFFICE:	DATE:	ACAD FILE:
DALLAS	2–22–17	5717B5

GROUNDWATER CONTAMINANT CONCENTRATION MAP SAMPLE DATE: DECEMBER 2016

CLIENT:	PM:
AT&T	LG

LOCATION: 20307 NORTH CREEK PARKWAY BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
LG	SDJF	631215717	6

Appendix A

June 2016 Sampling Event Laboratory Analytical Report

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

CB&I

AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

LEIGH GROVER

SGS Accutest Job Number: C46069

Sampling Dates: 06/02/16 - 06/03/16



Report to:

CB&I
12005 Ford Road Suite 600
Dallas, TX 75234
Leigh.Grover@cbi.com

ATTN: Leigh Grover

Total number of pages in report: **64**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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Sample Summary

CB&I

Job No: C46069

AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA
Project No: LEIGH GROVER

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46069-1	06/02/16	13:00	BK	06/04/16	AQ	Ground Water	MW1
C46069-1A	06/02/16	13:00	BK	06/04/16	AQ	Ground Water	MW1
C46069-2	06/02/16	14:35	BK	06/04/16	AQ	Ground Water	MW2
C46069-2A	06/02/16	14:35	BK	06/04/16	AQ	Ground Water	MW2
C46069-3	06/02/16	15:55	BK	06/04/16	AQ	Ground Water	MW3
C46069-3A	06/02/16	15:55	BK	06/04/16	AQ	Ground Water	MW3
C46069-4	06/02/16	17:15	BK	06/04/16	AQ	Ground Water	MW4
C46069-4A	06/02/16	17:15	BK	06/04/16	AQ	Ground Water	MW4
C46069-5	06/03/16	09:25	BK	06/04/16	AQ	Ground Water	MW7
C46069-5A	06/03/16	09:25	BK	06/04/16	AQ	Ground Water	MW7
C46069-6	06/03/16	10:30	BK	06/04/16	AQ	Ground Water	MW6
C46069-6A	06/03/16	10:30	BK	06/04/16	AQ	Ground Water	MW6
C46069-7	06/03/16	11:35	BK	06/04/16	AQ	Ground Water	MW5

Sample Summary
(continued)

CB&I

Job No: C46069

AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA
Project No: LEIGH GROVER

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C46069-7A	06/03/16	11:35	BK	06/04/16	AQ	Ground Water	MW5
C46069-8	06/03/16	11:50	BK	06/04/16	AQ	Ground Water	MW105
C46069-8A	06/03/16	11:50	BK	06/04/16	AQ	Ground Water	MW105
C46069-9	06/03/16	13:30	BK	06/04/16	AQ	Ground Water	MW8
C46069-9A	06/03/16	13:30	BK	06/04/16	AQ	Ground Water	MW8
C46069-10	06/03/16	14:24	BK	06/04/16	AQ	Ground Water	INFLUENT
C46069-10A	06/03/16	14:24	BK	06/04/16	AQ	Ground Water	INFLUENT
C46069-11	06/03/16	14:34	BK	06/04/16	AQ	Ground Water	EFFLUENT
C46069-11A	06/03/16	14:34	BK	06/04/16	AQ	Ground Water	EFFLUENT

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CB&I **Job No** C46069

Site: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA **Report Date** 6/20/2016 5:30:47 PM

11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected between 06/02/2016 and 06/03/2016 and were received at Accutest on 06/04/2016 properly preserved, at 4.1 Deg. C and intact. These Samples received an Accutest job number of C46069. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VV1381

- Sample(s) C45997-5MS, C45997-5MSD were used as the QC samples indicated.
- RPD(as) for BSD for Benzene, Ethylbenzene, Toluene, Xylene (total) exceeded laboratory acceptance limit; BS/BSD recoveries met acceptance criteria.

Matrix: AQ **Batch ID:** VV1382

- Sample(s) C46069-2MS, C46069-2MSD were used as the QC samples indicated.

Extractables by GC By Method NWTPH-DX W SGC

Matrix: AQ **Batch ID:** OP14458

- Batch # OP14458: NWTPH-Dx without Silica Gel Cleanup (per client request).
- Sample(s) C46069-3MS, C46069-4DUP, C46069-11DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for TPH (Diesel) are outside laboratory control limits for sample OP14458-DUP2. Probable cause due to matrix interference and/or sample nonhomogeneity.

Matrix: AQ **Batch ID:** OP14507

- Sample(s) C46069-3AMS, C46069-4ADUP, C46069-11ADUP were used as the QC samples indicated.
- RPD(s) for Duplicate for TPH (Diesel) are outside laboratory control limits for sample OP14507-DUP2. Probable cause due to matrix interference and/or sample nonhomogeneity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46069
Account: CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA
Collected: 06/02/16 thru 06/03/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46069-1	**MW1**					
Toluene		1.1	1.0	0.20	ug/l	SW846 8260B
TPH (Motor Oil) [a]		0.0804 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-1A	**MW1**					
TPH (Motor Oil)		0.0326 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-2	**MW2**					
Toluene		1.8	1.0	0.20	ug/l	SW846 8260B
TPH (Motor Oil) [a]		0.0708 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-2A	**MW2**					
TPH (Motor Oil)		0.0364 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-3	**MW3**					
No hits reported in this sample.						
C46069-3A	**MW3**					
No hits reported in this sample.						
C46069-4	**MW4**					
TPH (Motor Oil) [a]		0.0370 J	0.096	0.032	mg/l	NWTPH-DX W SGC
C46069-4A	**MW4**					
TPH (Motor Oil)		0.0360 J	0.096	0.032	mg/l	NWTPH-DX W SGC
C46069-5	**MW7**					
TPH (Motor Oil) [a]		0.0504 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-5A	**MW7**					
No hits reported in this sample.						
C46069-6	**MW6**					
No hits reported in this sample.						

Summary of Hits

Job Number: C46069
Account: CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA
Collected: 06/02/16 thru 06/03/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46069-6A	**MW6**					
No hits reported in this sample.						
C46069-7	**MW5**					
TPH (Motor Oil) [a]		0.0350 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-7A	**MW5**					
TPH (Motor Oil)		0.0362 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-8	**MW105**					
TPH (Motor Oil) [a]		0.0594 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-8A	**MW105**					
TPH (Diesel)		0.0743 J	0.095	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil)		0.0453 J	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-9	**MW8**					
TPH (Diesel) [a]		1.71	0.095	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil) [a]		0.376	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-9A	**MW8**					
TPH (Diesel)		1.34	0.095	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil)		0.194	0.095	0.032	mg/l	NWTPH-DX W SGC
C46069-10	**INFLUENT**					
Ethylbenzene		0.66 J	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		2.0	2.0	0.46	ug/l	SW846 8260B
TPH (Diesel) [a]		0.316	0.094	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil) [a]		0.119	0.094	0.032	mg/l	NWTPH-DX W SGC
C46069-10A	**INFLUENT**					
TPH (Diesel)		0.218	0.094	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil)		0.0579 J	0.094	0.032	mg/l	NWTPH-DX W SGC

Summary of Hits

Job Number: C46069
Account: CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA
Collected: 06/02/16 thru 06/03/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46069-11	**EFFLUENT**					
Benzene		1.6	1.0	0.20	ug/l	SW846 8260B
Toluene		0.23 J	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		0.78 J	2.0	0.46	ug/l	SW846 8260B
TPH (Diesel) [a]		0.884	0.094	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil) [a]		0.163	0.094	0.032	mg/l	NWTPH-DX W SGC
C46069-11A	**EFFLUENT**					
TPH (Diesel)		0.683	0.094	0.050	mg/l	NWTPH-DX W SGC
TPH (Motor Oil)		0.0698 J	0.094	0.032	mg/l	NWTPH-DX W SGC

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	C46069-1	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33578.D	1	06/09/16	KZ	n/a	n/a	VV1381
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	1.1	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	C46069-1	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4164.D	1	06/08/16	FL	06/06/16	OP14458	GBB149
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0804	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1		
Lab Sample ID:	C46069-1A	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333386.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0326	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	67%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	C46069-2	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33593.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	1.8	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	C46069-2	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4118.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0708	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	89%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2		
Lab Sample ID:	C46069-2A	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333388.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0364	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	85%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3		
Lab Sample ID:	C46069-3	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33594.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3		
Lab Sample ID:	C46069-3	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4119.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.096	0.050	mg/l	
	TPH (Motor Oil)	ND	0.096	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	89%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3		
Lab Sample ID:	C46069-3A	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333389.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.096	0.050	mg/l	
	TPH (Motor Oil)	ND	0.096	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	80%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	C46069-4	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33595.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	C46069-4	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4120.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.096	0.050	mg/l	
	TPH (Motor Oil)	0.0370	0.096	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	85%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4		
Lab Sample ID:	C46069-4A	**Date Sampled:**	06/02/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333390.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.096	0.050	mg/l	
	TPH (Motor Oil)	0.0360	0.096	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	79%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	C46069-5	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33596.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	C46069-5	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4121.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0504	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	83%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7		
Lab Sample ID:	C46069-5A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333391.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	ND	0.095	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	78%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	C46069-6	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33597.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	C46069-6	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4122.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	ND	0.095	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	81%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6		
Lab Sample ID:	C46069-6A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333392.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	ND	0.095	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	75%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5		
Lab Sample ID:	C46069-7	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33598.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5		
Lab Sample ID:	C46069-7	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4123.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0350	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	72%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5		
Lab Sample ID:	C46069-7A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333393.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0362	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	66%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW105		
Lab Sample ID:	C46069-8	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33599.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW105		
Lab Sample ID:	C46069-8	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4124.D	1	06/08/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.0594	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	89%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW105		
Lab Sample ID:	C46069-8A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333394.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.0743	0.095	0.050	mg/l	J
	TPH (Motor Oil)	0.0453	0.095	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	C46069-9	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33600.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	C46069-9	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4125.D	1	06/08/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	1.71	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.376	0.095	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	94%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8		
Lab Sample ID:	C46069-9A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333395.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	1.34	0.095	0.050	mg/l	
	TPH (Motor Oil)	0.194	0.095	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	88%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	C46069-10	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33601.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.66	1.0	0.20	ug/l	J
1330-20-7	Xylene (total)	2.0	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	C46069-10	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4126.D	1	06/08/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.316	0.094	0.050	mg/l	
	TPH (Motor Oil)	0.119	0.094	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	89%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	C46069-10A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333396.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.218	0.094	0.050	mg/l	
	TPH (Motor Oil)	0.0579	0.094	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	82%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	C46069-11	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33602.D	1	06/10/16	KZ	n/a	n/a	VV1382
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.6	1.0	0.20	ug/l	
108-88-3	Toluene	0.23	1.0	0.20	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	0.78	2.0	0.46	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	C46069-11	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BB4127.D	1	06/08/16	FL	06/06/16	OP14458	GBB147
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.884	0.094	0.050	mg/l	
	TPH (Motor Oil)	0.163	0.094	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	94%		37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	C46069-11A	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/04/16
Method:	NWTPH-DX W SGC SW846 3510C	**Percent Solids:**	n/a
Project:	AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH333397.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

Northwest TPH-Dx with Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	0.683	0.094	0.050	mg/l	
	TPH (Motor Oil)	0.0698	0.094	0.032	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	84%		37-146%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 7832 7787 8917 | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest NC Job #: C46069

Client / Reporting Information

Company Name: CBRI
Address: 12005 Ford Rd
City: Dallas State: TX Zip: 75234
Project Contact: Leigh Grover
Phone #: (972) 773-8417
Samplers's Name: Bruce Kram

Project Information

Project Name: AT&T Bothell Data Center
Street: 20307 NorthCreek Pkwy
City: Bothell State: WA 98011
Project #
EMAIL:
Client Purchase Order #

Requested Analysis

Dx u/and u/out SOT
BTEX

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	Dx u/and u/out SOT	BTEX	LAB USE ONLY
1	MW1	6-2-16	1300	EBK		5	3				2				2	3	
2	MW2	6-2-16	1435	EBK		5	3				2				2	3	
3	MW3	6-2-16	1555	EBK		5	3				2				2	3	
4	MW4	6-2-16	1715	EBK		5	3				2				2	3	
5	MW#7	6-3-16	0935	EBK		5	3				2				2	3	
6	MW6	6-3-16	1030	EBK		5	3				2				2	3	
7	MW5	6-3-16	1135	EBK		5	3				2				2	3	
8	MW 105	6-3-16	1150	EBK		5	3				2				2	3	
9	MW8	6-3-16	1330	EBK		5	3				2				2	3	
10	Influent		1424	EBK		5	3				2				2	3	

Turnaround Time (Business days)

Approved By / Date:

- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commerical "B+" - Results, QC, and chromatograms
- FULT1 - Level 4 data package
- EDF for Geotracker
- EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Bill to Greg Rainwater

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1	Bruce Kram	6-3-16 1551	Fedex	Fedex	6/4/16 09:55	Ali Zeighami AZ
2	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal # Intact	Appropriate Bottle / Pres. Y / N	Headspace Y / N
5				Labels match Coc? Y / N	Separate Receiving Check List used: Y / N	On Ice Y / N 3.1/4.1 Cooler Temp. °C

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # | Bottle Order Control #

SGS Accutest Quote # | SGS Accutest NC Job #: C46069

Client / Reporting Information

Company Name: CBFI
Address: 12005 Ford Rd
City: Dallas State: TX Zip: 75234
Project Contact: Leigh Groves
Phone #: (972) 773-8417
Samplers's Name: Bruce Kram

Project Information

Project Name: AT&T Bothell Data Center
Street: 20307 North Creek Parkway
City: Bothell State: WA 98011
Project #
EMAIL:
Client Purchase Order #

Requested Analysis

Matrix Codes

WW- Wastewater
GW- Ground Water
SW- Surface Water
SO- Soil
OI-Oil
WP-Wipe
LIQ - Non-aqueous Liquid
AIR
DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	DX with 1 bottle SST	BTEX	LAB USE ONLY
11	Effluent	6-3-16	1434	CBF		5	3				2				2	3	
12	Trip blank														HOLD - DO NOT ANALYZE		

Turnaround Time (Business days)

Approved By / Date:

- 10 Day
- 5 Day
- 3 Day
- 2 Day
- 1 Day
- Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" - Results only
- Commercial "B" - Results with QC summaries
- Commercial "B+" - Results, QC, and chromatograms
- FULL1 - Level 4 data package
- EDF for Geotracker
- EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Bill to Greg Kam Water

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler	Date Time:	Received By:	Relinquished By	Date Time:	Received By:
1	Bruce Kram	6-3-16 1571	Fedex	Fedex	6/4/16 09:55	Ali Zeighami
2	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	Relinquished by:	Date Time:	Received By:	Custody Seal # Intact	Appropriate Bottle / Pres. Y / N	Headspace Y / N
4				Labels match Coc? Y / N	Separate Receiving Check List used: Y / N	On Ice Y / N Cooler Temp. oC

SGS Accutest Sample Receipt Summary

Job Number: C46069 **Client:** CB&I **Project:** AT&T BOTHELL DATA CENTER

Date / Time Received: 6/4/2016 9:55:00 AM **Delivery Method:** FedEx **Airbill #'s:** 783277878917

Cooler Temps (Initial/Adjusted): #1: (3.1/4.1); #2: (2.9/3.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR3;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

5.1

5

C46069: Chain of Custody

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SGS ACCUTEST C46069

GC/MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV1381-MB	V33561.D	1	06/09/16	KZ	n/a	n/a	VV1381

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	80-123%
2037-26-5	Toluene-D8	98%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Method Blank Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV1382-MB	V33591.D	1	06/10/16	KZ	n/a	n/a	VV1382

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-123%
2037-26-5	Toluene-D8	98%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV1381-BS	V33558.D	1	06/09/16	KZ	n/a	n/a	VV1381
VV1381-BSD	V33559.D	1	06/09/16	KZ	n/a	n/a	VV1381

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.8	89	20.4	102	14* [a]	76-120/10
100-41-4	Ethylbenzene	20	17.2	86	20.0	100	15* [a]	78-123/10
108-88-3	Toluene	20	17.2	86	19.8	99	14* [a]	78-121/10
1330-20-7	Xylene (total)	60	51.5	86	59.5	99	14* [a]	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	100%	80-123%
2037-26-5	Toluene-D8	97%	97%	88-112%
460-00-4	4-Bromofluorobenzene	101%	100%	79-114%

(a) RPD exceeded laboratory acceptance limit; BS/BSD recoveries met acceptance criteria. AZ:R7

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV1382-BS	V33588.D	1	06/10/16	KZ	n/a	n/a	VV1382
VV1382-BSD	V33589.D	1	06/10/16	KZ	n/a	n/a	VV1382

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.4	92	20.0	100	8	76-120/10
100-41-4	Ethylbenzene	20	18.5	93	19.6	98	6	78-123/10
108-88-3	Toluene	20	18.3	92	19.7	99	7	78-121/10
1330-20-7	Xylene (total)	60	55.4	92	58.7	98	6	78-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	99%	80-123%
2037-26-5	Toluene-D8	99%	96%	88-112%
460-00-4	4-Bromofluorobenzene	101%	100%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C45997-5MS	V33579.D	20	06/09/16	KZ	n/a	n/a	VV1381
C45997-5MSD	V33580.D	20	06/09/16	KZ	n/a	n/a	VV1381
C45997-5 [a]	V33565.D	20	06/09/16	KZ	n/a	n/a	VV1381

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-1

CAS No.	Compound	C45997-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		400	350	88	400	361	90	3	76-120/10
100-41-4	Ethylbenzene	ND		400	346	87	400	352	88	2	78-123/10
108-88-3	Toluene	ND		400	342	86	400	351	88	3	78-121/10
1330-20-7	Xylene (total)	ND		1200	1040	87	1200	1060	88	2	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C45997-5	Limits
1868-53-7	Dibromofluoromethane	100%	102%	102%	80-123%
2037-26-5	Toluene-D8	96%	96%	98%	88-112%
460-00-4	4-Bromofluorobenzene	98%	98%	100%	79-114%

(a) AZ:D2

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46069-2MS	V33607.D	1	06/10/16	KZ	n/a	n/a	VV1382
C46069-2MSD	V33608.D	1	06/10/16	KZ	n/a	n/a	VV1382
C46069-2	V33593.D	1	06/10/16	KZ	n/a	n/a	VV1382

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	C46069-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.5	103	20	19.3	97	6	76-120/10
100-41-4	Ethylbenzene	ND		20	20.0	100	20	19.0	95	5	78-123/10
108-88-3	Toluene	1.8		20	21.5	99	20	20.1	92	7	78-121/10
1330-20-7	Xylene (total)	ND		60	59.8	100	60	57.0	95	5	78-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46069-2	Limits
1868-53-7	Dibromofluoromethane	100%	101%	99%	80-123%
2037-26-5	Toluene-D8	96%	97%	98%	88-112%
460-00-4	4-Bromofluorobenzene	98%	99%	99%	79-114%

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14458-MB [a]	BB4113.D	1	06/07/16	FL	06/06/16	OP14458	GBB147

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1, C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.10	0.053	mg/l	
	TPH (Motor Oil)	ND	0.10	0.034	mg/l	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	90%	37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

Method Blank Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14507-MB	HH333383.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1A, C46069-2A, C46069-3A, C46069-4A, C46069-5A, C46069-6A, C46069-7A, C46069-8A, C46069-9A, C46069-10A, C46069-11A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	0.10	0.053	mg/l	
	TPH (Motor Oil)	ND	0.10	0.034	mg/l	

CAS No.	Surrogate Recoveries		Limits
630-01-3	Hexacosane	87%	37-146%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14458-BS [a]	BB4114.D	1	06/07/16	FL	06/06/16	OP14458	GBB147
OP14458-BSD [a]	BB4163.D	1	06/08/16	FL	06/06/16	OP14458	GBB149

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1, C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1	0.834	83	0.812	81	3	49-105/30
	TPH (Motor Oil)	1	1.01	101	1.03	103	2	70-127/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	95%	97%	37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14507-BS	HH333384.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
OP14507-BSD	HH333385.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1A, C46069-2A, C46069-3A, C46069-4A, C46069-5A, C46069-6A, C46069-7A, C46069-8A, C46069-9A, C46069-10A, C46069-11A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1	0.852	85	0.850	85	0	49-105/30
	TPH (Motor Oil)	1	1.01	101	1.02	102	1	70-127/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	88%	87%	37-146%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14458-MS [a]	BB4165.D	1	06/08/16	FL	06/06/16	OP14458	GBB149
C46069-3 [a]	BB4119.D	1	06/07/16	FL	06/06/16	OP14458	GBB147

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1, C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10, C46069-11

CAS No.	Compound	C46069-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Limits
	TPH (Diesel)	ND		0.962	0.745	77	49-105
	TPH (Motor Oil)	ND		0.962	1.03	107	70-127

CAS No.	Surrogate Recoveries	MS	C46069-3	Limits
630-01-3	Hexacosane	97%	89%	37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14507-MS	HH333399.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
C46069-3A	HH333389.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1A, C46069-2A, C46069-3A, C46069-4A, C46069-5A, C46069-6A, C46069-7A, C46069-8A, C46069-9A, C46069-10A, C46069-11A

CAS No.	Compound	C46069-3A mg/l	Q	Spike mg/l	MS mg/l	MS %	Limits
	TPH (Diesel)	ND		0.962	0.749	78	49-105
	TPH (Motor Oil)	ND		0.962	0.955	99	70-127

CAS No.	Surrogate Recoveries	MS	C46069-3A	Limits
630-01-3	Hexacosane	86%	80%	37-146%

* = Outside of Control Limits.

Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14458-DUP [a]	BB4166.D	1	06/08/16	FL	06/06/16	OP14458	GBB149
C46069-4 [a]	BB4120.D	1	06/07/16	FL	06/06/16	OP14458	GBB147

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1, C46069-2, C46069-3, C46069-4, C46069-5, C46069-6, C46069-7, C46069-8, C46069-9, C46069-10

CAS No.	Compound	C46069-4 mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH (Diesel)	ND		ND		nc	13
	TPH (Motor Oil)	0.0370	J	0.0400	J	8	20

CAS No.	Surrogate Recoveries	DUP	C46069-4	Limits
630-01-3	Hexacosane	90%	85%	37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).

* = Outside of Control Limits.

Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14458-DUP2 [a]	BB4167.D	1	06/08/16	FL	06/06/16	OP14458	GBB149
C46069-11 [a]	BB4127.D	1	06/08/16	FL	06/06/16	OP14458	GBB147

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-11

CAS No.	Compound	C46069-11 mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH (Diesel)	0.884		1.46		49* [b]	13
	TPH (Motor Oil)	0.163		0.158		3	20

CAS No.	Surrogate Recoveries	DUP	C46069-11	Limits
630-01-3	Hexacosane	101%	94%	37-146%

(a) NWTPH-Dx without Silica Gel Cleanup (per client request).
(b) Outside laboratory control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14507-DUP1	HH333400.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
C46069-4A	HH333390.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-1A, C46069-2A, C46069-3A, C46069-4A, C46069-5A, C46069-6A, C46069-7A, C46069-8A, C46069-9A, C46069-10A

CAS No.	Compound	C46069-4A mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH (Diesel)	ND		ND		nc	13
	TPH (Motor Oil)	0.0360	J	0.0378	J	5	20

CAS No.	Surrogate Recoveries	DUP	C46069-4A	Limits
630-01-3	Hexacosane	85%	79%	37-146%

* = Outside of Control Limits.

Duplicate Summary

Job Number: C46069
Account: CBITXD CB&I
Project: AT&T Data Center - 20307 North Creek Pkwy, Bothell, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14507-DUP2	HH333401.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829
C46069-11A	HH333397.D	1	06/14/16	FL	06/06/16	OP14507	GHH1829

The QC reported here applies to the following samples: **Method:** NWTPH-DX W SGC

C46069-11A

CAS No.	Compound	C46069-11A mg/l	Q	DUP mg/l	Q	RPD	Limits
	TPH (Diesel)	0.683		1.31		63* [a]	13
	TPH (Motor Oil)	0.0698	J	0.0706	J	1	20

CAS No.	Surrogate Recoveries	DUP	C46069-11A	Limits
630-01-3	Hexacosane	88%	84%	37-146%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

SGS ACCUTEST
C46069

Appendix B

June 2016 Sampling Event Field Sampling Data Sheets

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW1

SITE ADDRESS: 20307 North Creek Parkway Bothell WA 98011 **BLIND ID:** —

DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	(W)	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		(CLOUDY)		RAIN		?		**TEMPERATURE:**	°F 17.5	(°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
6/2/16	11:19	.	.	~~4.35~~	.	.	X 1	.
/ /	:	.	.	4.28	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 7.35

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	6/2/16	13:00	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	6/2/16	13:00	B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 12:29 Pump/Bailer Inlet Depth: ~~5.85~~ ~~6.35~~ ~~6.85~~ 7.35

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1233 0	B	0.00	6.47	76.2	488	15.99	4.35	8.00	slight turbidity; Ø color
1236 1	B	0.50	4.89	131.7	456	15.90	5.38	5.76	Ø turbidity; Ø color
1242 2	B	1.00	4.97	112.0	443	15.69	5.85	4.98	" " " "
1248 3	B	1.50	5.12	97.1	440	15.50	6.33	3.81	" " " "
1254 4	B	2.00	5.13	92.0	435	15.45	6.70	4.97	" " " "
1259 5	B	2.50	5.23	82.4	432	15.26	7.14	4.86	" " " "
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW2
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM: N | NE | E | SE | S | (SW) | W | NW — (LIGHT) | MEDIUM | HEAVY
WEATHER: SUNNY | (CLOUDY) | RAIN | ? **TEMPERATURE:** °F 19.5 (°C)
[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
6/2/16	11:23	.	.	5.85	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 8.42 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	6/2/16	14:35	~~A~~ B	3	(40 ml)	HCl	(YES)	(NO)		
Amber Glass	6/2/16	14:35	~~A~~ B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 — Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 14:01 Pump/Bailer Inlet Depth: ~~8.42~~ 7 ~~8.42~~

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1402 0	B	0.00	6.16	22.2	226	14.67	5.92	15.21	slight turbidity; Ø color
1409 1	B	0.50	5.62	34.5	212	14.47	6.06	5.99	Ø turbidity; Ø color
1414 2	B	1.00	4.02	120.4	215	14.31	7.20	4.37	" " " "
1420 3	B	1.50	4.75	82.5	246	14.32	7.65	3.87	" " " "
1425 4	B	2.00	4.85	75.6	251	14.23	7.95	3.87	" " " "
1431 5	B	2.50	5.11	59.0	263	13.89	8.40	1.92	" " " "
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW3
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN			?	**TEMPERATURE:**	°F 20.0	(°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
6/2/16	11:27	.	.	3.98	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 5.48

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	6/2/16	15:55	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	6/2/16	15:55	B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3

Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_2/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 15:27 Pump/Bailer Inlet Depth: 5.48

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1529	0	B	0.00	6.51	17.0	276	15.70	3.98	25.00	Ø turbidity; Ø color
1534	1	B	0.50	5.99	28.4	272	15.00	4.12	5.99	" " ; " "
1539	2	B	1.00	5.96	27.2	263	14.79	4.16	1.85	" " ; " "
1544	3	B	1.50	5.95	25.1	255	14.72	4.18	1.52	" " ; " "
1550	4	B	2.00	5.93	24.3	251	14.67	4.18	1.41	" " ; " "
	5		.	.			.	.	.	
	6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW4
SITE ADDRESS: 20307 North Creek Parkway, Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	(LIGHT)	MEDIUM	HEAVY
WEATHER:	SUNNY		(CLOUDY)		RAIN		?		**TEMPERATURE:**	°F . °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
6/2/16	11:32	.	.	1.98	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 3.59

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√ if used
VOA Glass	6/2/16	17:15	BG	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	6/2/16	17:15	B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 16:37 Pump/Bailer Inlet Depth: 3.59

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1640	0	B	0.00	6.78	7.0	220	15.11	2.09	8.30	slight turbidity; Ø color
1645	1	B	0.50	6.16	19.1	221	14.21	2.98	2.43	Ø turbidity; Ø color
1650	2	B	1.00	6.01	26.5	218	13.93	3.06	1.79	" " " "
1655	3	B	1.50	4.79	92.3	217	13.97	3.08	1.49	" " " "
1700	4	B	2.00	5.68	42.7	216	13.84	3.09	1.40	" " " "
1705	5	B	2.50	5.75	38.4	218	14.01	3.29	1.13	" " " "
1710	6	B	3.00	5.92	28.7	216	13.75	3.53	1.25	" " " "

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

New tubing installed on MW4 after sampling.

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW5
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** MW 105
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN			?	TEMPERATURE:	°F . °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
6/2/16	11:47	.	.	4.98	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = $(dia./2)^2 \times 0.163$	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 7.60

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	6/3/16	11:35	G	3 6 40 ml	(HCl)	(YES)	(NO)		
Amber Glass	6/3/16	11:35	B	4 250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO_3	YES	YES		
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR[ ] WA[ ]
	AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
	YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 11:14 Pump/Bailer Inlet Depth: ~~6.50~~ 7.50

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1115	0	B	0.00	6.20	65.5	457	17.75	5.00	6.70	Ø color; Ø turbidity
1120	1	B	0.50	6.10	61.6	417	17.12	.	1.43	" " ; " "
1125	2	B	1.00	6.08	56.7	415	17.10	6.02	1.09	" " ; " "
1131	3	B	1.50	6.04	53.3	416	17.16	6.38	0.97	" " ; " "
1136	4	B	2.00	6.01	52.0	416	17.11	6.59	0.91	" " ; " "
	5		.	.			.	.	.	
	6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

MW 105 samples collected @ 1150

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW6
SITE ADDRESS: 20307 North Creek Parkway, Bothell, WA 98011 **BLIND ID:** —
DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		TEMPERATURE:	°F . °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
6/2/16	11:39	.	.	4.05	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 6.61 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	6/3/16	10:30	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	6/3/16	10:30	B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 — Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 10:05 Pump/Bailer Inlet Depth: ~~5.61~~ ~~6.11~~ 6.61

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1006	0	B	0.00	6.26	76.3	330	19.57	4.11	20.47	Ø turbidity; Ø color
1011	1	B	0.50	6.10	73.4	328	19.75	4.84	3.68	" " ; " "
1017	2	B	1.00	6.05	70.8	321	19.43	5.46	1.20	" " ; " "
1023	3	B	1.50	6.17	68.2	321	19.53	5.65	3.46	" " ; " "
1028	4	B	2.00	6.02	67.7	316	18.73	5.96	2.35	" " ; " "
	5		.	.		.	.	.	.	
	6		.	.		.	.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

New tubing installed in MW6 after sampling.

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW 7
SITE ADDRESS: 20307 North Creek Parkway, Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN			?	TEMPERATURE:	°F . °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
6/2/16	11:35	.	.	3.33	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 5.42

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used]
VOA Glass	6/3/16	09:25	G	3	40 ml	(HCl)	(YES)	(NO)		
Amber Glass	6/3/16	09:25	B	2	250, 500, 1L	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 5

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: 08:56 Pump/Bailer Inlet Depth: 4.92 5.42

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0858 0	B	0.00	7.13	152.5	263	14.56	3.42	22.26	slight turbidity, Ø color
0908 1	B	0.50	6.55	139.5	260	14.58	4.10	6.24	Ø turbidity, Ø color
0910 2	B	1.00	6.34	124.9	253	14.33	4.70	2.33	" " " "
0915 3	B	1.50	6.32	119.3	250	14.25	5.02	2.64	" " " "
0920 4	B	2.00	6.30	112.9	249	14.02	5.34	2.00	" " " "
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW8
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN			?	TEMPERATURE:	°F .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
6/2/16	11:52	.	.	5.76	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 9.80 [√ if used]

Bottle Type	Date	Time	Method §	Amount	Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	6/3/16	13:30	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	6/3/16	13:30	B	2	250, 500, (1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count):

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

9.80
~~9.30~~
~~8.80~~

WATER QUALITY DATA Purge Start Time: 12:56 Pump/Bailer Inlet Depth: ~~7.30~~ ~~7.80~~ ~~8.30~~

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1258 0	B	0.00	6.43	73.5	603	16.29	5.80	19.35	slight turbidity, Ø color
1303 1	B	0.50	6.27	62.6	545	16.06	7.09	3.57	Ø turbidity, Ø color
1308 2	B	1.00	6.29	51.5	532	17.27	7.19	2.49	" " " " "
1313 3	B	1.50	6.24	39.6	518	15.89	7.72	1.97	" " " " "
1319 4	B	2.00	6.19	32.4	494	15.89	8.32	1.29	" " " " "
1324 5	B	2.50	6.15	28.1	480	15.62	8.84	1.13	" " " " "
1329 6	B	3.00	6.10	24.0	469	15.53	9.38	1.48	" " " " "

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

t = 17.95 ORP = 17.4
pH = ~~6~~ 6.41
cond = ~~1000~~ 252
DO = 2.53

sheen/slio on surface of purge water

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)

Appendix C

December 2016 Sampling Event Laboratory Analytical Report

Pace Analytical Services, LLC
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

December 23, 2016

Jason Ramsay
CB&I Environmental & Infrastructure
12005 Ford Road
Suite 600
Dallas, TX 75234

RE: Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Dear Jason Ramsay:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes

Scott M Forbes for
Carrie Jensen
carrie.jensen@pacelabs.com
Project Manager

Enclosures

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Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Davis Cerification IDs

2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA
Minnesota Department of Health Certification #: 006-999-465

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SAMPLE SUMMARY

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1280591001	**MW1**	Water	12/14/16 12:10	12/16/16 09:50
1280591002	**MW2**	Water	12/14/16 13:05	12/16/16 09:50
1280591003	**MW3**	Water	12/14/16 14:00	12/16/16 09:50
1280591004	**MW4**	Water	12/14/16 15:00	12/16/16 09:50
1280591005	**MW7**	Water	12/14/16 16:00	12/16/16 09:50
1280591006	**MW6**	Water	12/15/16 11:45	12/16/16 09:50
1280591007	**MW8**	Water	12/15/16 12:55	12/16/16 09:50
1280591008	**MW108**	Water	12/15/16 13:15	12/16/16 09:50
1280591009	**Trip Blank**	Water		12/16/16 09:50

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SAMPLE ANALYTE COUNT

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1280591001	**MW1**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591002	**MW2**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591003	**MW3**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591004	**MW4**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591005	**MW7**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591006	**MW6**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591007	**MW8**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV
1280591008	**MW108**	EPA 8015B	JSD	3	PASI-DAV
		EPA 8260B	JCP	7	PASI-DAV

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SUMMARY OF DETECTION

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
1280591007	**MW8**					
EPA 8015B	TPH-DRO (C10-C28)	2.6	mg/L	0.10	12/22/16 20:33	
1280591008	**MW108**					
EPA 8015B	TPH-DRO (C10-C28)	3.2	mg/L	0.10	12/23/16 10:35	

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ANALYTICAL RESULTS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Sample: MW1 **Lab ID: 1280591001** Collected: 12/14/16 12:10 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.099	1	12/19/16 13:59	12/22/16 16:25		
TPH - Motor Oil	ND	mg/L	0.099	1	12/19/16 13:59	12/22/16 16:25	64742-65-0	CL
Surrogates								
n-Octacosane (S)	87	%.	75-150	1	12/19/16 13:59	12/22/16 16:25	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 00:33	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 00:33	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 00:33	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 00:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	121	%.	70-130	1		12/22/16 00:33	17060-07-0	
Toluene-d8 (S)	116	%.	70-130	1		12/22/16 00:33	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130	1		12/22/16 00:33	460-00-4	

Sample: MW2 **Lab ID: 1280591002** Collected: 12/14/16 13:05 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.099	1	12/19/16 13:59	12/22/16 16:56		
TPH - Motor Oil	ND	mg/L	0.099	1	12/19/16 13:59	12/22/16 16:56	64742-65-0	CL
Surrogates								
n-Octacosane (S)	90	%.	75-150	1	12/19/16 13:59	12/22/16 16:56	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 00:53	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 00:53	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 00:53	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 00:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	119	%.	70-130	1		12/22/16 00:53	17060-07-0	
Toluene-d8 (S)	117	%.	70-130	1		12/22/16 00:53	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130	1		12/22/16 00:53	460-00-4	

Sample: MW3 **Lab ID: 1280591003** Collected: 12/14/16 14:00 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 17:27		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 17:27	64742-65-0	CL
Surrogates								
n-Octacosane (S)	95	%.	75-150	1	12/19/16 13:59	12/22/16 17:27	630-02-4	

REPORT OF LABORATORY ANALYSIS

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Davis, CA 95618
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ANALYTICAL RESULTS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Sample: MW3 **Lab ID: 1280591003** Collected: 12/14/16 14:00 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 01:13	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 01:13	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 01:13	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 01:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	122	%.	70-130	1		12/22/16 01:13	17060-07-0	
Toluene-d8 (S)	117	%.	70-130	1		12/22/16 01:13	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1		12/22/16 01:13	460-00-4	

Sample: MW4 **Lab ID: 1280591004** Collected: 12/14/16 15:00 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 17:58		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 17:58	64742-65-0	CL
Surrogates								
n-Octacosane (S)	92	%.	75-150	1	12/19/16 13:59	12/22/16 17:58	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 01:33	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 01:33	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 01:33	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 01:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	123	%.	70-130	1		12/22/16 01:33	17060-07-0	
Toluene-d8 (S)	117	%.	70-130	1		12/22/16 01:33	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1		12/22/16 01:33	460-00-4	

Sample: MW7 **Lab ID: 1280591005** Collected: 12/14/16 16:00 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 18:29		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 18:29	64742-65-0	CL
Surrogates								
n-Octacosane (S)	89	%.	75-150	1	12/19/16 13:59	12/22/16 18:29	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 01:52	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 01:52	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 01:52	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 01:52	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Sample: MW7 **Lab ID: 1280591005** Collected: 12/14/16 16:00 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Water	Analytical Method: EPA 8260B							
Surrogates								
1,2-Dichloroethane-d4 (S)	123	%.	70-130	1		12/22/16 01:52	17060-07-0	
Toluene-d8 (S)	117	%.	70-130	1		12/22/16 01:52	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1		12/22/16 01:52	460-00-4	

Sample: MW6 **Lab ID: 1280591006** Collected: 12/15/16 11:45 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 20:02		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 20:02	64742-65-0	CL
Surrogates								
n-Octacosane (S)	91	%.	75-150	1	12/19/16 13:59	12/22/16 20:02	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 02:12	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 02:12	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 02:12	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 02:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	124	%.	70-130	1		12/22/16 02:12	17060-07-0	
Toluene-d8 (S)	118	%.	70-130	1		12/22/16 02:12	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1		12/22/16 02:12	460-00-4	

Sample: MW8 **Lab ID: 1280591007** Collected: 12/15/16 12:55 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	**2.6**	mg/L	0.10	1	12/19/16 13:59	12/22/16 20:33		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/22/16 20:33	64742-65-0	CL
Surrogates								
n-Octacosane (S)	94	%.	75-150	1	12/19/16 13:59	12/22/16 20:33	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 02:32	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 02:32	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 02:32	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 02:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	126	%.	70-130	1		12/22/16 02:32	17060-07-0	
Toluene-d8 (S)	119	%.	70-130	1		12/22/16 02:32	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130	1		12/22/16 02:32	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Sample: MW108 **Lab ID: 1280591008** Collected: 12/15/16 13:15 Received: 12/16/16 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS Water	Analytical Method: EPA 8015B Preparation Method: EPA 3511							
TPH-DRO (C10-C28)	**3.2**	mg/L	0.10	1	12/19/16 13:59	12/23/16 10:35		
TPH - Motor Oil	ND	mg/L	0.10	1	12/19/16 13:59	12/23/16 10:35	64742-65-0	
Surrogates								
n-Octacosane (S)	108	%.	75-150	1	12/19/16 13:59	12/23/16 10:35	630-02-4	
8260 MSV Med Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		12/22/16 02:52	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 02:52	100-41-4	
Toluene	ND	ug/L	0.50	1		12/22/16 02:52	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/22/16 02:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	123	%.	70-130	1		12/22/16 02:52	17060-07-0	
Toluene-d8 (S)	118	%.	70-130	1		12/22/16 02:52	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130	1		12/22/16 02:52	460-00-4	

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QUALITY CONTROL DATA

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

QC Batch: 102440 Analysis Method: EPA 8015B
QC Batch Method: EPA 3511 Analysis Description: 8015 GCS Water
Associated Lab Samples: 1280591001, 1280591002, 1280591003, 1280591004, 1280591005, 1280591006, 1280591007, 1280591008

METHOD BLANK: 407175 Matrix: Water
Associated Lab Samples: 1280591001, 1280591002, 1280591003, 1280591004, 1280591005, 1280591006, 1280591007, 1280591008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH - Motor Oil	mg/L	ND	0.099	12/22/16 13:49	CL
TPH-DRO (C10-C28)	mg/L	ND	0.099	12/22/16 13:49	
n-Octacosane (S)	%.	87	75-150	12/22/16 13:49	

LABORATORY CONTROL SAMPLE: 407176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/L	1	0.85	83	75-125	
n-Octacosane (S)	%.			90	75-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 407177 407178

Parameter	Units	1280600005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/L	ND	1	1	0.95	0.93	86	84	30-150	2	25	
n-Octacosane (S)	%.						91	87	75-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

QC Batch: 102681 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Med Water
Associated Lab Samples: 1280591001, 1280591002, 1280591003, 1280591004, 1280591005, 1280591006, 1280591007, 1280591008

METHOD BLANK: 408140 Matrix: Water
Associated Lab Samples: 1280591001, 1280591002, 1280591003, 1280591004, 1280591005, 1280591006, 1280591007, 1280591008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	12/21/16 19:34	
Ethylbenzene	ug/L	ND	0.50	12/21/16 19:34	
Toluene	ug/L	ND	0.50	12/21/16 19:34	
Xylene (Total)	ug/L	ND	1.5	12/21/16 19:34	
1,2-Dichloroethane-d4 (S)	%.	112	70-130	12/21/16 19:34	
4-Bromofluorobenzene (S)	%.	104	70-130	12/21/16 19:34	
Toluene-d8 (S)	%.	107	70-130	12/21/16 19:34	

LABORATORY CONTROL SAMPLE: 408141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	40.8	102	75-125	
Ethylbenzene	ug/L	40	38.1	95	75-125	
Toluene	ug/L	40	43.2	108	75-125	
Xylene (Total)	ug/L	120	115	96	75-125	
1,2-Dichloroethane-d4 (S)	%.			115	70-130	
4-Bromofluorobenzene (S)	%.			108	70-130	
Toluene-d8 (S)	%.			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 408142 408143

Parameter	Units	1280595010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	40	40	40.6	41.5	101	104	75-125	2	30	
Ethylbenzene	ug/L	ND	40	40	37.4	37.9	94	95	74-125	1	30	
Toluene	ug/L	ND	40	40	42.7	43.7	107	109	75-125	2	30	
Xylene (Total)	ug/L	ND	120	120	113	115	94	96	61-129	1	30	
1,2-Dichloroethane-d4 (S)	%.						115	113	70-130			
4-Bromofluorobenzene (S)	%.						111	109	70-130			
Toluene-d8 (S)	%.						109	110	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DAV	Pace Analytical Services - Davis

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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2795 Second Street - Suite 300
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(530) 297-4800

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AT&T Bothell Data Center
Pace Project No.: 1280591

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1280591001	**MW1**	EPA 3511	102440	EPA 8015B	102493
1280591002	**MW2**	EPA 3511	102440	EPA 8015B	102493
1280591003	**MW3**	EPA 3511	102440	EPA 8015B	102493
1280591004	**MW4**	EPA 3511	102440	EPA 8015B	102493
1280591005	**MW7**	EPA 3511	102440	EPA 8015B	102493
1280591006	**MW6**	EPA 3511	102440	EPA 8015B	102493
1280591007	**MW8**	EPA 3511	102440	EPA 8015B	102493
1280591008	**MW108**	EPA 3511	102440	EPA 8015B	102493
1280591001	**MW1**	EPA 8260B	102681		
1280591002	**MW2**	EPA 8260B	102681		
1280591003	**MW3**	EPA 8260B	102681		
1280591004	**MW4**	EPA 8260B	102681		
1280591005	**MW7**	EPA 8260B	102681		
1280591006	**MW6**	EPA 8260B	102681		
1280591007	**MW8**	EPA 8260B	102681		
1280591008	**MW108**	EPA 8260B	102681		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	CBFI
Address:	12005 Ford Road, Suite 600 Dallas, TX 75234
Email To:	Leigh.Grover@CBI.com
Phone: (972) 773-8917 Fax:	
Requested Due Date/TAT:	Standard

Section B — Required Project Information:

Report To:	Leigh Grover
Copy To:	
Purchase Order No.:	
Project Name:	AT&T Bothell Data Center
Project Number:	

Section C — Invoice Information:

Attention:	Greg Rainwater
Company Name:	~~KBS~~ Trex Titan
Address:	2601 Network Blvd Frisco, TX
Pace Quote Reference:	
Pace Project Manager:	~~Greg Horton~~ Scott Forbes
Pace Profile #:	5567

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location — STATE: WA — COUNTY: KING

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 BTEX	8015 NWTPH-Dx	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	MW1	WT	G	12-14-16	1210	11.5	6				6					3	3		001
	MW2	"	"	"	1305	11.1	6				6					3	3		002
	MW3	"	"	"	1400	10.7	6				6					3	3		003
	MW4	"	"	12-14-16	1500	12.4	6				6					3	3		004
	MW7	"	"	12-14-16	1600	10.2	6				6					3	3		005
	MW6	WT	G	12-15-16	1145	12.9	6				6					3	3		006
	MW8	"	"	12-15-16	1255	13.5	6				6					3	3		007
	MW108	"	"	12-15-16	1315	13.5	6				6					3	3		008
																			DSD 121616 009
	Trip Blank	WT					1				1								HOLD DO NOT ANALYZE 010

1280591

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		12-14-16	1709							
	Bruce Kvam	12-15-16	1541	Pace	121616	0950	6.6	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Electronic Data Deliverable (EDD): ☐ EQuIS (Pace) ☐ Excel

State Specific: ☐ CA EDF (Global ID: _____) ☐ WA EIM ☐ CA WriteOn (Site: _____) ☐ Other _____

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bruce Kvam

SIGNATURE of SAMPLER: Bruce Kvam — DATE Signed (MM/DD/YY): 12/14/16

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: CBI

Project #: WO# : 1280591 (1280591)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ OnTrac ☐ Other:

Tracking Number: 7850 1926 1276

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: Foam **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☒ DA1434 ☐ DA2285 **Type of Ice:** ☒ Wet ☐ Blue ☐ Dry Ice ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read(°C): 6.0 **Cooler Temp Corrected(°C):** 6.6

Temp should be above freezing to 6°C **Correction Factor:** +0.6

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Date and Initials of Person Examining Contents: DSD 12/6/16

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1. Samples were received wrapped
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2. in bubble wrap inside of Ziploc
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3. bags. On top of Sample there
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4. was a layer of foam with
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5. two ice bags on top
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☒ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☒ Yes	☐ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☒ No	☐ N/A	14.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	15. 1 extra container received for
Trip Blank Custody Seals Present?	☐ Yes	☒ No	☐ N/A	Trip Blank sample
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Scott Rees **Date:** 12/21/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix D

December 2016 Sampling Event Field Sampling Data Sheets

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center WELL ID: MW 1
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 BLIND ID: —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		(CLOUDY)		RAIN		?		TEMPERATURE: °F 1.0 (°C)		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:06	.	.	2.88	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 5.94

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√ if used
VOA Glass	12/14/16	12:10	G	6	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [ ] WA [ ]
	AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
	YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 11:43 Pump/Bailer Inlet Depth: 3.94 4.94 5.94

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1145 0	B	0.00	7.56	-68.8	329	9.9	2.94	1.43	colorless. 0 turbidity
1149 1	B	0.75	6.68	-102.3	325	10.3	3.92	0.60	" "
1154 2	B	1.50	6.41	-122.1	334	10.8	4.81	2.35	" "
1159 3	B	1.75	6.34	-126.9	320	11.3	5.18	0.88	" "
1204 4	B	2.25	6.30	-145.7	316	11.5	5.51	0.46	" "
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional Series (Pro DSS) w/ flow-thru cell

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW2
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)			(CLOUDY)	RAIN			?	TEMPERATURE:	°F 0.5	(°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:11	.	.	5.23	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 7.34

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	12/14/16	13:05	GB	6	(40 ml) (HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L HNO_3	YES	YES		
	/ /	:			250, 500, 1L	YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR[ ] WA[ ]
	AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
	YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 12:36 Pump/Bailer Inlet Depth: 6.84 7.34 7.84

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1238 0	B	0.00	6.54	-23.0	238	10.4	5.34	1.76	colorless; 0 turbidity
1245 1	B	0.75	6.23	-64.5	239	10.8	6.45	0.56	" ; "
1250 2	B	1.10	6.17	-87.3	239	10.7	6.75	0.43	" ; "
1255 3	B	1.60	6.11	-98.4	238	10.5	7.06	1.88	" ; "
1300 4	B	2.00	6.12	-113.4	243	11.1	7.36	0.44	" ; "
1305 5	B	2.30	6.10	-122.8	239	11.1	7.62	0.40	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional Series (Pro DSS) w/ flo-thru cell

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: ATRT Bothell Data Center **WELL ID:** MW3
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	TEMPERATURE:	°F 1.0 °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:15	.	.	3.20	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 4.78

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√ if used
VOA Glass	12/14/16	14:00	G	6	40 ml (HCl)	YES	NO		
Amber Glass	/ /	:			250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500 HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L HNO_3	YES	YES		
	/ /	:			250, 500, 1L	YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 13:37 Pump/Bailer Inlet Depth: 4.78

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
1339 0	B	0.00	6.28	-118.6	279	9.1	3.29	3.73	colorless; 9 turbidity
1344 1	B	0.70	6.26	-114.1	282	10.4	3.37	0.48	" " "
1349 2	B	1.15	6.25	-106.5	271	10.5	3.40	0.40	" " "
1354 3	B	1.65	6.23	-124.4	268	10.6	3.40	0.35	" " "
1359 4	B	2.20	6.22	-138.0	267	10.7	3.42	0.31	" " "
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional series (Pro DSS) - turbidity not working (giving negative numbers)

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW4
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN			?	**TEMPERATURE:**	°F	1.0 (°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:20	.	.	1.61	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = $(dia./2)^2 \times 0.163$ | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 3.31 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	12/14/16	15:00	G	6 (40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO_3	YES	YES		
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 14:37 Pump/Bailer Inlet Depth: 2.71 3.31

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
1439 0	B	0.00	6.62	-6.6	249	9.4	1.71	1.59	Colorless; Ø turbidity
1445 1	B	1.00	6.55	-59.6	250	11.6	2.84	0.41	" ; " "
1452 2	B	1.25	6.49	-94.3	249	11.9	2.63	0.35	" ; " "
1457 3	B	1.90	6.46	-114.6	247	12.3	2.95	1.23	" ; " "
1501 4	B	2.50	6.45	-120.1	250	12.4	2.93	0.43	" ; " "
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional Series (ProDSS) w/ flo-thru cell

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: ATRT Bothell Data Center **WELL ID:** MW6
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		(CLOUDY)		RAIN			?	TEMPERATURE:	°F 1.5	(°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:30	.	.	3.76	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 5.34 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	12/15/16	11:45	G	6 (40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:		250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO_3	YES	YES		
	/ /	:		250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 11:17 Pump/Bailer Inlet Depth: 5.34

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1120	0	B	0.00	6.70	-26.3	380	13.2	3.84	0.84	colorless; 0 turbidity
1125	1	B	0.70	6.24	-59.7	372	12.2	4.52	0.46	" ; " "
1130	2	B	1.25	6.15	-83.9	358	12.3	4.96	0.40	" ; " "
1135	3	B	1.75	6.13	-97.6	351	12.4	5.34	0.38	" ; " "
1140	4	B	2.35	6.12	-110.1	355	12.9	5.74	0.36	" ; " "
	5		.	.			.	.	.	
	6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional Series (Pro DSS) w/ flo-thru cell

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW7
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		**TEMPERATURE:**	°F 0.0 (°C)	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
12/13/16	14:25	.	.	2.58	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 5.30

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	12/14/16	16:00	G	6	40 ml	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8260) (8011) OR [ ] WA [ ]
	AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
	YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
	RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 15:30 Pump/Bailer Inlet Depth: ~~4.17~~ 5.17 ~~5.17~~ 5.30

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1533 0	B	0.00	6.78	-3.4	195	9.4	2.67	1.90	colorless; Ø turbidity
1538 1	B	0.75	6.74	-48.0	183	9.3	3.68	0.51	" ; " "
1545 2	B	1.40	6.62	-83.2	178	9.7	4.15	2.05	" ; " "
1551 3	B	1.90	6.55	-97.6	195	10.0	4.60	0.46	" ; " "
1556 4	B	2.40	6.51	-115.1	190	10.2	4.94	1.17	" ; " "
5		.	.			.	.	.	
6			.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* Using YSI Professional Series (ProDSS) w/ flo-thru cell

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** MW8
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98041 **BLIND ID:** —
DUP ID: MW10B NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		(CLOUDY)		RAIN			?			

TEMPERATURE: °F 2.0 (°C) [Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW		[Water Column x Gal/ft] Volume (gal)
12/13/16	14:44	.	.	5.16	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = $(dia./2)^2 \times 0.163$ | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Tubing

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: 8.69

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	12/15/16	12:55	8260	12	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 — Total Bottles (include duplicate count): 12

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR[ ] WA[ ]
AMBER - Glass	(8080) (8150) (TOX) OR[ ] WA[ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA * Purge Start Time: 12:29 Pump/Bailer Inlet Depth: 6.66 6.69 7.20 8.69

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality *
1233 0	B	0.00	6.64	-54.3	740	12.7	5.26	2.50	colorless; ø turbidity
1237 1	B	0.60	6.59	-115.6	752	12.3	6.17	4.38	" ; " "
1242 2	B	0.85	6.55	-141.3	791	13.1	6.64	0.60	" ; " "
1247 3	B	1.10	6.54	-142.1	793	12.7	6.69	1.67	" ; " "
1252 4	B	1.60	6.54	-143.6	790	13.5	7.38	0.40	" ; " "
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

MW10B samples collected @ 1315

* using YSI Professional Series (Pro DSS) w/ flow-thru cell

* sheen on surface of purge H_2O, Black particulate matter in purge water, samples, and outside of sampling tubing.

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)

Black material may be being scraped from inside of well casing.

FIELD SAMPLING DATA SHEET

CBI
18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012
Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** Influent
SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —
DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		(CLOUDY)		RAIN			?	TEMPERATURE:	°F 2.5	(°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = ~~Grab~~ (Grab)

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	12/15/16	14:15	G	6	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8260) (8011) OR [ ] WA [ ]
AMBER - Glass	(8080) (8150) (TOX) OR [ ] WA [ ]
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (Silica, T.) (NO3)
YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)
	OWS

WATER QUALITY DATA * Purge Start Time: Discharge Chamber Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1405 0	—	0.00	7.66	-45.4	331	10.3	—	3.14	—
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* using YSI Professional Series (ProDSS)

SAMPLER: Bruce Kvam (PRINTED NAME) Bruce Kvam (SIGNATURE)

FIELD SAMPLING DATA SHEET

CBI

18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012

Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Bothell Data Center **WELL ID:** Effluent

SITE ADDRESS: 20307 North Creek Parkway Bothell, WA 98011 **BLIND ID:** —

DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		(CLOUDY)		RAIN			?	**TEMPERATURE:**	°F . °C	

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
/ /	:	.	.	.	.	.	X 1	.
/ /	:	.	.	.	.		X 3	.

Gal/ft = $(dia./2)^2$ x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other = Grab

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	12/15/16	14:26	G	6	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			125, 250, 500	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

White no acid, Yellow H2SO4, Red HNO3 Total Bottles (include duplicate count): 6

Analysis Allowed per Bottle Type

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YELLOW - Poly	(COD) (TOC) (NH_3) (NO_3/NO_2) (Tannin/Lignin)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hardness)
RED DISSOLVED - Poly	(Ca) (Fe) (Mg) (Mn) (K) (Na)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0		0.00	.			.	.	.	
1		.	.			.	.	.	
2		.	.			.	.	.	
3		.	.			.	.	.	
4		.	.			.	.	.	
5		.	.			.	.	.	
6		.	.			.	.	.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Bruce Kram (PRINTED NAME) Bruce Kram (SIGNATURE)