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February 1, 2016 Project No. 154113

Department of Ecology
Heather Vick (TCP)
3190 160th Ave. SE
Bellevue, WA 98008-5452

Re: Annual Groundwater Monitoring Report and Four Quarters of Groundwater Pumping, Treatment, and SPH Monitoring – 2014/2015
AT&T Data Center - 20307 North Creek Parkway, Bothell, Washington
Department of Ecology TCP# NW2011, ID# 3706871

Dear Ms. Vick:

CB&I Environmental & Infrastructure, Inc. (CB&I) is pleased to present the results of the 2015 groundwater monitoring activities conducted at the AT&T Bothell Facility (Site) located at 20307 North Creek Parkway, Bothell, Washington (Figure 1). This 2015 Annual Groundwater Monitoring Report includes activities conducted during the fourth quarter of 2014 and the first three quarters of 2015. Additionally, two semi-annual groundwater monitoring events were performed in 2015 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 2015 semi-annual groundwater monitoring events to assess progress of remedial actions at the Site and associated laboratory results,
- the fourth quarter of 2014 and first three quarters of 2015 groundwater pumping and treatment through the oil water separator (OWS), and site groundwater depth measurements compared to the impermeable liner and separate phase hydrocarbon (SPH) measurement and removal, and;
- OWS system laboratory results, pumping volumes, conclusions, and recommendations for the Site.

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 east side of the Site and Interstate 405 borders the west side. The property is largely paved and contains three office buildings and a generator building. The property is approximately 8.13 acres and is situated within N1/2, NE1/4, Section 5, T26N, R5E, King County, Washington. The facility, currently owned 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 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 report 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) had TPH-D results 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 ug/L, above the MTCA Method A Groundwater Cleanup Level of 500ug/L. 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). Total xylenes were reported as 1,000 µg/L in January 2009 with the MTCA Method A Groundwater Cleanup Level for total xylenes as 1,000 µg/L. Concentrations of total xylenes 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 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 SPH from the groundwater. The OWS can handle up to 20 gallons per minute (gpm). Any SPH that collects in the OWS gravity flows 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 (pumps are installed in EW-3, EW-5, EW-6, and EW-10) to assist in keeping the groundwater levels below the liner and/or in SPH recovery.

A Discharge Authorization to allow discharge of pumped groundwater into the sanitary sewer was acquired from King County and the City of Bothell. As part of the sewer permit, a report is prepared semi-annually that includes 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 a 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 a depth of 2 to 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. Groundwater elevation data indicates the general direction of flow of the shallow groundwater is to the south.

SEMI-ANNUAL GROUNDWATER MONITORING 2015

Semi-annual groundwater monitoring was conducted during the months of March and September, 2015. The location of the eight groundwater monitoring wells sampled, MW-1 through MW-8, are shown on Figure 2.

March 2015 Groundwater Monitoring Event

The first 2015 semi-annual groundwater monitoring event was performed on March 25, 2015. The groundwater flow direction during the monitoring event (as measured on March 25, 2015) was to the south, as shown on Figure 3. This gradient remains consistent with previous monitoring events. Monitoring wells MW-4 and MW-7 were not used in the gradient evaluation due to high water levels which appeared to be an anomaly. Groundwater sampling was performed using low-flow sampling techniques. The depth to water was measured and recorded; the wells were then purged and sampled with a portable peristaltic pump system fitted with dedicated polyethylene and silicon 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 field conductivity, DO, ORP, and temperature for three consecutive measurements. 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.

The monitoring well samples were submitted under chain-of-custody documentation to Pace Analytical of Minneapolis, Minnesota 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 March 25, 2015 groundwater sampling event indicated that TPH D, TPH O, and BTEX concentrations were below the respective MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from wells MW-1 through MW-7. The concentration of TPH-D collected from well MW-8 (3,500 ug/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L. BTEX from MW-8 were reported below the respective MTCA Method A Groundwater Cleanup Levels. These results are consistent with previous sampling results. The groundwater elevation summary and analytical results are presented in Table 1. The March 25, 2015 laboratory analytical report is provided in Attachment 1 and the FSDSs are provided in Attachment 2.

September 2015 Groundwater Monitoring Event

The second 2015 semi-annual groundwater monitoring event was performed on September 28 and 29, 2015. The groundwater flow direction, as measured on September 28, 2015, was to the south, as shown on Figure 4. This gradient remains consistent with previous monitoring events. Groundwater sampling was performed using low-flow sampling techniques. The depth to water 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 field conductivity, DO, ORP, and temperature for three consecutive measurements. Groundwater samples were then collected directly from the pump discharge tubing, into pre-preserved laboratory-supplied containers, labeled, and placed in a chilled cooler. BTEX samples are not allowed to run through the peristaltic pump.

The monitoring well samples were submitted under chain-of-custody documentation to Pace Analytical in Minneapolis, Minnesota, 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 September 2015 groundwater sampling event indicated that TPH-D, TPH-O, and BTEX concentrations were below the respective MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from wells MW-1 through MW-7. The concentration of TPH-D collected from well MW-8 (2,000 ug/L) was above the MTCA Method A Groundwater Cleanup Level of 500 µg/L. BTEX from MW-8 were reported below the respective MTCA Method A Groundwater Cleanup Levels. These results are consistent with previous sampling results. Groundwater elevation summaries and analytical results are presented in Table 1. The September 28, 2015 laboratory analytical report is provided in Attachment 3 and the FSDSs are provided in Attachment 4.

SUMMARY OF DEPTH TO GROUNDWATER AND SPH MEASUREMENT EFFORTS DURING THE MONITORING PERIOD

CB&I monitored groundwater and SPH levels in 10 extraction wells (EW-1 through EW-10), during the fourth quarter of 2014 and first three quarters of 2015 (Figure 2). Based upon those measurements and in an attempt to keep groundwater levels below the impermeable liner and remediate contamination, groundwater and SPH 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-28), throughout the monitoring period. SPH was pumped from observation wells and piezometers inside the generator building. The purged SPH was placed in the 120-gallon SPH holding tank on the OWS skid for future disposal.

For ease of presentation, the groundwater/ SPH monitoring and pumping is divided into four quarters. The results of each quarter are summarized below.

Fourth Quarter 2014 Groundwater/SPH Monitoring and Pumping Results

CB&I monitored groundwater and SPH levels during the fourth quarter (October, 1 2014 through December 31, 2015) in a select number of the extraction and observation wells and piezometers at the Site. SPH and groundwater were recovered from the wells or piezometers if SPH was present greater than 0.03 feet thick. A peristaltic pump and tubing were used to pump the SPH/groundwater into a graduated bucket; the totals of each liquid were recorded once a recoverable amount of SPH was no longer achievable. Readings were recorded and the SPH/groundwater mixture was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The results of the fourth quarter 2014 monitoring showed that no measurable SPH (greater than 0.005 feet) had accumulated in any of the extraction wells. However, SPH was recovered from observation wells/piezometers OW-2, B-19, B-20, B-25, and B-26 on multiple occasions. During the fourth quarter 2014, approximately 1.34 gallons of SPH was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The total volume of groundwater extracted from the extraction wells and treated in the OWS at the Site during the fourth quarter of 2014 was 1,033,634 gallons.

The extraction well depth to water and SPH thickness data is included in Table 2. The total volume of groundwater pumped during the monitoring period is included in Table 6. The volumes of SPH and groundwater recovered from each of the observation wells/piezometers in the generator building for the fourth quarter of 2014 is included in Table 7A.

First Quarter 2015 Groundwater/SPH Monitoring and Pumping Results

CB&I monitored groundwater and SPH levels during the first quarter of 2015 (January 1, 2015 through March 31, 2015) in a select number of the extraction and observation wells and piezometers at the Site. SPH and groundwater were recovered from the wells or piezometers if SPH was present greater than 0.03 feet thick. A peristaltic pump and tubing were used to pump the SPH/groundwater into a graduated

bucket; the totals of each liquid were recorded once a recoverable amount of SPH was no longer achievable. Readings were recorded and the SPH/groundwater mixture was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

SPH was recorded in extraction well EW-6 on two occasions, January 22 and 30, 2015 with a SPH thickness of 0.010 and 0.150 feet. SPH was recorded in extraction well EW-2 on one occasion, March 5, 2015 with a SPH thickness of 0.010 feet. SPH was recorded in extraction well EW-10 on one occasion, March 20, 2015 with a SPH thickness of 0.010 feet. SPH was recovered from observation wells/piezometers OW-2, B-19, B-20, and B-26 on multiple occasions. During the first quarter, approximately 0.62 gallons of SPH was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The total volume of groundwater extracted from the extraction wells and treated in the OWS at the Site during the first quarter of 2015 was 1,896,798 gallons.

The extraction well depth to water and SPH thickness data is included in Table 3. The total volume of groundwater pumped during the first quarter is included in Table 6. The volumes of SPH and groundwater recovered from each of the observation wells/piezometers in the generator building for the first quarter of 2015 is included in Table 7B.

Second Quarter 2015 Groundwater/SPH Monitoring and Pumping Results

CB&I monitored groundwater and SPH levels during the second quarter of 2015 (April 1, 2015 through June 30, 2015) in a select number of extraction and observation wells and piezometers at the Site. SPH and groundwater were recovered from the wells or piezometers if SPH was present greater than 0.03 feet thick. A peristaltic pump and tubing were used to pump the SPH/groundwater into a graduated bucket; the totals of each liquid were recorded once a recoverable amount of SPH was no longer achievable. Readings were recorded and the SPH/groundwater mixture was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

SPH was recorded in extraction well EW-5 on one occasion, April 28, 2015 with a SPH thickness of 0.01 feet. SPH was recorded in extraction well EW-6 on two occasions, June 11 and 18, 2015 with a SPH thickness of 0.01 feet during each event. SPH was recovered from observation wells/piezometers OW-2, B-19, B-20, and B-26 on multiple occasions. During the second quarter, approximately 0.32 gallons of SPH was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The total volume of groundwater extracted from the extraction wells and treated in the OWS at the Site during the second quarter of 2015 was 604,500 gallons.

The extraction well depth to water and SPH thickness data is included in Table 4. The total volume of groundwater pumped during the second quarter of 2015 is included in Table 6. The volumes of SPH and groundwater recovered from each of the observation wells/piezometers in the generator building for the second quarter of 2015 is included in Table 7C.

Third Quarter 2015 Groundwater/SPH Monitoring and Pumping Results

CB&I monitored groundwater and SPH levels during the third quarter (July, 1 2014 through September 30, 2015) in a select number of the extraction and observation wells and piezometers at the Site. SPH and groundwater were recovered from the wells or piezometers if SPH was present greater than 0.03 feet thick. A peristaltic pump and tubing were used to pump the SPH/groundwater into a graduated bucket; the totals of each liquid were recorded once a recoverable amount of SPH was no longer achievable. Readings were recorded and the SPH/groundwater mixture was transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The results of the third quarter 2015 monitoring showed that no measurable SPH (greater than 0.005 feet) had accumulated in any of the extraction wells. However, SPH was recovered from observation wells/piezometers B-19, B-20, B-25, and B-26 on multiple occasions. During the third quarter 2015, approximately 0.35 gallons of SPH transferred to the 120-gallon SPH holding tank on the OWS skid for future disposal.

The total volume of groundwater extracted from the extraction wells and treated in the OWS at the Site during the third quarter of 2015 was 171,398 gallons.

The extraction well depth to water and SPH thickness data is included in Table 5. The total volume of groundwater pumped during the third quarter of 2015 is included in Table 6. The volumes of SPH and groundwater recovered from each of the observation wells/piezometers in the generator building for the third quarter of 2015 is included in Table 7D.

CONCLUSIONS

The following results are based on the analytical data collected during the 2015 semi-annual groundwater monitoring events:

The March 2015 groundwater analytical results indicated:

- TPH-O and BTEX concentrations were below the MTCA Method A Groundwater Cleanup Levels in groundwater samples collected from all wells MW-1 through MW-8.
- TPH-D concentrations were non-detect in groundwater samples collected from all wells except for MW-8. The TPH-D concentration in MW-8 (3,500 ug/L) was above the MTCA Method A Groundwater Cleanup Level of 500 ug/L.

The September 2015 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 all wells except for MW-8. TPH-D concentration in MW-8 (2,000 ug/L) was above the MTCA Method A Groundwater Cleanup Level of 500 ug/L.

Groundwater analytical results in MW-8 (installed near the spill 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 2,672,696 gallons of groundwater was removed and treated by the onsite OWS system during the monitoring period. The water was then discharged to the sanitary sewer under the King County Discharge Authorization.

A total of 2.63 gallons of SPH was removed from the observation wells and piezometers in the generator building during the monitoring period.

RECOMMENDED ACTIONS

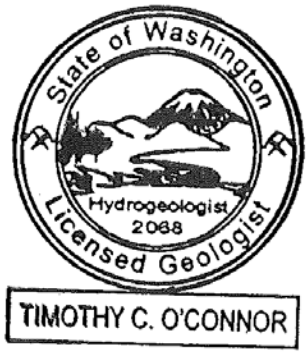
Based on the findings of the semi-annual groundwater monitoring events and the pumping and treatment of the impacted groundwater, CB&I recommends continued semi-annual groundwater monitoring. Analytical parameters will include NWTPH-Dx for diesel- and oil-range petroleum hydrocarbons with and without silica gel cleanup and EPA Method 8260B for BTEX; together with pH, DO, ORP, turbidity, and depth-to-water measurements. Semi-annual groundwater monitoring, groundwater extraction, and treatment will continue. During the upcoming monitoring and extraction activities, the site will be evaluated for potential optimization measures both for SPH removal/treatment and for the on-site system. At the completion of the monitoring events, an annual groundwater monitoring report (with the first quarter to be from October through December 2015) will be completed and submitted to the Department of Ecology.

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

Sincerely,



Tim O'Connor, LG, LHG
Senior Project Geologist
CB&I Environmental & Infrastructure, Inc.





Leigh Grover
Project Manager
CB&I Environmental & Infrastructure, Inc.

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cc: Mr. Greg Rainwater; AT&T Services, Inc.
308 South Akard, Suite 1700
Dallas, Texas 75202

Tables: 1 Groundwater Elevation Summary and Analytical Results (2009 - 2015)
2 Groundwater Depth/SPH Thickness (Extraction Wells), Fourth Quarter 2015
3 Groundwater Depth/SPH Thickness (Extraction Wells), First Quarter 2015
4 Groundwater Depth/SPH Thickness (Extraction Wells), Second Quarter 2015
5 Groundwater Depth/SPH Thickness (Extraction Wells), Third Quarter 2015
6 Groundwater/SPH Pumping (Fourth Quarter 2014, First, Second, and Third Quarters 2015)
7A Volume of SPH Removed from Extraction Wells, Fourth Quarter 2014
7B Volume of SPH Removed from Extraction Wells, First Quarter 2015
7C Volume of SPH Removed from Extraction Wells, Second Quarter 2015
7D Volume of SPH Removed from Extraction Wells, Third Quarter 2015

Figures: 1 Area Location Map
2 Groundwater Monitoring, Extraction, and Observation Well Location Map
3 Groundwater Contour Map – March 25, 2015
4 Groundwater Contour Map – September 28, 2015

Appendix: A March 25, 2015, Analytical Report
B March 25 2015, Field Sampling Data Sheet
C September 28 and 29, 2015 Field Sampling Analytical Reports
D September 28 and 29, 2015, Field Sampling Data Sheets

Tables

Table 1
Groundwater Elevation Summary and Analytical Results 2009-2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Depth to SPH (feet)	SPH Thickness (feet)	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	Contaminant					
							TPH-D[b]	TPH-O[b]	Benzene[c]	Toluene[c]	Ethyl benzene[c]	Total Xylene[c]
GCLs							500	500	5	1,000	700	1,000
MW-1	1/12/2009	2.89	ND	—	36.12	33.23	ND	ND	ND	ND	ND	ND
	4/8/2009	3.72	ND	—	36.12	32.4	ND	ND	ND	ND	ND	ND
	7/8/2009	4.41	ND	—	36.12	31.71	ND	ND	ND	ND	ND	ND
	10/28/2009	3.34	ND	—	36.12	32.78	ND	ND	ND	ND	ND	ND
	4/6/2010	4.07	ND	—	36.12	32.05	ND	ND	ND	ND	ND	ND
	10/6/2010	4.59	ND	—	36.12	31.53	ND	ND	ND	1.6	ND	ND
	3/10/2011	1.68	ND	—	36.12	34.44	ND	ND	ND	ND	ND	ND
	9/15/2011	4.87	ND	—	36.12	31.25	ND	ND	ND	ND	ND	ND
	3/15/2012	0.99	ND	—	36.12	35.13	ND	ND	ND	ND	ND	ND
	10/5/2012	4.88	ND	—	36.12	31.24	170Y[e]	360Y[e]	ND	ND	ND	ND
	3/1/2013	2.71	ND	—	36.12	33.41	ND	ND	ND	ND	ND	ND
	10/8/2013	3.45	ND	—	36.12	32.67	ND	ND	ND	ND	ND	ND
	3/17/2014	1.70	ND	—	36.12	34.42	ND	ND	ND	ND	ND	ND
	9/24/2014	1.73	ND	—	36.12	34.39	ND	ND	ND	ND	ND	ND
	3/25/2015	3.3	ND	—	36.12	32.82	ND	ND	ND	ND	ND	ND
	9/29/2015	4.73	ND	—	36.12	31.39	ND	ND	ND	ND	ND	ND
MW-2	1/12/2009	4.37	ND	—	35.55	31.18	ND	ND	ND	ND	ND	ND
	4/8/2009	5.05	ND	—	35.55	30.5	ND	ND	ND	ND	ND	ND
	7/8/2009	5.91	ND	—	35.55	29.64	ND	ND	ND	ND	ND	ND
	10/28/2009	4.65	ND	—	35.55	30.9	ND	ND	ND	ND	ND	ND
	4/6/2010	5.24	ND	—	35.55	30.31	ND	ND	ND	ND	ND	ND
	10/6/2010	5.94	ND	—	35.55	29.61	ND	ND	ND	ND	ND	ND
	3/10/2011	4.32	ND	—	35.55	31.23	ND	ND	ND	ND	ND	ND
	9/15/2011	5.99	ND	—	35.55	29.56	ND	ND	ND	ND	ND	ND
	3/15/2012	4.32	ND	—	35.55	31.23	ND	ND	ND	ND	ND	ND
	10/5/2012	6.05	ND	—	35.55	29.5	120Y[e]	ND	ND	ND	ND	ND
	3/1/2013	5.20	ND	—	35.55	30.35	ND	ND	ND	ND	ND	ND
	10/8/2013	5.88	ND	—	35.55	29.67	ND	ND	ND	1.8	ND	ND
	3/17/2014	4.66	ND	—	35.55	30.89	ND	590	ND	ND	ND	ND
	9/24/2014	4.84	ND	—	35.55	30.71	ND	ND	ND	ND	ND	ND
	3/25/2015	5.53	ND	—	35.55	30.02	ND	ND	ND	ND	ND	ND
	9/29/2015	6.08	ND	—	35.5	29.42	ND	ND	ND	ND	ND	ND

Table 1
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AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Depth to SPH (feet)	SPH Thickness (feet)	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	Contaminant					
							TPH-D[b]	TPH-O[b]	Benzene[c]	Toluene[c]	Ethyl benzene[c]	Total Xylene[c]
GCLs							500	500	5	1,000	700	1,000
MW-3	1/12/2009	2.99	ND	—	34.75	31.76	ND	ND	ND	ND	ND	ND
	4/8/2009	3.41	ND	—	34.75	31.34	ND	ND	ND	ND	ND	ND
	7/8/2009	4.37	ND	—	34.75	30.38	ND	ND	ND	ND	ND	ND
	10/28/2009	3.26	ND	—	34.75	31.49	ND	ND	ND	ND	ND	ND
	4/6/2010	3.56	ND	—	34.75	31.19	ND	ND	ND	ND	ND	ND
	10/6/2010	4.25	ND	—	34.75	30.5	ND	ND	ND	ND	ND	ND
	3/10/2011	2.58	ND	—	34.75	32.17	ND	ND	ND	ND	ND	ND
	9/15/2011	4.28	ND	—	34.75	30.47	ND	ND	ND	ND	ND	ND
	3/15/2012	2.49	ND	—	34.75	32.26	ND	ND	ND	ND	ND	ND
	10/5/2012	3.84	ND	—	34.75	30.91	ND	ND	ND	ND	ND	ND
	3/4/2013	3.34	ND	—	34.75	31.41	ND	ND	ND	ND	ND	ND
	10/8/2013	4.00	ND	—	34.75	30.75	ND	ND	ND	ND	ND	ND
	3/17/2014	2.58	ND	—	34.75	32.17	ND	ND	ND	ND	ND	ND
	9/24/2014	3.23	ND	—	34.75	31.52	ND	ND	ND	ND	ND	ND
	3/25/2015	3.60	ND	—	34.75	31.15	ND	ND	ND	ND	ND	ND
	9/29/2015	4.29	ND	—	34.75	30.46	ND	ND	ND	ND	ND	ND
MW-4	1/12/2009	1.56	ND	—	35.26	33.7	ND	ND	ND	ND	ND	ND
	4/8/2009	1.63	ND	—	35.26	33.63	ND	ND	ND	ND	ND	ND
	7/8/2009	2.12	ND	—	35.26	33.14	ND	ND	ND	ND	ND	ND
	10/28/2009	1.79	ND	—	35.26	33.47	ND	ND	ND	ND	ND	ND
	4/6/2010	2.89	ND	—	35.26	34.37	ND	ND	ND	ND	ND	ND
	10/6/2010	1.9	ND	—	35.26	33.36	ND	ND	ND	ND	ND	ND
	3/10/2011	1.23	ND	—	35.26	34.03	ND	ND	ND	ND	ND	ND
	9/15/2011	2.12	ND	—	35.26	33.14	ND	ND	ND	ND	ND	ND
	3/15/2012	1.29	ND	—	35.26	33.97	ND	ND	ND	ND	ND	ND
	10/5/2012	1.75	ND	—	35.26	33.51	ND	ND	ND	ND	ND	ND
	3/4/2013	1.78	ND	—	35.26	33.48	ND	ND	ND	ND	ND	ND
	10/9/2013	1.93	ND	—	35.26	33.33	ND	ND	ND	ND	ND	ND
	3/17/2014	1.15	ND	—	35.26	34.11	ND	760	ND	ND	ND	ND
	9/24/2014	1.84	ND	—	35.26	33.42	ND	ND	ND	ND	ND	ND
	3/25/2015	1.7	ND	—	35.26	33.56	ND	ND	ND	ND	ND	ND
	9/29/2015	2.2	ND	—	35.26	33.06	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Elevation Summary and Analytical Results 2009-2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Depth to SPH (feet)	SPH Thickness (feet)	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	Contaminant					
							TPH-D[b]	TPH-O[b]	Benzene[c]	Toluene[c]	Ethyl benzene[c]	Total Xylene[c]
GCLs							500	500	5	1,000	700	1,000
MW-5	1/12/2009	4.22	ND	—	38.23	34.01	ND	ND	ND	ND	ND	ND
	4/8/2009	4.39	ND	—	38.23	33.84	ND	ND	ND	ND	ND	ND
	7/8/2009	4.98	ND	—	38.23	33.25	ND	ND	ND	ND	ND	ND
	10/28/2009	4.28	ND	—	38.23	33.95	ND	ND	ND	ND	ND	ND
	4/6/2010	5.62	ND	—	38.23	32.61	ND	ND	ND	ND	ND	ND
	10/6/2010	4.5	ND	—	38.23	33.73	ND	ND	ND	ND	ND	ND
	3/11/2011	4.19	ND	—	38.23	34.04	ND	ND	ND	ND	ND	ND
	9/15/2011	4.99	ND	—	38.23	33.24	ND	ND	ND	ND	ND	ND
	3/15/2012	4.19	ND	—	38.23	34.04	ND	ND	ND	ND	ND	ND
	10/5/2012	5.01	ND	—	38.23	33.22	390Y[e]	420Y[e]	ND	ND	ND	ND
	3/4/2013	4.41	ND	—	38.23	33.82	ND	ND	ND	ND	ND	ND
	10/9/2013	4.68	ND	—	38.23	33.55	ND	ND	ND	ND	ND	ND
	3/18/2014	4.22	ND	—	38.23	34.01	ND	470	ND	ND	ND	ND
	9/25/2014	5.01	ND	—	38.23	33.22	ND	ND	ND	ND	ND	ND
	3/25/2015	4.62	ND	—	38.23	33.61	ND	ND	ND	ND	ND	ND
	9/28/2015	4.68	ND	—	38.23	33.55	ND	ND	ND	ND	ND	ND
MW-6	1/12/2009	4.42	ND	—	36.7	32.28	ND	ND	ND	ND	ND	ND
	4/8/2009	4.38	ND	—	36.7	32.32	ND	ND	ND	ND	ND	ND
	7/8/2009	4.7	ND	—	36.7	32	ND	ND	ND	ND	ND	ND
	10/28/2009	4.18	ND	—	36.7	32.52	ND	ND	ND	ND	ND	ND
	4/6/2010	3.95	ND	—	36.7	32.75	ND	ND	ND	ND	ND	ND
	10/6/2010	4.31	ND	—	36.7	32.39	ND	ND	ND	ND	ND	ND
	3/10/2011	3.57	ND	—	36.7	33.13	ND	ND	ND	ND	ND	ND
	9/15/2011	4.73	ND	—	36.7	31.97	ND	ND	ND	ND	ND	ND
	3/15/2012	3.4	ND	—	36.7	33.3	ND	ND	ND	ND	ND	ND
	10/5/2012	4.73	ND	—	36.7	31.97	ND	ND	ND	ND	ND	ND
	3/4/2013	3.68	ND	—	36.7	33.02	ND	ND	ND	ND	ND	ND
	10/9/2013	4.01	ND	—	36.7	32.69	ND	ND	ND	ND	ND	ND
	3/18/2014	3.52	ND	—	36.7	33.18	ND	ND	ND	ND	ND	ND
	9/25/2014	4.68	ND	—	36.7	32.02	ND	ND	ND	ND	ND	ND
	3/25/2015	3.79	ND	—	36.7	32.91	ND	ND	ND	ND	ND	ND
	9/28/2015	4.36	ND	—	36.7	32.34	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Elevation Summary and Analytical Results 2009-2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Monitoring Well Number	Date	Depth to Water (feet)[a]	Depth to SPH (feet)	SPH Thickness (feet)	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	Contaminant					
							TPH-D[b]	TPH-O[b]	Benzene[c]	Toluene[c]	Ethyl benzene[c]	Total Xylene[c]
GCLs							500	500	5	1,000	700	1,000
MW-7	1/12/2009	2.22	ND	—	35.8	33.58	ND	ND	ND	ND	ND	ND
	4/8/2009	2.32	ND	—	35.8	33.48	ND	ND	ND	ND	ND	ND
	7/8/2009	3.16	ND	—	35.8	32.64	ND	ND	ND	ND	ND	ND
	10/28/2009	2.48	ND	—	35.8	33.32	ND	ND	ND	ND	ND	ND
	4/6/2010	2.82	ND	—	35.8	32.98	ND	ND	ND	ND	ND	ND
	10/6/2010	3.16	ND	—	35.8	32.64	ND	ND	ND	ND	ND	ND
	3/11/2011	1.71	ND	—	35.8	34.09	ND	ND	ND	ND	ND	ND
	9/15/2011	3.38	ND	—	35.8	32.42	ND	ND	ND	ND	ND	ND
	3/15/2012	1.38	ND	—	35.8	34.42	ND	ND	ND	ND	ND	ND
	10/5/2012	3.58	ND	—	35.8	32.22	ND	ND	ND	ND	ND	ND
	3/4/2013	2.74	ND	—	35.8	33.06	ND	ND	ND	ND	ND	ND
	10/9/2013	3.25	ND	—	35.8	32.55	ND	ND	ND	ND	ND	ND
	3/18/2014	1.96	ND	—	35.8	33.84	ND	490	ND	ND	ND	ND
	9/24/2014	3.53	ND	—	35.8	32.27	ND	ND	ND	ND	ND	ND
	3/25/2015	2.98	ND	—	35.8	32.82	ND	ND	ND	ND	ND	ND
	9/28/2015	3.62	ND	—	35.8	32.18	ND	ND	ND	ND	ND	ND
MW-8[d]	1/12/2009	4.69	ND	—	38.53	33.84	1,030	ND	86.3	11.7	125	1,000
	4/8/2009	4.88	ND	—	38.53	33.65	2,120	ND	18.4	1.2	54.6	245
	7/8/2009	5.85	ND	—	38.53	32.68	2,290	ND	12	ND	14	59
	10/28/2009	4.78	ND	—	38.53	33.75	1,700	ND	41	1.6	61	157
	4/6/2010	5.24	ND	—	38.53	33.29	2,700	ND	34	1.2	47	139
	10/6/2010	5.26	ND	—	38.53	33.27	2,100	ND	3.7	ND	ND	ND
	3/11/2011	4.65	ND	—	38.53	33.88	1,500	ND	18	ND	43	129
	9/15/2011	5.89	ND	—	38.53	32.64	1,600	ND	ND	21	ND	ND
	3/15/2012	4.61	ND	—	38.53	33.92	2,900Y	ND	11	ND	11	51.3
	10/5/2012	7.39	ND	—	38.53	31.14	2,100Y	570Y[e]	ND	ND	ND	5
	3/1/2013	4.93	ND	—	38.53	33.60	1,800Y	ND	1.1	ND	7	30
	10/9/2013	5.27	ND	—	38.53	33.26	2,200	ND	ND	ND	1.1	ND
	3/18/2014	4.62	ND	—	38.53	33.91	2,900	1300	ND	ND	5.3	3.1
	9/25/2014	5.98	ND	—	38.53	32.55	970	ND	ND	ND	ND	ND
	3/25/2015	5.27	ND	—	38.53	33.26	3,500	ND	ND	ND	1.4	ND
	9/28/2015	5.48	ND	—	38.53	33.05	2,000	ND	ND	ND	ND	ND

Note:

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

SPH = Separate phase hydrocarbon.
GCL = MTCA Method A groundwater cleanup level.

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.

B Compound was found in the blank and sample.

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 sampling data sheets.

b Analyzed by Northwest Method NWTPH-Dx with silica gel cleanup.

c BTEX samples were analyzed by EPA Method 8021B in January and April 2009; by EPA Method 8260B in July and October 2009, April and October 2010, March and October 2012, and March 2013; by SW8260 October 2013.

d Monitoring well was installed January 5, 2009.

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

Table 2
Groundwater Depth/SPH Thickness (Extraction Wells)
Fourth Quarter, 2014
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well	10/2/2014		10/9/2014		10/15/2014		10/23/2014	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	5.25	ND	NM	ND	NM	ND	NM	ND
EW-2	5.14	ND	NM	ND	5.18	ND	NM	ND
EW-3	4.75	ND	4.75	ND	4.84	ND	4.75	ND
EW-4	4.61	ND	4.61	ND	4.63	ND	4.61	ND
EW-5	5.84	ND	4.56	ND	4.55	ND	5.86	ND
EW-6	6.39	ND	6.40	ND	6.39	ND	6.36	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.25	ND	2.89	ND	2.75	ND	2.40	ND

Well	10/30/2014		11/6/2014		11/12/2014		11/19/2014	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	4.30	ND	NM	ND	5.17	ND	5.12	ND
EW-3	3.89	ND	4.72	ND	4.86	ND	4.73	ND
EW-4	3.78	ND	4.61	ND	4.64	ND	4.50	ND
EW-5	3.79	ND	4.50	ND	5.82	ND	4.22	ND
EW-6	4.55	ND	6.39	ND	6.40	ND	4.80	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.13	ND	2.39	ND	2.15	ND	2.62	ND

Well	11/25/2014		12/2/2014		12/11/2014		12/12/2014	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	5.02	ND	3.50	ND	3.50	ND	3.65	ND
EW-3	4.64	ND	3.09	ND	3.09	ND	NM	ND
EW-4	4.36	ND	2.94	ND	2.94	ND	NM	ND
EW-5	4.05	ND	2.93	ND	2.93	ND	NM	ND
EW-6	4.62	ND	3.66	ND	3.66	ND	3.81	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.58	ND	2.65	ND	2.65	ND	NM	ND

Well	12/18/2014		12/26/2014	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND
EW-2	4.51	ND	3.64	ND
EW-3	4.15	ND	3.29	ND
EW-4	3.94	ND	3.08	ND
EW-5	3.79	ND	3.05	ND
EW-6	4.40	ND	3.82	ND
EW-7	NM	ND	NM	ND
EW-8	NM	ND	NM	ND
EW-9	NM	ND	NM	ND
EW-10	2.66	ND	2.50	ND

Notes:
ND= No product detected.
NM=Not Measured
SPH=Seperate Phase Hydrocarbon

Table 3
Groundwater Depth/SPH Thickness (Extraction Wells)
First Quarter, 2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well	1/2/2015		1/6/2015		1/15/2015		1/22/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	3.98	ND	3.75	ND	3.65	ND	3.61	ND
EW-3	3.60	ND	3.39	ND	3.28	ND	3.21	ND
EW-4	3.42	ND	3.23	ND	3.11	ND	3.02	ND
EW-5	3.37	ND	3.19	ND	3.08	ND	NM	ND
EW-6	4.06	ND	3.89	ND	3.82	ND	3.75	0.01
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.62	ND	2.54	ND	2.66	ND	2.63	ND

Well	1/30/2015		2/5/2015		2/13/2015		2/19/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	3.41	ND	3.60	ND	3.27	ND	3.48	ND
EW-3	2.99	ND	3.21	ND	2.83	ND	3.02	ND
EW-4	2.85	ND	3.06	ND	2.69	ND	2.91	ND
EW-5	2.86	ND	3.04	ND	2.69	ND	2.92	ND
EW-6	3.59	0.150	3.79	ND	3.44	ND	3.67	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.69	ND	2.56	ND	2.54	ND	2.64	ND

Well	2/26/2015		3/5/2015		3/12/2015		3/20/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	3.49	ND	3.47	0.010	3.52	ND	3.27	ND
EW-3	3.04	ND	3.07	ND	3.09	ND	2.93	ND
EW-4	2.93	ND	2.93	ND	2.97	ND	2.74	ND
EW-5	2.93	ND	2.92	ND	2.97	ND	2.73	ND
EW-6	3.68	ND	3.66	ND	3.74	ND	NM	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.68	ND	2.72	ND	2.76	ND	2.58	0.01

Well	3/26/2015		3/30/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND
EW-2	4.90	ND	NM	ND
EW-3	4.53	ND	4.58	ND
EW-4	4.21	ND	4.23	ND
EW-5	3.84	ND	3.88	ND
EW-6	4.38	ND	4.49	ND
EW-7	NM	ND	NM	ND
EW-8	NM	ND	NM	ND
EW-9	NM	ND	NM	ND
EW-10	2.64	ND	2.70	ND

Notes:
NA= Measurements not available.
ND= No product detected.
SPH=Seperate Phase Hydrocarbon

Table 4
Groundwater Depth/SPH Thickness (Extraction Wells)
Second Quarter, 2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well	4/7/2015		4/13/2015		4/21/2015		4/28/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	NM	ND	NM	ND	NM	ND	NM	ND
EW-3	4.78	ND	4.73	ND	4.66	ND	4.76	ND
EW-4	4.39	ND	4.32	ND	4.34	ND	4.41	ND
EW-5	4.11	ND	3.87	ND	4.21	ND	4.42	0.01
EW-6	4.59	ND	4.53	ND	4.65	ND	4.55	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	NM	ND	NM	ND	NM	ND	NM	ND

Well	5/7/2015		5/14/2015		5/19/2015		5/26/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	5.10	ND	NM	ND	NM	ND	NM	ND
EW-3	4.65	ND	4.75	ND	4.80	ND	4.79	ND
EW-4	4.41	ND	4.42	ND	4.44	ND	4.44	ND
EW-5	4.04	ND	4.06	ND	4.09	ND	4.09	ND
EW-6	4.54	ND	4.58	ND	4.71	ND	4.62	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.79	ND	NM	ND	NM	ND	NM	ND

Well	6/1/2015		6/11/2015		6/18/2015		6/23/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	NM	ND	5.12	ND	5.13	ND	NM	ND
EW-3	4.85	ND	4.68	ND	4.70	ND	4.71	ND
EW-4	4.47	ND	4.48	ND	4.49	ND	4.49	ND
EW-5	4.14	ND	4.17	ND	4.19	ND	4.21	ND
EW-6	4.69	ND	4.71	0.010	4.76	0.010	4.82	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	NM	ND	2.90	ND	2.90	ND	2.93	ND

Well	6/30/2015	
	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND
EW-2	NM	ND
EW-3	4.70	ND
EW-4	4.51	ND
EW-5	4.23	ND
EW-6	4.79	ND
EW-7	NM	ND
EW-8	NM	ND
EW-9	NM	ND
EW-10	NM	ND

Notes:
NA= Measurements not available.
ND= No product detected.
SPH=Seperate Phase Hydrocarbon

Table 5
Groundwater Depth/SPH Thickness (Extraction Wells)
Third Quarter, 2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Well	7/10/2015		7/17/2015		7/24/2015		7/31/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	5.16	ND	5.14	ND	5.20	ND	5.15	ND
EW-3	4.75	ND	4.73	ND	4.78	ND	4.74	ND
EW-4	4.62	ND	4.61	ND	4.65	ND	4.61	ND
EW-5	4.43	ND	4.43	ND	4.47	ND	4.45	ND
EW-6	4.98	ND	4.98	ND	5.05	ND	5.02	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.54	ND	2.47	ND	2.60	ND	2.51	ND

Well	8/7/2015		8/20/2015		8/31/2015		9/15/2015	
	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness	Depth to Water/SPH	SPH Thickness
EW-1	NM	ND	NM	ND	NM	ND	NM	ND
EW-2	5.15	ND	5.18	ND	5.17	ND	NM	ND
EW-3	4.74	ND	4.76	ND	4.75	ND	4.75	ND
EW-4	4.61	ND	4.63	ND	4.63	ND	4.63	ND
EW-5	4.45	ND	4.48	ND	4.44	ND	4.47	ND
EW-6	5.02	ND	5.03	ND	5.02	ND	5.02	ND
EW-7	NM	ND	NM	ND	NM	ND	NM	ND
EW-8	NM	ND	NM	ND	NM	ND	NM	ND
EW-9	NM	ND	NM	ND	NM	ND	NM	ND
EW-10	2.51	ND	2.52	ND	2.39	ND	NM	ND

Notes:
NA= Measurements not available.
ND= No product detected.
SPH= Seperate Phase Hydrocarbon

Table 6
Groundwater Pumping
Fourth Qauarter 2014, First, Second, and Third Quarters 2015
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

	4th Quarter 2014			1st Quarter 2015		
Month	October	November	December	January	February	March
Gallons Removed	187,321	339,221	507,092	461,010	243,043	159,111
Quarter Total	1,033,634			863,164		
Cumulative Total	1,033,634			1,896,798		

	2nd Quarter 2015			3rd Quarter 2015		
Month	April	May	June	July	August	September
Gallons Removed	223,011	211,858	169,631	75,145	42,103	54,150
Quarter Total	604,500			171,398		
Cumulative Total	2,501,298			2,672,696		

Table 7A
Volume of SPH Removed From Observation Wells/Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Fourth Quarter 2014			
Well	Date	Estimated SPH Pumped (mL)	Total Amount of Water/SPH Removed (mL)
B19	10/2/2014	100.00	1,350.00
	10/10/2014	150.00	450.00
	10/15/2014	75.00	800.00
	10/24/2014	75.00	975.00
	11/12/2014	20.00	1,180.00
	11/19/2014	150.00	1,650.00
	12/4/2014	25.00	875.00
	12/12/2014	30.00	550.00
	12/18/2014	75.00	625.00
	12/26/2014	10.00	930.00
B20	10/2/2014	25.00	900.00
	10/10/2014	100.00	1,650.00
	10/15/2014	50.00	1,225.00
	10/24/2014	25.00	1,725.00
	10/30/2014	25.00	1,900.00
	11/7/2014	100.00	3,350.00
	11/12/2014	70.00	280.00
	12/4/2014	75.00	2,025.00
	12/12/2014	80.00	1,950.00
	12/18/2014	25.00	1,350.00
	12/26/2014	90.00	900.00
OW-2	10/2/2014	175.00	300.00
	10/10/2014	150.00	150.00
	10/24/2014	500.00	500.00
	10/30/2014	200.00	500.00
	11/7/2014	50.00	900.00
	11/12/2014	150.00	540.00
	11/19/2014	100.00	300.00
	12/18/2014	25.00	550.00
	12/26/2014	0.00	345.00
B25	10/15/2014	5.00	150.00
B26	10/2/2014	75.00	1,150.00
	10/10/2014	35.00	265.00
	10/15/2014	50.00	425.00
Total mL		2,890.00	32,715.00
Total gallons		1.34	14.80

Table 7B
Volume of SPH Removed From Observation Wells/Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

First Quarter 2015			
Well	Date	Estimated SPH Pumped (mL)	Total Amount of Water/SPH Removed (mL)
B19	1/2/2015	25.00	1,175.00
	1/6/2015	50.00	1,000.00
	1/15/2015	150.00	1,300.00
	1/22/2015	25.00	875.00
	1/30/2015	20.00	700.00
	2/5/2015	50.00	850.00
	2/13/2015	10.00	980.00
	2/19/2015	40.00	760.00
	2/26/2015	50.00	700.00
	3/5/2015	10.00	725.00
	3/11/2015	30.00	1,000.00
	3/26/2015	25.00	750.00
	3/30/2015	25.00	200.00
B20	1/2/2015	75.00	1,725.00
	1/6/2015	25.00	925.00
	1/15/2015	25.00	1,025.00
	1/22/2015	20.00	1,085.00
	1/30/2015	20.00	1,080.00
	2/13/2015	70.00	1,320.00
	2/19/2015	60.00	1,140.00
	2/26/2015	20.00	800.00
	3/5/2015	20.00	365.00
	3/11/2015	15.00	580.00
	3/26/2015	25.00	400.00
OW-2	1/6/2015	50.00	700.00
	1/15/2015	25.00	375.00
	1/22/2015	25.00	515.00
	1/30/2015	80.00	400.00
	2/5/2015	50.00	250.00
	2/26/2015	25.00	400.00
	3/5/2015	80.00	900.00
	3/11/2015	65.00	320.00
	3/30/2015	25.00	200.00
B26	2/5/2015	25.00	850.00
	2/26/2015	15.00	1,090.00
	3/5/2015	15.00	1,235.00
	3/11/2015	20.00	500.00
	3/26/2015	10.00	900.00
	3/30/2015	25.00	440.00
Total mL		1,420.00	30,535.00
Total gallons		0.62	13.21

Table 7C
Volume of SPH Removed From Observation Wells/Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Second Quarter 2015			
Well	Date	Estimated SPH Pumped (mL)	Total Amount of Water/SPH Removed (mL)
B19	4/7/2015	100.00	600.00
	4/13/2015	100.00	600.00
	4/20/2015	45.00	880.00
	5/7/2015	90.00	610.00
	5/15/2015	25.00	400.00
	5/19/2015	25.00	2,500.00
	6/11/2015	30.00	250.00
	6/18/2015	25.00	290.00
	6/23/2015	10.00	1,000.00
B20	4/7/2015	75.00	700.00
	4/20/2015	15.00	600.00
	5/7/2015	10.00	390.00
	5/15/2015	25.00	400.00
	5/26/2015	15.00	1,000.00
	6/11/2015	20.00	200.00
	6/18/2015	15.00	110.00
OW-2	4/7/2015	25.00	200.00
	4/13/2015	25.00	25.00
	4/20/2015	15.00	15.00
B26	4/13/2015	25.00	1,500.00
	4/20/2015	15.00	360.00
	5/7/2015	10.00	575.00
	5/15/2015	25.00	400.00
	6/11/2015	25.00	810.00
	6/18/2015	10.00	400.00
	6/23/2015	25.00	3,000.00
Total mL		825.00	17,815.00
Total gallons		0.32	7.52

Table 7D
Volume of SPH Removed From Observation Wells/Piezometers
AT&T Data Center
20307 North Creek Pkwy, Bothell, WA

Third Quarter 2015			
Well	Date	Estimated SPH Pumped (mL)	Total Amount of Water/SPH Removed (mL)
B19	7/17/2015	40.00	500.00
	7/24/2015	25.00	360.00
	8/7/2015	50.00	350.00
	8/20/2015	50.00	450.00
	8/31/2015	90.00	500.00
	9/15/2015	75.00	900.00
B20	7/17/2015	25.00	500.00
	7/24/2015	25.00	190.00
	8/7/2015	50.00	400.00
	8/20/2015	25.00	525.00
	8/31/2015	15.00	300.00
	9/15/2015	50.00	750.00
B25	7/10/2015	10.00	225.00
	7/24/2015	15.00	100.00
	8/7/2015	10.00	550.00
	8/20/2015	10.00	250.00
B26	7/10/2015	50.00	775.00
	7/17/2015	15.00	500.00
	7/24/2015	25.00	150.00
	8/7/2015	25.00	200.00
	8/20/2015	75.00	1,275.00
	9/15/2015	75.00	1,250.00
Total mL		830.00	11,000.00
Total gallons		0.35	5.00

Figures

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





APPROX. SCALE

0 1000 2000 FEET

SOURCE: Aerial Image Acquired from Google Map 2011.

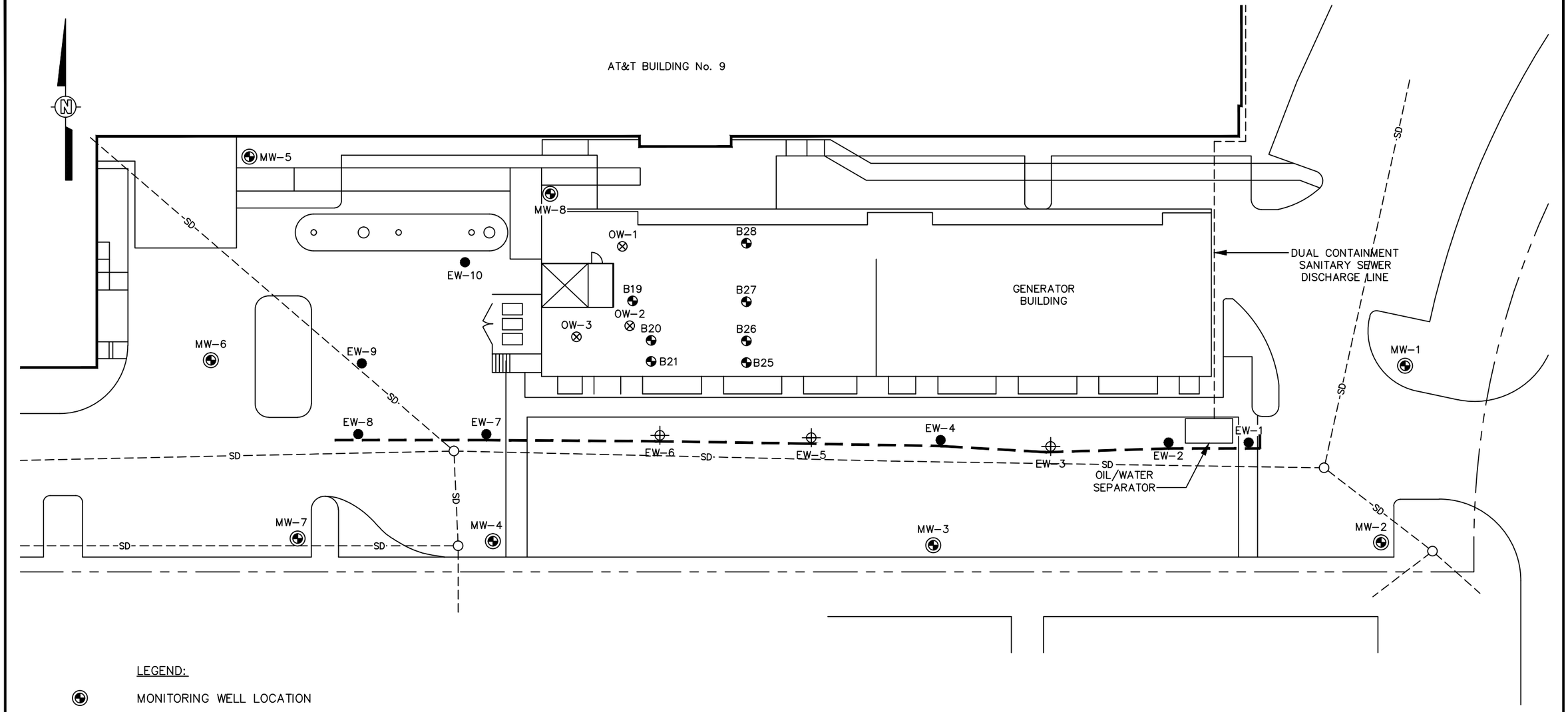
CB&I Environmental & Infrastructure, Inc.
18323 Bothell Everett Highway, Suite 310
Bothell, Washington 98012
(425) 485-5000 Office
(425) 4869766 Fax

FIGURE 1

SITE LOCATION MAP

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

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
- PSC WELL LOCATION
- EXTRACTION WELL WITH PUMP
- PROPERTY LINE
- SD EXISTING STORM DRAIN
- IMPERMEABLE LINER

SCALE (FEET)

0 30 60

CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC.
18323 BOTHELL EVERETT HIGHWAY
BOTHELL, WASHINGTON 98012
(425) 485-5000 OFFICE
(425) 486-9766 FAX

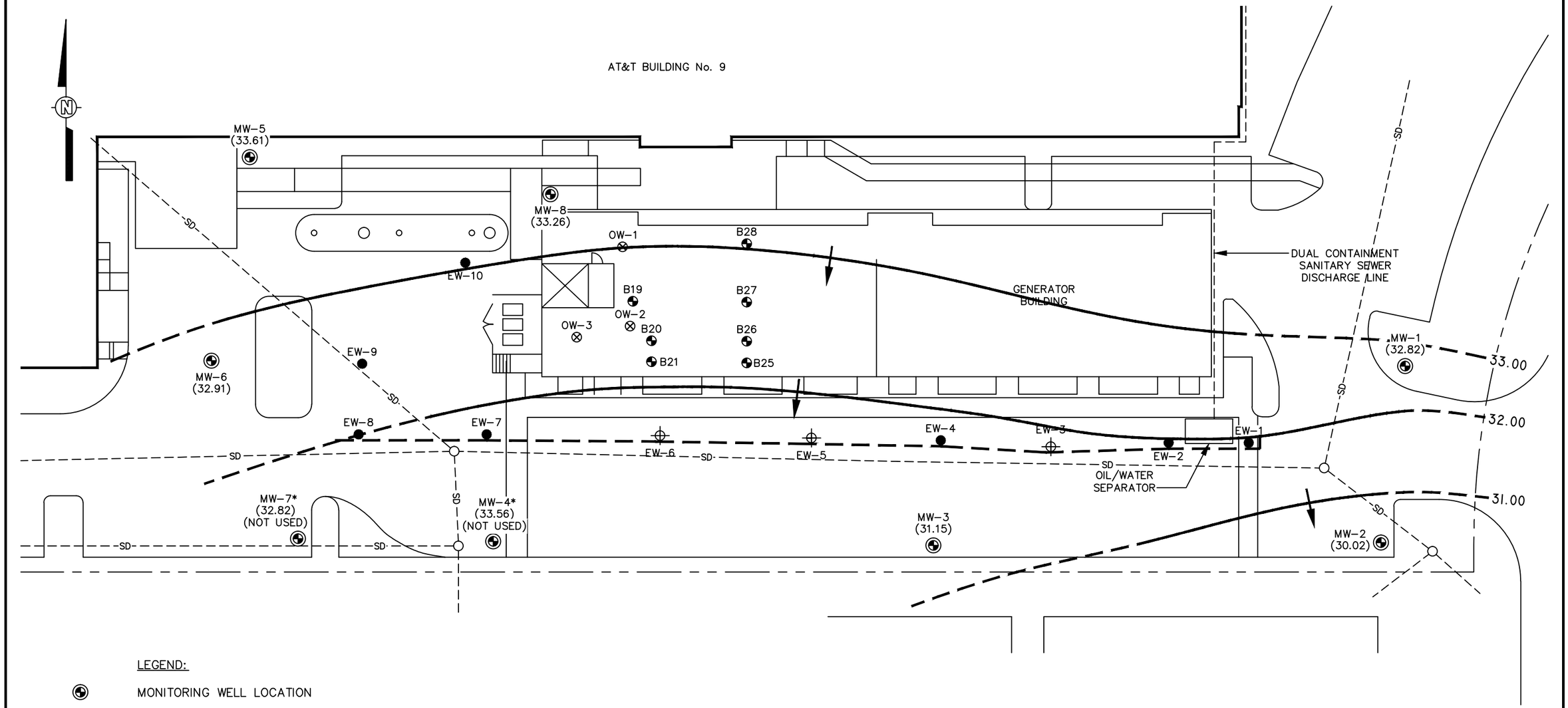
OFFICE:	DATE:	ACAD FILE:
BOTHELL	1-28-16	8859B1

GROUNDWATER MONITORING, EXTRACTION AND OBSERVATION WELL LOCATION MAP

CLIENT:	PM:
AT&T	TO

LOCATION: 20307 NORTH CREEK PARKWAY, BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
TO	SDJF	148859	2



LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PSC WELL LOCATION
- EXTRACTION WELL WITH PUMP
- (32.82) GROUNDWATER ELEVATION (FEET)
- 32.00 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PROPERTY LINE
- * GROUNDWATER ELEVATION FROM THIS WELL WAS NOT USED
- SD EXISTING STORM DRAIN
- IMPERMEABLE LINER

SCALE (FEET)

0 30 60

CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC.
18323 BOTHELL EVERETT HIGHWAY, SUITE 310
BOTHELL, WASHINGTON 98012
(425) 485-5000 OFFICE
(425) 486-9766 FAX

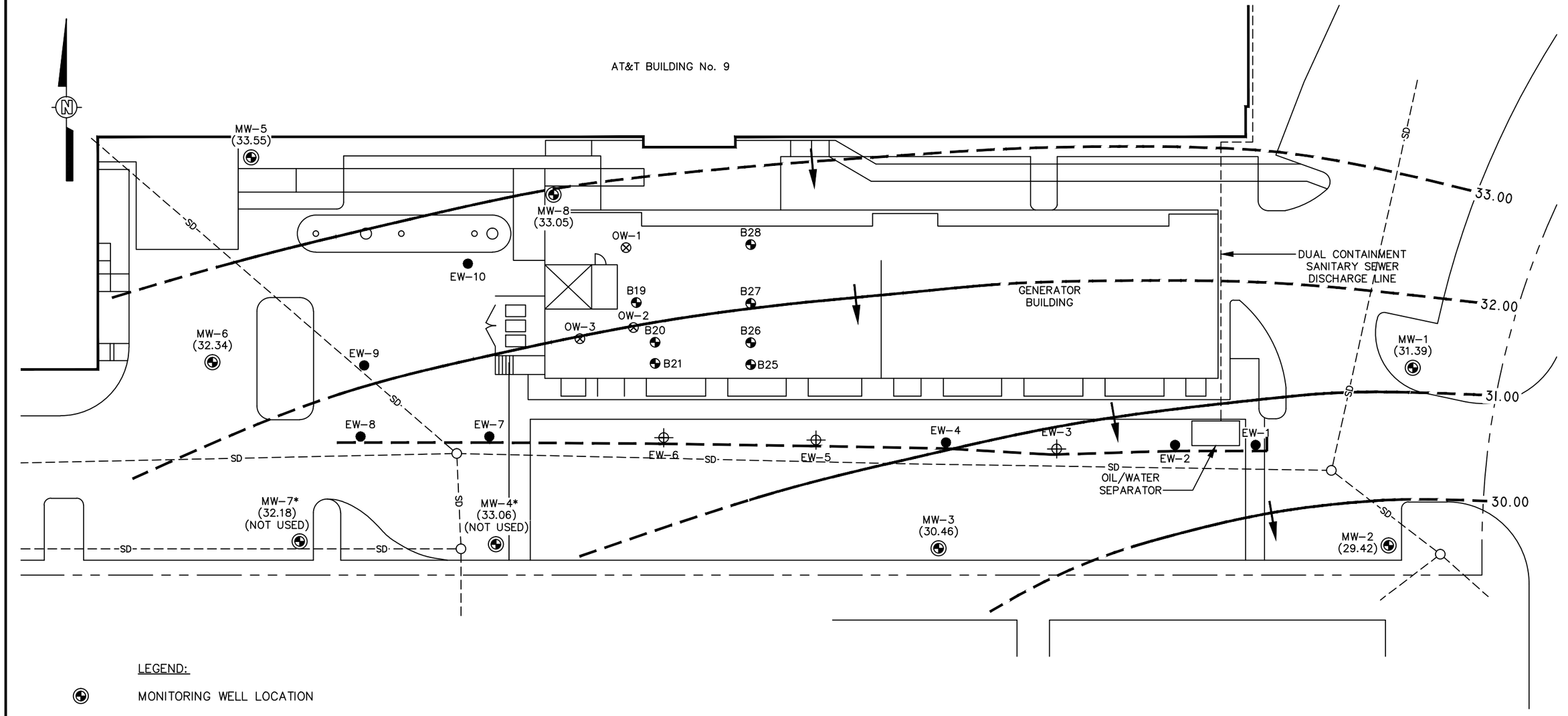
OFFICE:	DATE:	ACAD FILE:
BOTHELL	1-28-16	8859B3

GROUNDWATER ELEVATION CONTOUR MAP MARCH 25, 2015

CLIENT:	PM:
AT&T	TO

LOCATION: 20307 NORTH CREEK PARKWAY, BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
JW	SDJF	148859	3



LEGEND:

- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- OBSERVATION WELL LOCATION
- PSC WELL LOCATION
- EXTRACTION WELL WITH PUMP
- (31.39) GROUNDWATER ELEVATION (FEET)
- 30.00 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PROPERTY LINE
- * GROUNDWATER ELEVATION FROM THIS WELL WAS NOT USED
- SD EXISTING STORM DRAIN
- IMPERMEABLE LINER

SCALE (FEET)

0 30 60

CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC.
18323 BOTHELL EVERETT HIGHWAY, SUITE 310
BOTHELL, WASHINGTON 98012
(425) 485-5000 OFFICE
(425) 486-9766 FAX

OFFICE:	DATE:	ACAD FILE:
BOTHELL	1-28-16	8859B2

GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 28, 2015

CLIENT:	PM:
AT&T	TO

LOCATION: 20307 NORTH CREEK PARKWAY, BOTHELL, WASHINGTON

DESIGNED:	DRAWN:	PROJECT NO.:	FIGURE:
JW	SDJF	148859	4

Appendix A
March 25, 2015, Analytical Reports

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 06, 2015

Tim O'Conner
CB&I
12100 NE 195th St.
Bothell, WA 98011

RE: Project: ATT-Bothell, WA
Pace Project No.: 10300975

Dear Tim O'Conner:
Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Leigh Grover, CB&I
Janna Hall, CB&I

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10300975001	**MW-1**	Water	03/25/15 11:00	03/28/15 09:30
10300975002	**MW-2**	Water	03/25/15 13:30	03/28/15 09:30
10300975003	**MW-3**	Water	03/25/15 16:00	03/28/15 09:30
10300975004	**MW-4**	Water	03/25/15 17:00	03/28/15 09:30
10300975005	**MW-5**	Water	03/25/15 13:20	03/28/15 09:30
10300975006	**MW-6**	Water	03/25/15 14:35	03/28/15 09:30
10300975007	**MW-7**	Water	03/25/15 16:30	03/28/15 09:30
10300975008	**MW-8**	Water	03/25/15 11:30	03/28/15 09:30
10300975009	**MW-18**	Water	03/25/15 11:30	03/28/15 09:30
10300975010	**Effluent**	Water	03/25/15 17:00	03/28/15 09:30
10300975011	**Trip Blank**	Water	03/25/15 00:00	03/28/15 09:30

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SAMPLE ANALYTE COUNT

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10300975001	**MW-1**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975002	**MW-2**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975003	**MW-3**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975004	**MW-4**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975005	**MW-5**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975006	**MW-6**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975007	**MW-7**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975008	**MW-8**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975009	**MW-18**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7
10300975010	**Effluent**	NWTPH-Dx	JRH	4
		EPA 8260	DJB	7

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ANALYTICAL RESULTS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Sample: MW-1 **Lab ID: 10300975001** Collected: 03/25/15 11:00 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx	Preparation Method: EPA 3510						
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 14:32	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 14:32	64742-65-0	
Surrogates								
o-Terphenyl (S)	66	%.	50-150	1	04/02/15 13:29	04/04/15 14:32	84-15-1	
n-Triacontane (S)	76	%.	50-150	1	04/02/15 13:29	04/04/15 14:32	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 11:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 11:45	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 11:45	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 11:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	75-125	1		04/01/15 11:45	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		04/01/15 11:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		04/01/15 11:45	460-00-4	

Sample: MW-2 **Lab ID: 10300975002** Collected: 03/25/15 13:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx	Preparation Method: EPA 3510						
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 14:54	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 14:54	64742-65-0	
Surrogates								
o-Terphenyl (S)	72	%.	50-150	1	04/02/15 13:29	04/04/15 14:54	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	04/02/15 13:29	04/04/15 14:54	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 12:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 12:18	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 12:18	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 12:18	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		04/01/15 12:18	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		04/01/15 12:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		04/01/15 12:18	460-00-4	

Sample: MW-3 **Lab ID: 10300975003** Collected: 03/25/15 16:00 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx	Preparation Method: EPA 3510						
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:15	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:15	64742-65-0	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Sample: MW-3 **Lab ID: 10300975003** Collected: 03/25/15 16:00 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Surrogates								
o-Terphenyl (S)	65	%.	50-150	1	04/02/15 13:29	04/04/15 15:15	84-15-1	
n-Triacontane (S)	73	%.	50-150	1	04/02/15 13:29	04/04/15 15:15	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 12:34	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 12:34	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 12:34	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 12:34	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		04/01/15 12:34	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		04/01/15 12:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		04/01/15 12:34	460-00-4	

Sample: MW-4 **Lab ID: 10300975004** Collected: 03/25/15 17:00 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 17:03	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 17:03	64742-65-0	
Surrogates								
o-Terphenyl (S)	77	%.	50-150	1	04/02/15 13:29	04/04/15 17:03	84-15-1	
n-Triacontane (S)	89	%.	50-150	1	04/02/15 13:29	04/04/15 17:03	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 12:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 12:50	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 12:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 12:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	75-125	1		04/01/15 12:50	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		04/01/15 12:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		04/01/15 12:50	460-00-4	

Sample: MW-5 **Lab ID: 10300975005** Collected: 03/25/15 13:20 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND	mg/L	0.42	1	04/02/15 13:29	04/04/15 17:25	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.42	1	04/02/15 13:29	04/04/15 17:25	64742-65-0	
Surrogates								
o-Terphenyl (S)	78	%.	50-150	1	04/02/15 13:29	04/04/15 17:25	84-15-1	
n-Triacontane (S)	90	%.	50-150	1	04/02/15 13:29	04/04/15 17:25	638-68-6	

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ANALYTICAL RESULTS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Sample: MW-5 **Lab ID: 10300975005** Collected: 03/25/15 13:20 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 13:06	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 13:06	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 13:06	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 13:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	75-125	1		04/01/15 13:06	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1		04/01/15 13:06	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		04/01/15 13:06	460-00-4	

Sample: MW-6 **Lab ID: 10300975006** Collected: 03/25/15 14:35 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:37	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:37	64742-65-0	
Surrogates								
o-Terphenyl (S)	69	%.	50-150	1	04/02/15 13:29	04/04/15 15:37	84-15-1	
n-Triacontane (S)	79	%.	50-150	1	04/02/15 13:29	04/04/15 15:37	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 13:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 13:23	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 13:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 13:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%.	75-125	1		04/01/15 13:23	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		04/01/15 13:23	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		04/01/15 13:23	460-00-4	

Sample: MW-7 **Lab ID: 10300975007** Collected: 03/25/15 16:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:58	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 15:58	64742-65-0	
Surrogates								
o-Terphenyl (S)	75	%.	50-150	1	04/02/15 13:29	04/04/15 15:58	84-15-1	
n-Triacontane (S)	87	%.	50-150	1	04/02/15 13:29	04/04/15 15:58	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 13:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 13:39	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 13:39	108-88-3	

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ANALYTICAL RESULTS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Sample: MW-7 **Lab ID: 10300975007** Collected: 03/25/15 16:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 13:39	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%.	75-125	1		04/01/15 13:39	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1		04/01/15 13:39	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		04/01/15 13:39	460-00-4	

Sample: MW-8 **Lab ID: 10300975008** Collected: 03/25/15 11:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	**3.5**	mg/L	0.40	1	04/02/15 13:29	04/04/15 16:20	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 16:20	64742-65-0	
Surrogates								
o-Terphenyl (S)	79	%.	50-150	1	04/02/15 13:29	04/04/15 16:20	84-15-1	
n-Triacontane (S)	86	%.	50-150	1	04/02/15 13:29	04/04/15 16:20	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 13:55	71-43-2	
Ethylbenzene	**1.4**	ug/L	1.0	1		04/01/15 13:55	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 13:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 13:55	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	75-125	1		04/01/15 13:55	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		04/01/15 13:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		04/01/15 13:55	460-00-4	

Sample: MW-18 **Lab ID: 10300975009** Collected: 03/25/15 11:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	**3.2**	mg/L	0.40	1	04/02/15 13:29	04/04/15 16:42	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 16:42	64742-65-0	
Surrogates								
o-Terphenyl (S)	76	%.	50-150	1	04/02/15 13:29	04/04/15 16:42	84-15-1	
n-Triacontane (S)	84	%.	50-150	1	04/02/15 13:29	04/04/15 16:42	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 14:12	71-43-2	
Ethylbenzene	**1.3**	ug/L	1.0	1		04/01/15 14:12	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 14:12	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 14:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%.	75-125	1		04/01/15 14:12	17060-07-0	

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ANALYTICAL RESULTS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Sample: MW-18 **Lab ID: 10300975009** Collected: 03/25/15 11:30 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	96	%.	75-125	1		04/01/15 14:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		04/01/15 14:12	460-00-4	

Sample: Effluent **Lab ID: 10300975010** Collected: 03/25/15 17:00 Received: 03/28/15 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	**0.61**	mg/L	0.40	1	04/02/15 13:29	04/04/15 13:49	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	04/02/15 13:29	04/04/15 13:49	64742-65-0	
Surrogates								
o-Terphenyl (S)	75	%.	50-150	1	04/02/15 13:29	04/04/15 13:49	84-15-1	
n-Triacontane (S)	88	%.	50-150	1	04/02/15 13:29	04/04/15 13:49	638-68-6	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/01/15 14:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/01/15 14:28	100-41-4	
Toluene	ND	ug/L	1.0	1		04/01/15 14:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/01/15 14:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	75-125	1		04/01/15 14:28	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1		04/01/15 14:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		04/01/15 14:28	460-00-4	

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QUALITY CONTROL DATA

Project: ATT-Bothell, WA
Pace Project No.: 10300975

QC Batch: MSV/30953 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10300975001, 10300975002, 10300975003, 10300975004, 10300975005, 10300975006, 10300975007, 10300975008, 10300975009, 10300975010

METHOD BLANK: 1929473 Matrix: Water
Associated Lab Samples: 10300975001, 10300975002, 10300975003, 10300975004, 10300975005, 10300975006, 10300975007, 10300975008, 10300975009, 10300975010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/01/15 10:07	
Ethylbenzene	ug/L	ND	1.0	04/01/15 10:07	
Toluene	ug/L	ND	1.0	04/01/15 10:07	
Xylene (Total)	ug/L	ND	3.0	04/01/15 10:07	
1,2-Dichloroethane-d4 (S)	%.	89	75-125	04/01/15 10:07	
4-Bromofluorobenzene (S)	%.	100	75-125	04/01/15 10:07	
Toluene-d8 (S)	%.	97	75-125	04/01/15 10:07	

LABORATORY CONTROL SAMPLE: 1929474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.3	102	71-125	
Ethylbenzene	ug/L	20	20.6	103	75-125	
Toluene	ug/L	20	20.5	103	74-125	
Xylene (Total)	ug/L	60	61.6	103	75-125	
1,2-Dichloroethane-d4 (S)	%.			91	75-125	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			97	75-125	

MATRIX SPIKE SAMPLE: 1929548

Parameter	Units	10300853001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	<0.15	20	22.6	113	53-139	
Ethylbenzene	ug/L	<0.16	20	21.5	107	55-139	
Toluene	ug/L	<0.11	20	22.2	110	52-148	
Xylene (Total)	ug/L	<0.40	60	64.0	107	54-144	
1,2-Dichloroethane-d4 (S)	%.				95	75-125	
4-Bromofluorobenzene (S)	%.				99	75-125	
Toluene-d8 (S)	%.				97	75-125	

SAMPLE DUPLICATE: 1929547

Parameter	Units	10300975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: ATT-Bothell, WA
Pace Project No.: 10300975

SAMPLE DUPLICATE: 1929547

Parameter	Units	10300975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene	ug/L	ND	.24J		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	90	90	1		
4-Bromofluorobenzene (S)	%.	99	100	0		
Toluene-d8 (S)	%.	97	97	0		

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QUALITY CONTROL DATA

Project: ATT-Bothell, WA
Pace Project No.: 10300975

QC Batch: OEXT/28738 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10300975001, 10300975002, 10300975003, 10300975004, 10300975005, 10300975006, 10300975007, 10300975008, 10300975009, 10300975010

METHOD BLANK: 1930726 Matrix: Water
Associated Lab Samples: 10300975001, 10300975002, 10300975003, 10300975004, 10300975005, 10300975006, 10300975007, 10300975008, 10300975009, 10300975010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	04/04/15 12:01	
Motor Oil Range SG	mg/L	ND	0.40	04/04/15 12:01	
n-Triacontane (S)	%.	76	50-150	04/04/15 12:01	
o-Terphenyl (S)	%.	71	50-150	04/04/15 12:01	

LABORATORY CONTROL SAMPLE & LCSD: 1930727 1930728

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.6	1.5	81	76	50-150	6	20	
Motor Oil Range SG	mg/L	2	1.9	1.8	95	91	50-150	4	20	
n-Triacontane (S)	%.				83	74	50-150			
o-Terphenyl (S)	%.				82	75	50-150			

SAMPLE DUPLICATE: 1930729

Parameter	Units	10300973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	0.67	0.54	22	30	
Motor Oil Range SG	mg/L	ND	.28J		30	
n-Triacontane (S)	%.	86	82	5		
o-Terphenyl (S)	%.	76	70	7		

SAMPLE DUPLICATE: 1930730

Parameter	Units	10300975010 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	0.61	0.66	8	30	
Motor Oil Range SG	mg/L	ND	.22J		30	
n-Triacontane (S)	%.	88	87	0		
o-Terphenyl (S)	%.	75	78	4		

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QUALIFIERS

Project: ATT-Bothell, WA
Pace Project No.: 10300975

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.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: GCSV/15394

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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METHOD CROSS REFERENCE TABLE

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Parameter	Matrix	Analytical Method	Preparation Method
8260 MSV UST	Water	SW-846 8260B/5030B	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ATT-Bothell, WA
Pace Project No.: 10300975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10300975001	**MW-1**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975002	**MW-2**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975003	**MW-3**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975004	**MW-4**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975005	**MW-5**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975006	**MW-6**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975007	**MW-7**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975008	**MW-8**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975009	**MW-18**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975010	**Effluent**	EPA 3510	OEXT/28738	NWTPH-Dx	GCSV/15394
10300975001	**MW-1**	EPA 8260	MSV/30953		
10300975002	**MW-2**	EPA 8260	MSV/30953		
10300975003	**MW-3**	EPA 8260	MSV/30953		
10300975004	**MW-4**	EPA 8260	MSV/30953		
10300975005	**MW-5**	EPA 8260	MSV/30953		
10300975006	**MW-6**	EPA 8260	MSV/30953		
10300975007	**MW-7**	EPA 8260	MSV/30953		
10300975008	**MW-8**	EPA 8260	MSV/30953		
10300975009	**MW-18**	EPA 8260	MSV/30953		
10300975010	**Effluent**	EPA 8260	MSV/30953		

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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: of

1845058

Section A Required Client Information:

Company: CB&I
Address: 18323 Bothell-Everett Hwy Bothell, WA 98012 Suite 310
Email To: tim.cobine@cbi.com
Phone: (206) 290-3094 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information: 10300975

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 33093 #1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB 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	Dx w/ SIC	BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			3-25-15	1100		5				5						2	3			001
2	MW-2	WT	G			3-25-15	1330		5				5						2	3			002
3	MW-3	WT	G			3-25-15	1600		5				5						2	3			003
4	MW-4	WT	G			3-25-15	1700		5				5						2	3			004
5	MW-5	WT	G			3-25-15	1320		5				5						2	3			005
6	MW-6	WT	G			3-25-15	1435		5				5						2	3			006
7	MW-7	WT	G			3-25-15	1630		5				5						2	3			007
8	MW-8	WT	G			3-25-15	1130		5				5						2	3			008
9	MW-10	WT	G			3-25-15	1130		5				5						2	3			009
10	Effluent	WT	G			3-25-15	1700		5				5						2	3			010
11																							
12	Trip Blank	WT							2	2													HOLD DO NOT Analyze 011

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brian Kiar / CB&I	3-27-15	0914	FNF	3-27-15	9:15	4.8	Y	N	Y
	Jenni Enss / Pace	3/27/15	11:00	Pace	3/28/15	9:30	4.4 4.6	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Feb2014 Page 1 of 1
	Document No.: F-MN-L-213-rev.09	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace - WA

Project #: WO# : 10300975

10300975

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

Tracking Number: 5779 5333 2062 9051

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: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ B88A9130516413 ☒ B88A912167504 ☐ B88A9132521491 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.2, 4.3 **Cooler Temp Corrected (°C):** 4.4, 4.5 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.2 **Date and Initials of Person Examining Contents:** DW 3/28/15

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☒ Yes	☐ No	☐ N/A	6. 63 day hold on soils
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.
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) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☒ N/A	Sample #
	☑ 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.
Trip Blank Custody Seals Present? Pace Trip Blank Lot # (if purchased): N/A	☒ Yes	☐ No	☐ N/A	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☑ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Erin Gross **Date:** 3/30/15

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 B
March 25, 2015, Field Sampling Data Sheets

FIELD SAMPLING DATA SHEET

FW-3 2 10:15 FW-10 2.62 154113.2002/310

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

FW -

PROJECT NAME: AT&T WELL ID: MW-1

SITE ADDRESS: [redacted] NORAC Creek PARKway BLIND ID: —

Bothell, WA DUP ID: — NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 60 .	°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)
3/25/15	9:40	.	.	3.34	.	.	X 1	.
3/25/18	08:48	.	.	3.30	.		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

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	3/25/15	11:00	G	3	40 ml / HCl	YES	NO		
Amber Glass	3/25/15	11:00	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 [X]
AMBER - Glass	(8080) (8150) (TOX) NWTPH Dx w/ SGC OR [ ] WA [X]
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: 9:52 Pump/Bailer Inlet Depth: 4.34 NTU

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
0	B	0.00	6.09	-98	.491 ms/cm	10.76	3.34	0.0	clear
10:45	B	1.5	6.11	-88	.499 ms/cm	10.88	4.30	0.88	clear
10:52	B	3.	6.26	-49	.427 ms/cm	11.00	5.31	0.39	clear
10:46	B	4.0	6.30	-21	.439	11.02	6.40	1.03	clear
11:40	B	4.5	6.29	-53	.435	11.50	6.40	1.02	"
11:50	B	5.	6.36	-53	.420	11.59	6.40	1.03	"
6			.			.	.	.	

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

slow pump

TDS .285 2.0 2.6

SAMPLER: TIM O'CONNOR (PRINTED NAME) (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 **WELL ID:** MW-2

SITE ADDRESS: **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)
3/25/15	11:55	.	.	5.57	.	.	X 1	.
3/25/15	08:51	.	.	5.53	.		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: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	3/25/15	13:30	G	3	40 ml	HCl	YES	NO	✓
Amber Glass	3/25/15	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): 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 [X]
AMBER - Glass	(8080) (8150) (TOX) NWTPH-Dx w/SGC OR [ ] WA [X]
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: 11:55 Pump/Bailer Inlet Depth: 7 TURB NTU

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality	
0	B	0.00	6.14	21	.244	10.45	6.85	5.20	Clear No Sheen	12.9
1	B	1.75	6.10	11	.244	10.54	7.91	1.49	" , Slight Sheen	53.8
2	B	2.5	6.13	16	.258	10.65	8.41	0.28	"	104
3	B	3.5	6.01	5	.203	10.75	8.68	.42	"	
4	B	4.0	6.07	-2	.267	11.06	8.87	4.19		
5	B	5.0	6.10	-3	.269	11.12	8.88	0.09	" "	103
6			.			.	.	.		

1243 1257

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

SAMPLER: Tim O'Connor (PRINTED NAME) (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 **WELL ID:** MW-3

SITE ADDRESS: 20307 North Creek Pkwy **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)
3/25/15	3:00	.	.	3.68	.	.	X 1	.
3/25/15	08:55	.	.	3.60	.		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 = Turbine

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	3/25/15	16:00	B	3 40 ml	(HCl)	(YES)	(NO)		
Amber Glass	3/25/15	16:00	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 [X]
AMBER - Glass	(8080) (8150) (TOX) NWTPH-DX w/SGC OR [ ] WA [X]
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: : 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	B	0.00	6.34	-28	.317 mS/cm	11.66	3.68	10.74	Clear
3:12 1	B	2.	6.09	-36	.319 mS/cm	10.57	3.86	3.20	"
3:22 2	B	3.	6.07	-39	.318	10.45	3.86	0.	"
3:34 3	B	4.	6.03	-19	.314	10.43	3.86	0.	"
3:47 4	B	5.	6.02	-25	.314	10.42	3.88	0.	"
5		.	.			.	.	.	
6			.			.	.	.	

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

NTU: 2.7, 1.0, INT, INT

NOT WORKING

SAMPLER: Tim Flannery (PRINTED NAME) (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: Att Bothell **WELL ID:** MW-4

SITE ADDRESS: **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)
3/25/14	4:10	.	.	1.65	.	.	X 1	.
3/25/15	08:58	.	.	1.70	.		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: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	3/25/15	17:00	B	3 40 ml	HCl	YES	NO		
Amber Glass	3/25/15	17:00	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) NWTPH DX w/ SG 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)
	NOT WORKING

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth: 7

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality	NTU
0	B	0.00	6.35	52	.259 ms/cm	12.19	1.65	0.	clear	23
421 1	B	2.	6.37	42	.259	12.59	4.28	0.	clear	1.9
435 2	B	3.	6.39	45	.259	12.77	4.72	0.	clear.	
3	B	4.5	.			.	.	.		
4		.	.			.	.	.		
5		.	.			.	.	.		
6		.	.			.	.	.		

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

SAMPLER: Tim Connor (PRINTED NAME) (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 Data Center **WELL ID:** MW5 (near Window)

SITE ADDRESS: Bothell, WA **BLIND ID:** —

DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		(CLOUDY)		(Lt. 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)
03/25/15	09:09	.	.	4.62	.	.	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: 7.00

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	03/25/15	13:20	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	03/25/15	13:20	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 [X]
AMBER - Glass	(8080) (8150) (TOX) NWTPH-Dx w/SGC OR [ ] WA [X]
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: 12:27 Pump/Bailer Inlet Depth: 7.00

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1230 0	B	0.00	6.75	-68	477	13.07	4.64	0.00	10.1 NTU; Ø color
1248 1	B	1.00	6.82	-108	469	13.57	5.21	0.00	3.1 NTU; Ø color
1259 2	B	1.75	6.77	-113	468	13.60	5.39	0.00	1.7 NTU; Ø color
1311 3	B	2.25	6.66	-112	477	13.68	5.54	0.00	2.6 NTU; Ø color
1319 4	B	2.75	6.57	-109	483	13.73	5.67	0.00	3.9 NTU; Ø color
5		.	.			.	.	.	
6			.			.	.		

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

Not working

SAMPLER: Bruce Kwan (PRINTED NAME) Bruce Kwan (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 Data Center **WELL ID:** MW6
SITE ADDRESS: Bothell, WA **BLIND ID:** —
DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		(CLOUDY)		(LT 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)
03/25/15	09:05	.	.	3.79	.	.	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: 7.00 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	03/25/15	14:35	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	03/25/15	14:35	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) BTEX OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX) Dx w/SGC OR [ ] WA [X]
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: 13:53 3.81 Pump/Bailer Inlet Depth: 7.00

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1358 0	G	0.00	6.07	-60	~~383~~ 383	13.35	3.81	0.00	1.5 NTU; Ø color
1402 1	B	0.75	6.10	-66	380	13.42	4.29	0.00	1.8 NTU; Ø color
1415 2	B	1.50	6.13	-74	360	13.47	4.67	0.00	2.4 NTU; Ø color
1429 3	B	2.50	6.13	-75	361	13.45	5.19	0.00	3.3 NTU; Ø color
1436 4	B	3.00	6.12	-74	367	13.42	5.43	0.00	5.3 NTU; Ø color
5		.	.			.	.	.	
6		.	.			.	.	↑ not working	

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

JM

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 Data Center **WELL ID:** MW7
SITE ADDRESS: Bothell, WA **BLIND ID:** —
DUP ID: — **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		4. 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)
03/25/15	09:01	.	.	2.98	.	.	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: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	03/25/15	16:30	G	3	(40 ml)	(YES)	(NO)		
Amber Glass	03/25/15	16:30	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 [X]
AMBER - Glass	(8080) (8150) (TOX) NWTPH-Dx w/SGC OR [ ] WA [X]
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: 15:39 Pump/Bailer Inlet Depth: 7.00

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1542 0	B	0.00	6.49	-34	220	12.83	2.92	0.17	7.9 NTU; Ø color
1549 1	B	0.75	6.41	-70	219	12.25	3.64	0.00	6.9 NTU; Ø color
1556 2	B	1.50	6.41	-76	214	12.19	4.02	0.00	4.6 NTU; Ø color
1610 3	B	2.25	6.42	-81	205	12.15	4.50	0.00	2.7 NTU; Ø color
1621 4	B	2.75	6.45	-87	205	12.11	4.89	0.00	2.0 NTU; Ø color
5		.	.			.	.	.	
6			.			.	.	.	

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

? not working

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

FIELD SAMPLING DATA SHEET

CBI

Project #: 154113.2002.1310

18323 Bothell Everett Hwy., Suite 310
Bothell, WA 98012

Office: (425) 485-5000 Fax: (425) 486-9766

PROJECT NAME: AT&T Data Center **WELL ID:** MW8

SITE ADDRESS: Bothell, WA **BLIND ID:** ~~MW8~~

DUP ID: MW8 **NA**

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		Lt. 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)
03/25/15	09:12	.	.	5.28	.	.	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: 7.28 [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	03/25/15	11:30	G	36	40 ml	(HCl)	(YES)	(NO)	No	
Amber Glass	03/25/15	11:30	B	24	(250, 500, 1L)	(None) (HCl) (H_2SO_4)	(YES)	(NO)	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) BTEX OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX) DxW SGC OR [ ] WA [X]
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: 10:17 Pump/Bailer Inlet Depth: 7.28

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1022	0	B	0.00	6.18	-84	904	11.87	5.28	0.00	13.7 NTU; Ø color
1040	1	B	1.00	6.33	-113	936	11.99	6.22	0.00	9.6 NTU; sheen bio
1054	2	B	1.50	6.49	-120	971	12.02	6.62	0.00	9.1 NTU; bio
1108	3	B	2.00	6.44	-124	975	11.99	6.97	0.00	6.6 NTU; bio
1116	4	B	2.75	6.43	-125	956	12.10	7.28	0.00	6.6 NTU; bio
	5		.	.			.	.	.	
	6		.	.			.	.	↑ not working	

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

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

Appendix C
September 28 and 29, 2015, Analytical Reports

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

October 13, 2015

Tim O'Conner
CB&I
12100 NE 195th St.
Bothell, WA 98011

RE: Project: AT&T Bothell
Pace Project No.: 10324282

Dear Tim O'Conner:
Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Leigh Grover, CB&I
Janna Hall, CB&I

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: AT&T Bothell
Pace Project No.: 10324282

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Davis Cerification IDs

2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-14a
California Certification #: 08263CA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: AT&T Bothell
Pace Project No.: 10324282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10324282001	**MW8**	Water	09/28/15 12:25	09/30/15 10:00
10324282002	**MW5**	Water	09/28/15 15:15	09/30/15 10:00
10324282003	**MW6**	Water	09/28/15 16:30	09/30/15 10:00
10324282004	**MW7**	Water	09/28/15 17:50	09/30/15 10:00
10324282005	**MW4**	Water	09/29/15 09:45	09/30/15 10:00
10324282006	**MW3**	Water	09/29/15 11:00	09/30/15 10:00
10324282007	**MW2**	Water	09/29/15 12:15	09/30/15 10:00
10324282008	**MW1**	Water	09/29/15 13:45	09/30/15 10:00
10324282009	**Effluent**	Water	09/29/15 14:30	09/30/15 10:00
10324282010	**MW 13**	Water	09/29/15 11:15	09/30/15 10:00

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: AT&T Bothell
Pace Project No.: 10324282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10324282001	**MW8**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	JRH	4	PASI-M
10324282002	**MW5**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282003	**MW6**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282004	**MW7**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282005	**MW4**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282006	**MW3**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282007	**MW2**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282008	**MW1**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282009	**Effluent**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M
10324282010	**MW 13**	EPA 8260B	MJY	7	PASI-DAV
		EPA 8260B	MJY	7	PASI-DAVI
		NWTPH-Dx	MT	4	PASI-M

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: AT&T Bothell
Pace Project No.: 10324282

Sample: MW8 **Lab ID: 10324282001** Collected: 09/28/15 12:25 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 09:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 09:51	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 09:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 09:51	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	70-130	1		10/07/15 09:51	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		10/07/15 09:51	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130	1		10/07/15 09:51	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	**2.0**	mg/L	0.40	1	10/08/15 13:05	10/09/15 14:39	68334-30-5	L2
Motor Oil Range SG	ND	mg/L	0.40	1	10/08/15 13:05	10/09/15 14:39	64742-65-0	L2
Surrogates								
o-Terphenyl (S)	67	%.	50-150	1	10/08/15 13:05	10/09/15 14:39	84-15-1	P2
n-Triacontane (S)	65	%.	50-150	1	10/08/15 13:05	10/09/15 14:39	638-68-6	

Sample: MW5 **Lab ID: 10324282002** Collected: 09/28/15 15:15 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 12:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 12:20	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 12:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 12:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	70-130	1		10/07/15 12:20	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		10/07/15 12:20	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130	1		10/07/15 12:20	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 18:41	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 18:41	64742-65-0	
Surrogates								
o-Terphenyl (S)	91	%.	50-150	1	10/12/15 11:16	10/12/15 18:41	84-15-1	
n-Triacontane (S)	78	%.	50-150	1	10/12/15 11:16	10/12/15 18:41	638-68-6	

Sample: MW6 **Lab ID: 10324282003** Collected: 09/28/15 16:30 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 12:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 12:45	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 12:45	108-88-3	

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ANALYTICAL RESULTS

Project: AT&T Bothell
Pace Project No.: 10324282

Sample: MW6 **Lab ID: 10324282003** Collected: 09/28/15 16:30 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 12:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1		10/07/15 12:45	17060-07-0	
Toluene-d8 (S)	103	%.	70-130	1		10/07/15 12:45	2037-26-5	
4-Bromofluorobenzene (S)	114	%.	70-130	1		10/07/15 12:45	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.43	1	10/12/15 11:16	10/12/15 19:02	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.43	1	10/12/15 11:16	10/12/15 19:02	64742-65-0	
Surrogates								
o-Terphenyl (S)	96	%.	50-150	1	10/12/15 11:16	10/12/15 19:02	84-15-1	
n-Triacontane (S)	81	%.	50-150	1	10/12/15 11:16	10/12/15 19:02	638-68-6	

Sample: MW7 **Lab ID: 10324282004** Collected: 09/28/15 17:50 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 13:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 13:10	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 13:10	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 13:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1		10/07/15 13:10	17060-07-0	
Toluene-d8 (S)	98	%.	70-130	1		10/07/15 13:10	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130	1		10/07/15 13:10	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.43	1	10/12/15 11:16	10/12/15 19:24	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.43	1	10/12/15 11:16	10/12/15 19:24	64742-65-0	
Surrogates								
o-Terphenyl (S)	83	%.	50-150	1	10/12/15 11:16	10/12/15 19:24	84-15-1	
n-Triacontane (S)	70	%.	50-150	1	10/12/15 11:16	10/12/15 19:24	638-68-6	

Sample: MW4 **Lab ID: 10324282005** Collected: 09/29/15 09:45 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 13:35	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 13:35	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 13:35	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 13:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1		10/07/15 13:35	17060-07-0	

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ANALYTICAL RESULTS

Project: AT&T Bothell
Pace Project No.: 10324282

Sample: MW4 **Lab ID: 10324282005** Collected: 09/29/15 09:45 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Surrogates								
Toluene-d8 (S)	104	%.	70-130	1		10/07/15 13:35	2037-26-5	
4-Bromofluorobenzene (S)	114	%.	70-130	1		10/07/15 13:35	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 19:46	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 19:46	64742-65-0	
Surrogates								
o-Terphenyl (S)	93	%.	50-150	1	10/12/15 11:16	10/12/15 19:46	84-15-1	
n-Triacontane (S)	79	%.	50-150	1	10/12/15 11:16	10/12/15 19:46	638-68-6	

Sample: MW3 **Lab ID: 10324282006** Collected: 09/29/15 11:00 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 13:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 13:59	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 13:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 13:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	70-130	1		10/07/15 13:59	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		10/07/15 13:59	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130	1		10/07/15 13:59	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.40	1	10/12/15 11:16	10/12/15 20:08	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	10/12/15 11:16	10/12/15 20:08	64742-65-0	
Surrogates								
o-Terphenyl (S)	92	%.	50-150	1	10/12/15 11:16	10/12/15 20:08	84-15-1	
n-Triacontane (S)	77	%.	50-150	1	10/12/15 11:16	10/12/15 20:08	638-68-6	

Sample: MW2 **Lab ID: 10324282007** Collected: 09/29/15 12:15 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 14:24	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 14:24	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 14:24	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 14:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1		10/07/15 14:24	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		10/07/15 14:24	2037-26-5	
4-Bromofluorobenzene (S)	112	%.	70-130	1		10/07/15 14:24	460-00-4	

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ANALYTICAL RESULTS

Project: AT&T Bothell
Pace Project No.: 10324282

Sample: MW2 **Lab ID: 10324282007** Collected: 09/29/15 12:15 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 20:29	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.42	1	10/12/15 11:16	10/12/15 20:29	64742-65-0	
Surrogates								
o-Terphenyl (S)	92	%.	50-150	1	10/12/15 11:16	10/12/15 20:29	84-15-1	
n-Triacontane (S)	79	%.	50-150	1	10/12/15 11:16	10/12/15 20:29	638-68-6	

Sample: MW1 **Lab ID: 10324282008** Collected: 09/29/15 13:45 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 14:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 14:49	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 14:49	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 14:49	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1		10/07/15 14:49	17060-07-0	
Toluene-d8 (S)	103	%.	70-130	1		10/07/15 14:49	2037-26-5	
4-Bromofluorobenzene (S)	116	%.	70-130	1		10/07/15 14:49	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.41	1	10/12/15 11:16	10/12/15 20:51	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.41	1	10/12/15 11:16	10/12/15 20:51	64742-65-0	
Surrogates								
o-Terphenyl (S)	90	%.	50-150	1	10/12/15 11:16	10/12/15 20:51	84-15-1	
n-Triacontane (S)	77	%.	50-150	1	10/12/15 11:16	10/12/15 20:51	638-68-6	

Sample: Effluent **Lab ID: 10324282009** Collected: 09/29/15 14:30 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 15:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 15:14	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 15:14	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 15:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1		10/07/15 15:14	17060-07-0	
Toluene-d8 (S)	103	%.	70-130	1		10/07/15 15:14	2037-26-5	
4-Bromofluorobenzene (S)	111	%.	70-130	1		10/07/15 15:14	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	**1.4**	mg/L	0.40	1	10/12/15 11:16	10/12/15 21:13	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	10/12/15 11:16	10/12/15 21:13	64742-65-0	

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ANALYTICAL RESULTS

Project: AT&T Bothell
Pace Project No.: 10324282

Sample: Effluent **Lab ID: 10324282009** Collected: 09/29/15 14:30 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Surrogates								
o-Terphenyl (S)	91	%.	50-150	1	10/12/15 11:16	10/12/15 21:13	84-15-1	
n-Triacontane (S)	78	%.	50-150	1	10/12/15 11:16	10/12/15 21:13	638-68-6	

Sample: MW 13 **Lab ID: 10324282010** Collected: 09/29/15 11:15 Received: 09/30/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		10/07/15 15:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/07/15 15:39	100-41-4	
Toluene	ND	ug/L	1.0	1		10/07/15 15:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/07/15 15:39	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	70-130	1		10/07/15 15:39	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		10/07/15 15:39	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130	1		10/07/15 15:39	460-00-4	
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C							
Diesel Fuel Range SG	ND	mg/L	0.41	1	10/12/15 11:16	10/12/15 21:35	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.41	1	10/12/15 11:16	10/12/15 21:35	64742-65-0	
Surrogates								
o-Terphenyl (S)	94	%.	50-150	1	10/12/15 11:16	10/12/15 21:35	84-15-1	
n-Triacontane (S)	81	%.	50-150	1	10/12/15 11:16	10/12/15 21:35	638-68-6	

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QUALITY CONTROL DATA

Project: AT&T Bothell
Pace Project No.: 10324282

QC Batch: DAVM/2302 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10324282001, 10324282002, 10324282003, 10324282004, 10324282005, 10324282006, 10324282007, 10324282008, 10324282009, 10324282010

METHOD BLANK: 254985 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/07/15 09:26	
Ethylbenzene	ug/L	ND	1.0	10/07/15 09:26	
Toluene	ug/L	ND	1.0	10/07/15 09:26	
Xylene (Total)	ug/L	ND	3.0	10/07/15 09:26	
1,2-Dichloroethane-d4 (S)	%.	96	70-130	10/07/15 09:26	
4-Bromofluorobenzene (S)	%.	113	70-130	10/07/15 09:26	
Toluene-d8 (S)	%.	105	70-130	10/07/15 09:26	

LABORATORY CONTROL SAMPLE: 254986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	37.9	95	70-130	
Ethylbenzene	ug/L	40	40.1	100	70-130	
Toluene	ug/L	40	39.9	100	70-130	
Xylene (Total)	ug/L	120	118	98	70-130	
1,2-Dichloroethane-d4 (S)	%.			91	70-130	
4-Bromofluorobenzene (S)	%.			109	70-130	
Toluene-d8 (S)	%.			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 254987 254988

Parameter	Units	10324282001 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	38.0	39.4	95	98	70-130	3	25	
Ethylbenzene	ug/L	ND	40	40	39.3	39.9	98	100	70-130	2	25	
Toluene	ug/L	ND	40	40	38.7	39.4	96	98	70-130	2	25	
Xylene (Total)	ug/L	ND	120	120	104	106	87	88	70-130	2	25	
1,2-Dichloroethane-d4 (S)	%.						97	97	70-130			
4-Bromofluorobenzene (S)	%.						114	115	70-130			
Toluene-d8 (S)	%.						103	102	70-130			

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QUALITY CONTROL DATA

Project: AT&T Bothell
Pace Project No.: 10324282

QC Batch: OEXT/31117
QC Batch Method: EPA 3510C
Analysis Method: NWTPH-Dx
Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10324282001

METHOD BLANK: 2102361 Matrix: Water
Associated Lab Samples: 10324282001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	10/09/15 10:41	
Motor Oil Range SG	mg/L	ND	0.40	10/09/15 10:41	
n-Triacontane (S)	%.	62	50-150	10/09/15 10:41	
o-Terphenyl (S)	%.	72	50-150	10/09/15 10:41	

LABORATORY CONTROL SAMPLE & LCSD: 2102362 2102363

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.3	0.66	63	33	50-150	62	20	L0,R1
Motor Oil Range SG	mg/L	2	1.4	0.77	71	38	50-150	59	20	L0,R1
n-Triacontane (S)	%.				59	31	50-150			S0
o-Terphenyl (S)	%.				61	32	50-150			S0

SAMPLE DUPLICATE: 2102364

Parameter	Units	10324282001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2.0	2.8	30	30	
Motor Oil Range SG	mg/L	ND	.22J		30	
n-Triacontane (S)	%.	65	68	4		
o-Terphenyl (S)	%.	67	66	1		

SAMPLE DUPLICATE: 2102365

Parameter	Units	10324340001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.55		30	
Motor Oil Range SG	mg/L	ND	.056J		30	
n-Triacontane (S)	%.	52	65	22		
o-Terphenyl (S)	%.	53	65	21		

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QUALITY CONTROL DATA

Project: AT&T Bothell
Pace Project No.: 10324282

QC Batch: OEXT/31166 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510C Analysis Description: NWTPH-Dx GCS LV SG
Associated Lab Samples: 10324282002, 10324282003, 10324282004, 10324282005, 10324282006, 10324282007, 10324282008, 10324282009, 10324282010

METHOD BLANK: 2104902 Matrix: Water
Associated Lab Samples: 10324282002, 10324282003, 10324282004, 10324282005, 10324282006, 10324282007, 10324282008, 10324282009, 10324282010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	10/12/15 17:35	
Motor Oil Range SG	mg/L	ND	0.40	10/12/15 17:35	
n-Triacontane (S)	%.	57	50-150	10/12/15 17:35	
o-Terphenyl (S)	%.	85	50-150	10/12/15 17:35	

LABORATORY CONTROL SAMPLE & LCSD: 2104903 2104904

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.7	1.8	84	92	50-150	9	20	
Motor Oil Range SG	mg/L	2	1.7	1.8	83	92	50-150	10	20	
n-Triacontane (S)	%.				76	85	50-150			
o-Terphenyl (S)	%.				90	96	50-150			

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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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: AT&T Bothell
Pace Project No.: 10324282

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
PASI-DAVI	Pace Analytical Services - Davis
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCSV/16936

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCSV/16965

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AT&T Bothell
Pace Project No.: 10324282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10324282001	**MW8**	EPA 8260B	DAVM/2302		
10324282002	**MW5**	EPA 8260B	DAVM/2302		
10324282003	**MW6**	EPA 8260B	DAVM/2302		
10324282004	**MW7**	EPA 8260B	DAVM/2302		
10324282005	**MW4**	EPA 8260B	DAVM/2302		
10324282006	**MW3**	EPA 8260B	DAVM/2302		
10324282007	**MW2**	EPA 8260B	DAVM/2302		
10324282008	**MW1**	EPA 8260B	DAVM/2302		
10324282009	**Effluent**	EPA 8260B	DAVM/2302		
10324282010	**MW 13**	EPA 8260B	DAVM/2302		
10324282001	**MW8**	EPA 3510C	OEXT/31117	NWTPH-Dx	GCSV/16936
10324282002	**MW5**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282003	**MW6**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282004	**MW7**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282005	**MW4**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282006	**MW3**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282007	**MW2**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282008	**MW1**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282009	**Effluent**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965
10324282010	**MW 13**	EPA 3510C	OEXT/31166	NWTPH-Dx	GCSV/16965

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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.

10324282

Page: of

1844835

Section A Required Client Information:

Company: CB&I
Address: 18323 Bothell Everett Hwy Bothell, WA 98012 St. 310C
Email To: tim.oconnor@cbi.com
Phone: (425) 402-3352 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Tim O'Connor
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: AT&T Bothell
Pace Project Manager: Jenn Gross
Pace Profile #: 33093 #1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Dx / SGC	BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW8	WT	G	~~9-25-15~~		9-28-15	1225	18	5				5						2	3		001
2	MW5	WT	G	~~9-25-15~~	~~1515~~	9-28-15	1515	21	5				5						2	3		002
3	MW6	WT	G			9-28-15	1630	22	5				5						2	3		003
4	MW7	WT	G			9-29-15	1750	16	5				5						2	3		004
5	MW4	WT	G			9-29-15	0945	13	5				5						2	3		005
6	MW3	WT	G			9-29-15	1100	17	5				5						2	3		006
7	MW2	WT	G			9-29-15	1215	17	5				5						2	3		007
8	MW1	WT	G			9-29-15	1345	18	5				5						2	3		008
9	Effluent	WT	G			9-29-15	1430	19	5				5						2	3		009
10																						
11	MW13	WT	G			9-29-15	1115	17	5				5						2	3		010
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	IR1	SAMPLE CONDITIONS		
	Bruce Kram / CB&I	9/29/15	1550	[illegible] / Pace	9/30/15	1530	#	Y	N	Y
	Jenn Gross / Pace	9/29/15	16:45	[illegible] / Pace	9/30/15	1000	Sample Description	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

*20,53

Pace Analytical	Document Name: Cooler Transfer Check List	Revised Date: 23Apr2013 Page 1 of 1
	Document Number: F-MN-C-120-rev.01	Issuing Authority: Pace Minnesota Quality Office

Cooler Transfer Check List

Client: AT+T - CBI

Project Manager: Jenni Gross

Profile/Line #: 33093

Received with Custody Seal: Yes (No)

Custody Seal Intact: Yes No (NA)

	Temp Read	Corrected Temp	Correction Factor
Temperature C:	2.9, 5.2	3.0, 5.3	+0.1

IR Gun # IR1 IR2

☐ Samples on ice, cooling process has begun

Rush/Short Hold: NO

Containers Intact: (Yes) No

Re-packed and Re-Iced: ✓

Temp Blank Included: (Yes) No

Shipped By/Date: Pe ~~9/28~~ 9/29/15

Notes:

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: F-MN-L-213-rev.13	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: CB&I

Project #: WO#: 10324282

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

Tracking Number: See exception

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:

Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☐ B88A9130516413 ☐ B88A912167504 ☒ B88A0143310098

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): Cooler Temp Corrected (°C): See exception

Temp should be above freezing to 6°C Correction Factor: No. exception

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

Date and Initials of Person Examining Contents: BM 9/30/15

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
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) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☒ N/A	Sample #
	☒ Yes	☐ No	☐ N/A	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.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (If purchased): 070615-3824				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☒ No

Person Contacted: Tim O'Connor Date/Time: 9/30/15 11:30a

Comments/Resolution: Hold Trip Blank analysis. JG 10/1/15

Project Manager Review: ERIN GROSS Date: 10/1/15

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).

Pace Analytical	Document Name: SCUR Exceptions Form	Document Revised: 16Apr2012 Page 1 of 1
	Document No.: F-MN-L-220-Rev.00	Issuing Authority: Pace Minnesota Quality Office

Workorder #: _____

Issue			Sample ID	Corrected Temp	Container Type/#
6451	0864	5144		0.2°C	
11	11	5100		1.8°C	
11	11	5122		0.8°C	

Pace Analytical	Document Name: Sample Container Count	Document Revised: 30Jul2014 Page 1 of 1
	Document No.: F-MN-C-090-Rev.04	Issuing Authority: Pace Minnesota Quality Office

1314
1290

Client: AT+T Project #: 10324282 COC ID: 1844835 COC Page: 1 of 1

AG3H

Sample Line Item	BP1U	BP2U	BP3U	BP3S	BP3N	AG1U	AG1H	AG3S	AGIT	JGFU	JGCU	BJFU	WPDU	VG9M	VG9H	GN	SP5T	DWC
☐	Check the box to the left to indicate that the container(s) received for line items - are identical to the container(s) documented for line item 1 for this CoC.																	
1-10 1								2							3			
11 1															2 TB			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Comments:

Container Codes:

AG1H	1 L amber glass HCL	BP1N	1 L plastic HNO3	DG9C	40 mL vial with ascorbic acid	VG9B	40 mL clear VOA vial Na Bisulfate
AG1S	1 L amber glass H2SO4	BP1S	1 L plastic H2SO4	DG9T	40 mL amber VOA vial Na Thio	VG9H	40 mL clear VOA vial HCl
AG1T	1 L amber glass Na Thiosulfate	BP1U	1 L plastic unpreserved	DG9U	40 mL amber VOA vial	VG9M	40 mL clear VOA vial MeOH
AG1U	1 L amber glass unpreserved	BP1Z	1 L plastic NaOH, Zn Ac	DWC	Dry weight container	VG9S	40 mL clear VOA vial H2SO4
AG2H	500 mL amber glass HCl	BP2A	500 mL plastic NaOH	EZH	25 g Encore	VG9T	40 mL clear VOA vial Na Thiosulfate
AG2N	500 mL amber glass HNO3	BP2N	500 mL plastic HNO3	GJ	1 Gallon jug	VG9U	40 mL clear VOA vial
AG2S	500 mL amber glass H2SO4	BP2S	500 mL plastic H2SO4	GN	General unpreserved	VG9W	40 mL clear VOA vial DI Water/stir bar
AG2U	500 mL amber unpreserved	BP2U	500 mL plastic unpreserved	GNN	General preserved with Nitric Acid	VSG	Headspace septa vial and HCl
AG3H	250 mL amber glass HCl	BP2Z	500 mL NaOH, Zn Ac	GNS	General with H_2SO_4	WGFX	4 oz wide jar and wipe Hexane
AG3S	250 mL amber glass H2SO4	BP3A	250 mL plastic NaOH, Asc Acid	JGCU	8 oz clear wide jar	WPDU	16 oz clear wide mouth jar
AG3U	250 mL amber glass unpreserved	BP3N	250 mL plastic HNO3	JGFM	4 oz amber wide jar MeOH	XAD	XAD trap
AG4S	120 mL amber glass H2SO4	BP3S	250 mL plastic H2SO4	JGFU	4 oz wide jar		
AG4U	125 mL amber glass unpreserved	BP3U	250 mL plastic unpreserved	PB	Clear zip-lock bag		
BJFM	4 oz clear jar MeOH	BP3Z	250 mL plastic NaOH, Zn Ac	PUF	Polyurethane Foam		
BJFU	4 oz amber tared weight	BP4N	125 mL plastic HNO3	SP5T	120 mL Coliform NA Thiosulfate		
BJTM	2 oz clear MeOH	BP4U	125 mL plastic unpreserved	T	Tedlar Bag		
BJTU	2 oz clear wide jar	C	Air Cassettes	TDT	Thermal desorption tube		
BP1A	1 L plastic NaOH	DG9H	40 mL amber VOA vial HCl	U	Summa Can		

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10324282 **Workorder Name:** AT&T Bothell **Owner Received Date:** 9/30/2015 **Results Requested By:** 10/13/2015

Report To	Subcontract To
Jennifer Gross Pace Analytical Services, Inc. 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Fax (612)607-6444	Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530)297-4800

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCl	Requested Analysis: BTEX by 8260	LAB USE ONLY: 1254579
1	MW8	PS	9/28/2015 12:25	10324282001	Water	3	X	001
2	MW5	PS	9/28/2015 15:15	10324282002	Water	3	X	002
3	MW6	PS	9/28/2015 16:30	10324282003	Water	3	X	003
4	MW7	PS	9/28/2015 17:50	10324282004	Water	3	X	004
5	MW4	PS	9/29/2015 09:45	10324282005	Water	3	X	005
6	MW3	PS	9/29/2015 11:00	10324282006	Water	3	X	006
7	MW2	PS	9/29/2015 12:15	10324282007	Water	3	X	007
8	MW1	PS	9/29/2015 13:45	10324282008	Water	3	X	008
9	Effluent	PS	9/29/2015 14:30	10324282009	Water	3	X	009
10	MW 13	PS	9/29/2015 11:15	10324282010	Water	3	X	010

Transfers	Released By	Date/Time	Received By	Date/Time
1	Dawn Asp PACE	10/1/15 11:30	Cameron Rutherdale PACE DAVIS	10/2/15 0940
2				
3				

Comments

Cooler Temperature on Receipt 1.0 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

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: Pace MN

Project #: WO# : 1254579

1254579

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

Tracking Number: 6484 8692 1787

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: **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): 1.2 **Cooler Temp Corrected(°C):** 1.0 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** ~0.2 **Date and Initials of Person Examining Contents:** CMP 09

Comments: COC 100215 TJB

Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
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.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 10/5/15

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
September 28 and 29, 2015, 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 20.5	(°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)
09/28/15	10:35	.	.	4.73	.	.	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: 7.50 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	9/29/15	13:45	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/29/15	13:45	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) BTEX OR [ ] WA [9]
	AMBER - Glass	(8080) (8150) (TOX) DX w/SGC 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: 13:10 Pump/Bailer Inlet Depth: 6.00 7.00 7.50

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1313 0	B	0.00	6.28	-20.1	453	19.39	4.80	3.51	slight grey color & turbidity
1320 1	B	0.75	6.27	-32.8	452	18.78	5.94	Ø.41	Ø color ; Ø turbidity
1327 2	B	1.25	6.26	-42.8	455	18.46	6.40	Ø.45	" ; "
1333 3	B	1.75	6.28	-46.5	458	18.37	6.78	Ø.29	" ; "
1338 4	B	2.25	6.33	-48.4	462	18.36	7.12	1.40	" ; "
5		.	.			.	.	.	
6		.	.			.	.	.	

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

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 19.0	(°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)
09/28/15	10:40	.	.	6.08	.	.	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: 8.30

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√ if used
VOA Glass	9/29/15	12:15	G	3 (40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/29/15	12:15	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) BTEX OR [ ] WA [X]
	AMBER - Glass	(8080) (8150) (TOX) Dx w/ SGC 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: 11:45 Pump/Bailer Inlet Depth: ~~7.50~~ 8.30

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0	B	0.00	6.10	26.1	391	16.40	6.13	8.06	slight grey color & turbidity
1152 1	B	0.50	6.07	7.3	411	16.73	6.89	1.03	clearing
1158 2	B	1.00	6.07	-10.2	420	16.68	7.40	1.56	Ø color & turbidity
1203 3	B	1.50	6.07	-15.0	428	16.60	7.85	0.65	Ø " ; Ø "
1208 4	B	2.00	6.07	-18.7	433	16.51	8.10	0.52	" ; "
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:** MW3
SITE ADDRESS: 20307 North Creek Parkway, Bothell, WA 98011 **BLIND ID:** —
DUP ID: MW13 NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		TEMPERATURE:	°F 16.0 (°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)
09/28/15	10:44	.	.	4.29	.	.	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: 6.00 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	9/29/15	11:00	G	6	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/29/15	11:00	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) BTEX OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX) Dx w/ SOC 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: 10:35 Pump/Bailer Inlet Depth: 6.00

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1037	0	B	0.00	6.29	-24.4	281	16.01	4.33	4.92	Ø turbidity; Ø color
1043	1	B	0.75	6.25	-32.0	303	16.52	4.48	Ø.37	" " "
1048	2	B	1.25	6.23	-36.1	304	16.54	4.49	Ø.35	" " "
1053	3	B	1.75	6.25	-35.7	304	16.59	4.50	Ø.29	" " "
1058	4	B	2.25	6.24	-38.3	305	16.56	4.49	Ø.27	" " "
	5		.	.			.	.	.	
	6		.	.			.	.	.	

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

MW13 samples (5) collected 9/29/15 @ 1115

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 10.0 (° 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)
09/28/15	10:50	.	.	2.20	.	.	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: 3.70

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used] √
VOA Glass	9/29/15	09:45	G	3 (40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/29/15	09:45	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) BTEX OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX) Dx w/SOC 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: 09:17 Pump/Bailer Inlet Depth: 3.70

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
0920 0	B	0.00	6.47	48.5	218	13.54	2.23	5.19	Ø color; Ø turbidity
0928 1	B	0.50	6.46	38.1	236	13.87	3.03	1.49	" ; "
0933 2	B	1.00	6.45	24.0	235	13.51	3.05	Ø.75	" ; "
0938 3	B	1.50	6.45	24.6	234	13.32	3.15	Ø.67	" ; "
0945 4	B	2.00	6.44	21.4	231	13.14	3.15	Ø.46	" ; "
5		.	.			.	.	.	
6			.			.	.	.	

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

New tubing placed in 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:** —
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)
09/28/15	10:59	.	.	4.68	.	.	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: 6.0

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used]
VOA Glass	9/28/15	15:15	~~B~~ G	3	(40 ml) HCl	(YES)	(NO)		
Amber Glass	9/28/15	15:15	~~B~~ 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) BTEX OR [ ] WA [X]
AMBER - Glass	(8080) (8150) (TOX) Dx w/ SGC 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: 14:50 Pump/Bailer Inlet Depth: 6.0

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp °C	DTW	Diss O_2 (mg/l)	Water Quality
1452 0	B	0.00	6.12	-17.6	672	20.24	4.68	3.78	Ø turbidity; slight grey color
1458 1	B	0.50	6.18	-34.9	694	20.59	5.32	3.03	" " clearing
1509 2	B	1.00	6.14	-36.0	712	20.49	5.74	1.01	Ø turbidity; Ø color
1513 3	B	1.50	6.14	-46.0	722	20.82	5.90	0.31	" " "
1518 4	B	2.00	6.15	-47.9	725	20.81	5.98	0.26	" " "
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: ~~MW6~~ 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) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
09/28/15	10:55	.	.	4.36	.	.	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: 6.50

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used]
VOA Glass	5/28/15	16:30	G	3 ~~4~~	(40 ml) HCl	(YES)	(NO)		
Amber Glass	5/28/15	16:30	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) BTEX Dx w/ SGC OR [ ] WA [X]
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: 16:04 Pump/Bailer Inlet Depth: ~~6.00~~ 6.50

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1606 0	B	0.00	6.14	-7.5	420	22.43	4.36	1.45	∅ color; ∅ turbidity
1612 1	B	0.50	6.12	-18.2	422	22.31	5.26	0.60	" ; "
1618 2	B	1.00	6.09	-19.1	422	22.02	5.90	0.44	" ; "
1625 3	B	1.50	~~6.26~~	~~-24.3~~	422	21.75	6.18	3.27	" ; "
4		.	6.12	-18.4		.	.	.	
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:** MW7
SITE ADDRESS: 20307 ~~8th~~ 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)
09/28/15	10:52	.	.	3.62	.	.	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: 5.5 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	9/28/15	17:50	G	3	(40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/28/15	17:50	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) BTEX Dx w/SGC OR [ ] WA [X]
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: 17:23 Pump/Bailer Inlet Depth: 5.0 5.5

Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1725 0	B	0.00	6.43	-17.2	285	15.70	3.68	3.76	Slight turbidity; Ø color
1730 1	B	0.75	6.41	-24.3	287	15.68	4.84	0.78	Ø turbidity; Ø color
1737 2	B	1.25	6.46	-30.5	289	15.60	5.18	1.69	" ; "
1743 3	B	1.75	6.47	-35.8	290	15.56	5.45	1.13	" ; "
4		.	.			.	.	.	
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 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)
09/28/15	11:03	.	.	5.48	.	.	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: 8.52 [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	9/25/15	12:25	G	3 (40 ml)	(HCl)	(YES)	(NO)		
Amber Glass	9/25/15	12:25	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

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AMBER - Glass	(8080) (8150) (TOX) Dx w/ SGC OR [ ] WA [ ]
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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: 11:52 Pump/Bailer Inlet Depth: 8 6.52

	Meas.	Method §	Purged (gal)	pH	ORP	E Cond (µS)	°F Temp (°C)	DTW	Diss O_2 (mg/l)	Water Quality
1153	0	B	0.00	6.34	-59.4	465	17.50	6.52	6.87	Ø color; slight turbidity
1203	1	B	0.50	6.35	-55.0	460	17.72	6.48	1.56	Ø color; clearing
1210	2	B	1.00	6.34	-51.4	473	17.62	6.79	0.95	Ø color; "
1215	3	B	1.50	6.28	-43.9	508	17.58	7.04	0.81	" ; Ø turbidity
1223	4	B	2.00	6.31	-47.6	502	17.74	7.64	0.34	" ; "
	5		.	.			.	.	.	
	6		.	.			.	.	.	

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

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