October 4, 2013 Project No. 146714

Ms. Patricia Wells
AT&T Services, Inc.
308 South Akard, Suite 1700
Dallas, TX 75202

Re: Summary Report
Remediation System Installation
Bothell Data Center (WA0058)
20307 North Creek Parkway
Bothell, Washington

Shaw Environmental, Inc., a CB&I Company (CB&I) is pleased to submit this letter report summarizing activities associated with installation of a groundwater recovery and treatment system at the Bothell Data Center.

The remediation system consisted of two pneumatic groundwater recovery pumps driven by a 5 HP air compressor. The recovered groundwater is pumped to an oil/water separator that is rated at 20 gallons per minute (GPM). The oil/water separator separates free phase diesel from the groundwater and gravity flows into a 120-gallon UL listed product tank. The oil/water separator effluent is discharged to the sanitary sewer system. The site has six extraction wells with quick connects to allow for the movement of the recovery pumps from well to well to maximize efficiency of the product recovery. Currently the pumps placed in wells EW-3 and EW-6 and operate simultaneously with a continuous discharge to the sanitary sewer using the existing King County Discharge authorization. Due to the dry weather conditions over the summer months, the groundwater level in the area dropped resulting in groundwater recovery from only EW-3. As fall rain events start to occur we anticipate the groundwater elevations will rise resulting in more groundwater being recovered from both EW-3 and EW-6.

Installation of the system entailed trenching, slab installation, connection of utility sources, installation of utility boxes to accommodate pump controls, screening fencing and landscaping, and connection to sanitary sewer. All site surfaces impacted by installation activities were restored. Changes from the initial plans included the following:

- Seismic requirements for the bolt down pattern on the pad had to be changed to address requirements from the city after the original permit application was submitted.
- During installation of the discharge line, concrete that was 12 inches thick was encountered at the 15 foot wide patio on the east side of the building. This required a second saw cut, shielding for the glass door and windows, rental of a jackhammer Bobcat, and additional debris disposal.
- The City of Bothell initially approved the plan for running the discharge line aboveground into the sewer manhole. When the overall permit application was submitted, the city requested that

the line be run underground. Trenching was completed to install the line and a tap was installed into the side of the sewer manhole.

- The property manager requested that Brickman be used to monitor and repair landscaping disturbed during installation of the system.

Specifics regarding the schedule and the equipment installed are summarized below.

Chronology

Date	Activity
May 6, 2013	Seismic design and City of Bothell permit applications initiated
May 20, 2013	City of Bothell permit application submitted for review and approval
June, 2013	NRC cleaned the frac tank, removing all contents
June 13, 2013	Comments received from the City of Bothell
June 20, 2013	Revised City of Bothell permit application submitted for review and approval
June 28, 2013	City of Bothell approves permit for system
July 2, 2013	Rain For Rent removes the frac tank and all hoses from the site
July 8-25, 2013	System installation
July 26, 2013	City inspection scheduled
July 29, 2013	System start up

Specifics for equipment are as follows:

<u>Equipment enclosure slab</u>

- 10'X15'X6"
- #4 rebar 12" on center each way

<u>Pennsylvania insert well vaults</u>

- 36" L x 36" W
- 24" Skirt

<u>20 GPM Oil/Water Separator</u>

- Dimensions: 76"L x 36"H x 24"W
- Adjustable rotary skimmer
- Gravity feed to product tank
- 47-gallon product effluent chamber
    - Effluent chamber high level switch

    - Effluent chamber pump control switch
- Performance: 20 GPM at 100-feet of TDH

120 gallon single wall product tank

- UL 142
- Manual drain
- 15-foot exhaust stack
- Secondary containment provide by the skid structure

Piping and hoses

- 1.5-inch diameter water discharge hose (chemical resistant for diesel) inside a 4-inch PVC conduit line from wells to OWS in remediation system enclosure
- 3/8-inch diameter air supply hose pulled from existing 4-inch conduit located inside extraction wells through 4-inch PVC conduit line to remediation system enclosure
- 1.5-inch diameter water discharge hose (ultra flex white PVC) inside a 4-inch PVC conduit line from remediation system enclosure to sanitary sewer

A 90 day performance evaluation will be completed in November 2013 to determine actual system performance versus the design. During this evaluation, recommendations for movement of the recovery pumps and adjustments of the oil water separator as well as mass recovery rates will be determined. This information will then be used to optimize the system operation. On-going quarterly reviews will be performed to ensure the recovery system is achieving optimum performance. CB&I appreciates the opportunity to provide you with environmental services consistent with your needs. If you have any questions or require additional information, please contact Leigh Grover (972) 773-8417 or Lori Evans (972) 773-8411.

Sincerely,
CB&I

Lori Evans
Senior Project Manager

Leigh Grover
Project Manager

Client: AT&T

Location: Bothell Data Center (WA0058)

Prepared by: CB&I
Photograph Date: Various
Project No: 146714.04

Photograph No. 1	
Description: Forms for system pad	

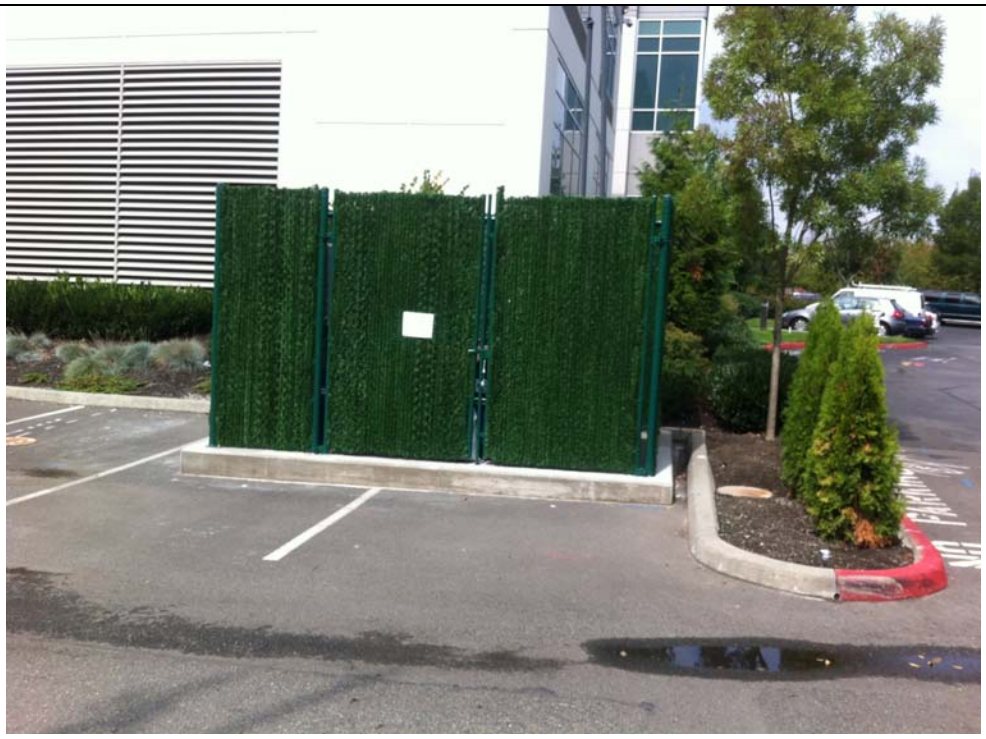
Photograph No. 2	
Description: System skid on pad prior to plumbing	

Client: AT&T

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Photograph No. 3	
Description: Oil water separator and product storage tank	

Photograph No. 4	
Description: System enclosure after screening was installed	

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Location: Bothell Data Center (WA0058)

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Photograph Date: Various
Project No: 146714.04

Photograph No. 5	
Description: System enclosure after screening was installed	

Photograph No. 6	
Description: Installation of new Pennsylvania box	

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Photograph Date: Various
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Photograph No. 7	
Description: Concrete pour around new Pennsylvania box	

Photograph No. 8	
Description: Parking lot after completion of Pennsylvania box installation. South wall of generator building in the background	

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Photograph No. 9	
Description: Removal of 12 inch thick concrete prior to installation of discharge line, east side of the building.	

Photograph No. 10	
Description: Discharge line	

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Photograph No. 11	
Description: Discharge pipe tie in to the sanitary sewer.	

Photograph No. 12	**NO PHOTO**
Description:	