BGWBF
2.1
8/12/09

ecology and environment, inc.

International Specialists in the Environment

USEPA SF
1306360

Job Number 002233.0178.01BR

Bremerton Gasworks properties

TDD- 07-01-0008

419-9782

CITY OF BREMERTON
PUBLIC WORKS & UTILITIES

Daniel J. Miller
Project Manager

Tel 360-473-2314
Fax 360-473-5018

dan.miller
~~dmiller~~@ci.bremerton.wa.us

3027 Olympus Drive
Bremerton, WA 98310

David A. Cook, LG, RBP
Principal, Environmental/Redevelopment
dcook@geoengineers.com

telephone 206.728.2674
cellular 206.239.3229
facsimile 206.728.2732

GEOENGINEERS
Earth Science + Technology

Plaza 600 Building
600 Stewart St, Suite 1700
Seattle, WA 98101
www.geoengineers.com

Sean P. Trimble, PG
Environmental Geologist
strimble@geoengineers.com

telephone 206.728.2674
facsimile 206.728.2732

GEOENGINEERS
Earth Science + Technology

Plaza 600 Building
600 Stewart St, Suite 1700
Seattle, WA 98101
www.geoengineers.com

E & E Job Number 002233.0178.0132

Telephone Code Number

Site Name Bremerton Gasworks properties

City/State Bremerton, WA 98310

TDD 07-01-0008

PAN

SSID N/A

Start / Finish Date 1/16/07 , 8/31/09

Book 1 of 2

E & E Emergency Response Center: (716) 684-8940
E & E Corporate Center: (716) 684-8060
MEDTOX Hotline: (501) 370-8263
E & E Safety Director (Home): (716) 655-1260

002233.0178.01BR Bremerton Gasworks 01-16-07

Bryce Robbert

Calling Joanne Labow Re: Bremerton Phase I Assessments

Weather 035F

1506- Left a message with Joanne's Voicemail.

1615- Joanne returned my call, informed START that the Phase I ESA's are available on the 9th floor, office mailroom.

Bryce Robbert 1-22-07

002233.0178.01BA Bremerton Gasworks 01-23-07

Bryce Robbert

Re: meeting with Jeff Fenton / Renee Nordeen

Weather: 50°F / Partly cloudy

1415 - Attending a meeting with Renee / Jeff concerning a meeting with Duane Laban / Geoengineers / City of Bremerton.

Bryce Robbert 1-23-07

602232. 0178. 0112 Bremerton Gasworks 1/24/07

Bryce Rossow

Calling Joanne R: BR Gas

1500 - Called Joanne Lusar, left message
requesting Bremerton Gasworks meeting.

Bryce Rossow 1-24-07

002233.0178.01BR Bremerton Gasworks 1/30/07

Bryce Robbert

Calling Joanne Re: BR Gas

1620 - Received message from Joanne regarding the Bremerton Gasworks.

- In training today - able to talk @ 4-5 pm
- She is injured, but wants START to turn a site walk-through without her.
- She will arrange a site walk-through
- 206 553 2594

1630 - Called at 1630, ended call at 1637.

1752 - Joanne called back @ 5:52 pm -

- Geoengineers has scheduled a site walkthrough at Bremerton Gasworks for 1130 AM, 2/1/07
- Discussing site / sampling with Geoengineers and City of Bremerton.
- Target analyticals PAH, metals, petroleum
- Mixed waste site
- Bring camera, log book, maps

Bryce Robbert 1-30-07

002233.0178.01BR Bremerton Gasworks 1-31-07

Bryce Robbert

Calling Joanne re: BR Gas

11:03 - Joanne called wanting to confirm my email address and that the 2/1/07 site walkthrough and meeting in Bremerton.

16:30 - Spoke with Jeff Fowlow about traveling to Bremerton at 8:45, conducting a site walkthrough at 1130, and attend a meeting with Joanne Lister at 1315.

Bryce Robbert 1-31-07

002233.0178.01BR Bremerton Gasworks 2-1-07

Bryce Robbins + Jeff Fowler

Traveling to Bremerton / City of Bremerton meeting

Weather 40°F, Clear, Slight breeze

0800 - Depart from warehouse to Seattle / Bremerton Ferry

0845 - Depart to Bremerton via Ferry.

0950 - Arrival in Bremerton, depart ferry and break for lunch.

1100 - Depart for McConkey properties at 1725 Pennsylvania Avenue in Bremerton, WA.

1130 - Arrival at McConkey properties. Stakeholders on site: Trip McConkey (Owner, Overlandon), Scott Trimble (Geoengineers) Daniel Cook (City of Bremerton), Dan Miller (Bremerton architect) McConkey property - prop. 1 (2.4 acres), prop. 2 (1.5 acres) Sesko property - prop. 1 (0.55 acres) formerly 10 Aboveground Storage Tanks on site, only foundations and broken asphalt remains.

1155 Trip McConkey leads START on tour of properties, describing the history of the site, and his intentions to develop the land for marina / housing ~~project~~ BR project.

1230 Geoengineers Scott Trimble spoke about surveying the properties, having Geoengineers install monitoring wells, and having the EPA (ESE) sample with a Geoprobe. Geoengineers will collect approx. 8 new locations: 2 near the "gas tank" on McConkey property, 1 near the tank farm, 1 in the tank farm, 2 on the Sesko property, and 1 on the trail near the beach.

1305 START departs from the McConkey property and travels to City of Bremerton Public Works Building for a meeting with Joanne Lubin, EPA and the other stakeholders. Geoengineers laid out their strategy for installing monitoring wells, and developing a report to share with EPA. BRyce 2-2-07

G02233.0178.01BR Bremerton Gasworks 2-7-07

START - Bryce Robbert, Jeff Fowler

City of Bremerton meeting

Weather - 55°F, Clear, Slight breeze

1330 - Geoengineers wants EPA/START QAPP, results from borehole sampling. EPA will do SQAP, report planning: Survey will be complete 2/26-3/19, Geoengineers will submit their sampling plan to EPA/START 3/15, EPA/START review and comment 4/15, Geoengineers field work complete 4/30, Analysis / bore holes complete by 5/30, report complete 6/15, EPA/START field work complete by 8/1-8/15, Analysis 9/15, report complete by 10/1/2007. Joanne will contact the State Historical preservation Officer to confirm the site is not a cultural / historical resource. CLP analysis will be used. Access Agreements will take time for sesco property. Meeting concluded at 1443.

1510 START departs from site, destination E&E warehouse.

1700 START arrives at warehouse. BR-8, JF-8

Bryce Robbert

2-1-07

07-01-0008 Bremerton Gasworks 4/9/07

START - Bryce Robbins

Communications from Joanne Labaw, re: 4/9/07

weather - 45° F, cloudy

1527 - Responded to Joanne Labaw's e-mail regarding Geoconstructors SAP & QAPP.

Bryce Robbins
4/9/07

07-01-0008 Bremerton Gasworks 05/2/07

START- Bryce Robbert, communication between Joanne Laban

Weather- 50°F, partially cloudy

0917- Joanne Laban sent an e-mail informing START that the Geoengineers scheduling for field work will be bumped back to May 21.

1400- START BR e-mailed a response to Joanne Laban.

1445- START BR called Joanne Laban to clarify that START field work will be delayed based on Geoengineers delay.

1542- Joanne Laban sent a forwarded e-mail to Geoengineers / parametrix - resend the surveying data.

Bryce Robbert
5/3/07

002233.0178.0131 Bremerton Gasworks TBA 12/5/07

START - Linda Costello, Bryce Robbins

EPA - ~~Linda Costello~~ RL Joanna Labaw

City of Bremerton - Dan Miller, GeO - Sean Trinsky David Cook -

re: City of Bremerton Scoping meeting -

12:52 - START BAILC arrived at Bremerton site, met with City of Bremerton Dan Miller

13:02 - EPA Joanna Labaw arrived at site.

13:04 - Dan Miller discussed meeting with Dave McCarthy, potential conflict, concern about financial impacts.

13:06 - Geoengineer, David Cook, Sean Trinsky arrived.

13:17 - David Cook started the meeting - Ms. Labaw stated that we have a strategy for scoping.

14:24 - meeting adjourned.

Bryce Robbins

07-01-0008 Bremerton Gasworks 05/02/08

START- WSI Bryce Robbins

Weather- 50°F, Overcast

Re: Bremerton Gasworks Locating

0650 - WSI Bryce Robbins departs from home.

0729 - Contacted via mobile phone by CNI Locates. Informed about a possible delay, will arrive by 0830-0900.

0750 - Arrived onsite.

0842 - CNI Locates arrived onsite, prepares to conduct underground locate.

0849 - WSI BR spoke with Troy McCloskey. Mr. McCloskey has made the restroom facilities available for site work.

0917 - Contact START Rene Nordlien - informed her about events occuring onsite. Will update at the end of the day.

0919 - CNI Locates informed START BR that additional costs would be incurred if a sewer locate service was performed.

0926 - START BR contacted EGE Kathy Miller regarding the additional cost for sewer location services. Left message on her office voicemail.

0945 CNI Locates indicated that two of the storm water outfalls were filled in with silt + debris. He indicated (Tim Jones) that the two outfalls on the North McCloskey property should be considered "dry wells".

1124 CNI Locates departed for a 10 minute break.

1134 CNI Locates returned to the site.

1209 CNI finishes locating the Sesko property.

1211 WSI departs from site (BR).

1230 WSI board WS Ferry to Seattle

1350 WSI arrives at EGE Seattle.

[signature] 5/2/08

07-01-0008 Bremerton Gasworks 5/12/05

- START - Renee Nordeen, Alan Jensen, Courtney Funk, Bryce Robbert
- Boart Longyear - Travis Stephens, plus 3 workers.
- weather - 65°F, p. cloudy, faint breeze
- 002233.0178.01 BR Re: Bremerton Gasworks TBA
- 0621 - START BR, RN arrived at EPA Region 10 warehouse
- 0625 - START CF arrives, transfers equipment.
- 0639 - START BR, RN, CF depart from WH, destination 1725 Pennsylvania Avenue. Bremerton, WA for drilling, environmental sampling site work.
- 0757 - Arrived at Pennsylvania Avenue. On site.
- 0758 - START BR spoke with site owner, Tripp McConkey, introduced START RN, CF, gave permission to use Penn Plaza restroom facilities during site work.
- 0810 - START AJ, RN, CF, BR conduct site safety meeting, discussed slip/trip/falls, bee allergy awareness, and overhead powerlines. All START personnel sign/date H&S plan.
- 0815 - Boart Longyear remobilized from Thompson Avenue, to Pennsylvania Avenue (Sesko property) to prepare to collect SP02 soil samples and install monitoring well.
- 0838 - Trip blank poured @
- 0859 - Boart Longyear has prepared drill rig for sampling. START CF, AJ will be present during drilling activities.

BR ~~0922~~

0922 - First sample collected, SP02 1360S.

0923 - Site owner Tripp McConkey will contact the owners of several vehicles on the North McConkey property to move their vehicles to accomodate site drilling activities.

- 0955 - Boart Longyear notified START BR that the monitoring well materials will not be available.

[signature] 5-12-05

07-01-0008 Bremerton Gasworks TBR. 05/12/08

START - Renee Nordeen, Alan Jensen, Courtney Funk, Bryce Robbart

Boart Longyear - Travis Stephens + 3 workers

~~1005~~ BR ~~mr.~~ weather - 65°F, P. cloudy.

Re: Continued drilling operations

1005 - Boart Longyear Travis Stephens departed from the site.

1015 - Drilling delayed until monitoring well supplies arrive.

1047 - Boart Longyear staff depart for an early lunch.

1052 - START depart for lunch.

1129 - START return to site.

1147 - Boart Longyear staff return and commence with monitoring well installation at SP02.

1159 - Boart Longyear inserted Ogle Bay / Norton Colorado Silica Sand into the monitoring well, and performed decon on the hollow-stem augers as they were ~~removed~~ BR removed from borehole SP02.

1259 - Boart Longyear finished monitoring well SP-02's well tag # BAJ109.

1345 - Drilling starts on SP01, first sample collected at 1355.

1425 - Drilling stops on SP01, subsurface soil collection halted at 20 feet bgs. One groundwater sample was collected.

1600 - Drilling starts at SP03, first sample collected at 1605.

1710 - Drilling stops on SP03, an additional ~~3 samples~~ BR 15' bgs were collected, with visual contamination. One groundwater sample was collected.

1711 - Drillers depart from the site.

1800 - SP03GW was collected, START AJ departs the site.

1850 - START BR, CF depart the site.

[signature] 5/12/08

07-01-0008 Bremerton Gas Works TBR 05/13/08

START - Bryce Robbins, Alan Jensen, Courtney Funk

Boart Longyear - TJ + 2 workers

weather - 50°F, heavy clouds, light rain

Re: Continuing Operations

0719 - START AJ, BR, CF arrive onsite.

0729 - Boart Longyear arrives onsite, prepares to commence drilling operations.

0759 - Site owner Tripp McCauley arrives on site, inquiring about site activities.

0820 - START AJ contacts WES Joe Fowlow about sending additional sample supplies to the Oxford Hotel.

0915 - Trip Blank 02 is poured by START AJ.

0920 - Drilling commences at MP04, first sample collected at 0940.

1139 - Drillers departed from the site.

1215 - Drillers returned to the site.

1351 - START departed from the site for lunch.

1425 - START returned to the site. Boart Longyear will continue to develop well MP04 and SP02.

1507 - MP04SB25 hit refusal, no sample taken, and MP04SB30 hit refusal ~~at~~ BR, but enough sample was collected at MP04SB25 from a depth of 25 to 26.5 to complete analysis requirements.

To clarify: no sample was taken at MP04SB30.

1530 Rinsate RS01WT collected from Boart Longyear drill rig.

Note: At 1530, the drillers departed the site.

1600 - START AJ departed the site with samples, bound for Manchester Environmental Lab, port orchard, WA.

1700 - START BR, CF depart the site.

[signature] 5/13/08

07-01-0608 Bremerton Gas Works TBR 5/14/08

START - Alan Jensen, Bryce Robbert, Courtney Frank

Boart Longyear - TJ + 2 workers

Weather - 55°F, full overcast

Re: continuing drilling operations

0705 - START BR & CF arrive onsite.

0710 - START AJ arrived onsite, with COC receipts from Manchester Env. Lab.

0719 - Boart Longyear arrived onsite.

0730 - START BR spoke with TJ from Boart Longyear about drilling in Thompson Avenue. He indicated that two appropriate ~~[illegible]~~ BR locations were available.

0755 - START AJ poured trip blanks.

0800 - Site owner Tripp McCoukey inquired about site work, START BR gave a brief summary.

0805 - Drilling commences at MP01, first sample collected at 0825 (MS/MSD).

0857 - Boart Longyear snapped a cable for the hammer. START AJ poured RS02WT at 0900.

0922 - START R. Nordeen informed START BR about a delay in the right of way permit.

1000 - START BR notified START R. Nordeen regarding insufficient water for MP01GW (MS/MSD) - START R. Nordeen advised to stop drilling and move MS/MSD to another location.

BR ~~No sample was collected for MP01GW.~~

1030 - START R. Nordeen notified START BR that the CLP ID number will be included with all samples going to KAP Technologies, Inc. in The Woodlands, TX. SVOCs and VOCs will be shipped, as well as SVOC and VOCs that were originally shipped to Manchester.

1045 Drillers depart for lunch.

[illegible] 5/14/08

07-01-0008 Bremerton Gas works TBA 5/14/08

START - Alan Jensen, Bryce Robbins, Courtney Funk

Boat Long year - John, JT + 1 worker

weather 65° F, Overcast

Re: continuing operations

1050 - START repackages samples for manchester and KAP, Inc.

1119 - Drillers return from lunch.

1120 - START has delayed drilling MP02 - MP03 to finish developing MP01 GW sample.

1230 - START departs the site for lunch, shipping samples to KAP Tech, Inc.

1305 - START returns to the site.

1330 - START collects MP01 GW sample.

1335 - Boat Long year finishes abandoning MP01.

1359 - Boat Long year departs from the site.

1505 - START AJ departs from site, delivering samples to manchester.

1510 - START sends START CF with additional sample to manchester.

1700 - START CF returns, both START DR / CF depart the site to ship to KAP Tech, Inc.

[signature]

5/14/08

07-01-0008 Bremerton Gasworks, TBA 5/15/08

START - Alan Jensen, Bryce Robert, Courtney Frank, Bryan Hasser

weather - 60°F, Overcast

Re: Continuing Operation

0730 - START BR, CF, AJ arrive onsite.

0735 - START Bryan Hasser arrives onsite

0748 - START BR contacted START R. Nordson, who informed START V. Miller that drilling would not continue on Thompson Avenue (MP02-MP03).

0900 - START AJ starts Trip Blank TB05WT.

1015 - MP04GW collected.

1210 - SP02GW collected.

1250 - START AJ, CF departed for lunch. START BR departed the site.

1350 - START AJ, CF returned to the site.

1400 - RS03WT collected.

1447 - START AJ recorded # of soil/water IDW drums.
16 55-gal drums of soil, 6 55 gallon of water, 1 55 gal of PPE waste.

1535 - START AJ departs with samples to manchester.

1640 - START CF departs.

1710 - START BR departs, meets START AJ near Manchester.

1759 - START BR departs to warehouse.

1900 - START BR arrives, unloads some equipment (TWA) and departs.

Alan Jensen
5/15/08

07-01-0008 Bremerton Gasworks TBR 5/19/08

START - Bryce Robbot, Courtney Funk, Bryan Yasser

Boart Longyear - John + 2 workers

weather - 70°F, high humidity

0700 - START CF, BY arrive onsite

0705 START BR arrives onsite

0718 - Boart Longyear arrives onsite, prepares to drill.

0745 - START BR pours trip blanks.

0755 - Drilling begins at MP03, first sample collected by 0815.

0900 - Groundwater encountered at MP03 @ 18.5 - 20 ft.

0945 - START encountering difficulty in collecting a groundwater sample out of MP03, will inquire with drillers regarding best method for removing water. An additional water sample will be collected after drilling MP02, to allow time for GW recharge.

1100 - Drilling begins at MP02, first sample collected by 1115.

1220 - Contacted START R. Nordeen, regarding insufficient volume of water collected from MP03. Mrs. Nordeen advised START BR to send gasoline, volatiles, metals, ~~semi~~ BR diesel for analysis and to exclude SVOCs.

1230 - Boart Longyears has finished sampling to 30 bgs, encountered no groundwater.

1400 - City of Bremerton inspected patch work on road.

1425 - Boart Longyear departed the site.

1545 - START CF departs with samples to manchester.

1635 - START BY departs with samples to FedEx, START BR departs to EPA R10 warehouse.

1830 - START BR arrives at warehouse, departs in POV.

[signature]
5/19/08

07-01-0008 Bremerton Gasworks TBA 6/4/08

START - Bryce Robbert EPA - Joanne Labar

Weather - 55°F, light rain, heavy overcast

Re: Beach Sediment Sampling

0715 - Arrival at R10 warehouse.

0839 - START RN arrives at warehouse, assists with documentation, chain of custody.

0930 - START BR departs from warehouse.

1035 - START BR arrives on site, awaiting EPA Joanne Labar

1109 - EPA Joanne Labar arrives, meets with Tripp/Paul McCurley to discuss site activities.

1210 - START BR / EPA JL arrive on Bremerton Washington Narrows beach front.

1235 Sample WN01SD collected, MS/MSD.
- Additional VOC sample collected @

1350 Sample WN02SD collected.

1408 - Sample WN03SD collected.

1431 - Sample WN04SD collected.

1455 - Sample WN05SD collected

1510 - Correction: WN01SD will be re-collected

~~1524~~ due to the incoming tide / error with sampling VOCs.

1524 - WN01SD re-collected.

1545 - EPA Joanne Labar departs the site

1610 - START noted a drain pipe near the Scott property on the Washington Narrows.

1655 - Finished packing / labelling samples.

1715 - START departs from site.
- Samples were placed on ice in coolers.

[signature]

6-4-08

Photo Log - Somm 560 - XLEQ 058

~~Time~~ Date/Time	START	Dir.	Desc.
2/1/07	-		

Call to ~~Geo~~ Cascade Drilling - 425 485 8908
Left message at 13:23 on 2/1/08.

- In water side / Beach Sampling
- Natsch sesno / gate Access

Hours -
Monday - BR & CF = 12, AJ = 11, RN = 9.5
Tuesday - BR & CF = 12, AJ = 10.5
Wednesday - BR & CF = 10, AJ = 9.5
Thursday - BR - 12/CF 12, AJ = 11
Friday - BR - 8, AJ - 1

Monday (5/19/08) BR & BV = 12 CF = 11
Wednesday (6/4/08) BR = 12

Soil - 43

Water - 16

BR / BV / AJ / CF	RN
205	10
18,743	1,033

A	S	C	~~214.5~~ 215
84	2	52	
7,680	207	6,599	

Sean P. Trimble, PG DM
Environmental Geologist
strimble@geoengineers.com

telephone 206.728.2674
facsimile 206.728.2732

GEOENGINEERS
Earth Science + Technology

Plaza 600 Building
600 Stewart St, Suite 1700
Seattle, WA 98101
www.geoengineers.com

Penn Plaza Industrial Park
P. Trip McConkey

1723 Pennsylvania Ave.
Bremerton, Wa. 98337
www.pennplaza.biz

Off (360) 377-4457
Cell (360) 265-9128
Fax (360) 377-3653
trip@pennplaza.biz

Jim
253 405 8377 / JT 253 320 4147

ecology and environment, inc.

Recycled Paper/569129 Sunny Brewer - WA DOE