

October 12, 2012

Washington State Department of Ecology
300 Desmond Drive SE
Lacey, Washington 98503

Attention: Michael Kuntz

Subject: Additional Information in Relation to Request for Opinion
Work Plan for Soil and Indoor Air Compliance Monitoring
Snelson Site (SCI Properties, LLC)
601 West State Street
Sedro-Woolley, Washington
VCP Number NW1719
File No. 7408-002-08

1. Rationale and justification for selecting the soil sampling locations in Table 1. Rationale and justification for excluding any potential sampling locations where (historic) contaminant concentration values exceeded MTCA Method A cleanup levels.

Response:

Table 1 from the August 29, 2012, "Work Plan, Soil and Indoor Air Compliance Monitoring Plan," submitted to Ecology, lists all of the historic soil samples not previously overexcavated where contaminant concentration values exceeded MTCA Method A cleanup levels. We did not exclude any potential sampling locations where historical contaminant concentration values exceeded MTCA Method A.

Previous soil sample analytical results are described in extensive detail in GeoEngineers' February 25, 2008 letter, "Response to Ecology's Comments," and summarized in the August 25, 2009, "Supplemental Site Characterization, Focused Feasibility Study and Cleanup Action Plan." These documents describe that as of 2008, the only locations with historic contamination in soil exceeding MTCA Method A cleanup levels were at what was known as Remedial Excavation 5 (the Former Gasoline UST Excavation), and Remedial Excavation 4 (the Former Waste Oil AST Excavation). Supplemental site characterization was undertaken in 2008 to fill the site characterization data gaps related to overexcavated samples.

2. Arsenic concentration values for the five soil samples taken west of building No. 2.

Response:

Soil Sample Identification	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	GeoEngineers' Report Date
TP-E-0.6	02/23/99	0.6	33.6	07/23/99
SS-16-0.0	05/03/99	Surface	15.7	07/23/99
SS-17-0.0	05/03/99	Surface	5.79	07/23/99
SS-18-0.0	05/03/99	Surface	7.44	07/23/99
SS-19-0.0	05/03/99	Surface	4.57	07/23/99

bgs = below ground surface

mg/kg = milligrams per kilogram

3. Historic arsenic concentration values and corresponding sampling date for groundwater sampled in MW-5, MW-6, and MW-10.

Response:

This information is included in Table 1 of GeoEngineers', "Results of Post-Treatment Groundwater Compliance Monitoring," dated August 29, 2012.

4. Data set used for the evaluation of background arsenic. Correspond the individual arsenic concentration value to the depth of the sample, distance from the site, and – if readily available the geologic formation or stratum in which the sample was taken.

Response:

A revised Table 3 and Table 4 are attached, based on readily available information. We obtained available well logs from Ecology and have included those as an attachment to this letter.

Please contact Dana Carlisle of GeoEngineers (425-861-6040) if you have questions regarding these documents.

Yours very truly,

GeoEngineers, Inc.



Dana Carlisle PE

Principal

DLC:lw

Attachments:

Revised Table 3 and Table 4

Ecology Well Logs

cc: SCI Properties, LLC.
601 West State Street
Sedro-Woolley, Washington 98284
Attention: David Gaines

Table 3
Summary of Arsenic Data from WA State Department of Health
SCI Properties LLC, 601 West State Street
Sedro-Woolley, Washington

Water Well Identification (Well Owner)	Approximate Distance between Well and Snelson Site (miles)	Direction from Site	Reported Arsenic Concentration (mg/L)	DOH Database Sample #	Sample Type	Date Sampled	Well Depth (ft)	Sample Depth	Geologic Formation	DOE Well Tag No.
Camp Brotherhood	13.2	S	0.002	10039	Pre-Treatment/Raw	9/27/2002	15	Well screen between 15 and 65 feet	Most likely Qvt, glacial till. May be Qgo(s), Qgo (continental glacial outwash)	AET049
Samish Grade School	5.9	N	0.002	58610	Pre-Treatment/Raw	10/8/2007	118	Well screen between 108 and 118 feet bgs	Most likely Qgom(e), Pleistocene marine glacial outwash. May be Qgo(s), Qgo (continental glacial outwash)	AET041
Prairie Estates Water System	5.3	N	0.012	10047	Pre-Treatment/Raw	3/21/2012	128	Well screen between 115 and 128 feet bgs	Most likely Qgo(s), Qgo continental glacial outwash; may be Qga (Vashon advance outwash)	AET038
Double Creek Water Assn	5.6	NW	0.037	10052	Treated	4/10/2007	140	Not Known	Unable to locate well log	AEI044
Delvan Hill	2.2	NW	0.040	12248	Pre-Treatment/Raw	11/22/2002	80	Not Known	Unable to locate well log	AEH765
Eagle Valley Water System	4.8	NE	0.009	88273	Pre-Treatment/Raw	6/16/2003	172	Well screen between 162 and 172 feet bgs	Either Qgdm(e), Pleistocene glacial marine drift or Qgom(e), Pleistocene Marine Glacial outwash	AET031
Skagit Co PUD - Alger	9.3	NW	0.006	8302	Treated	7/31/2003	51	Well screen between 35 and 46 feet bgs	Either Qgdm(e), Pleistocene glacial marine drift or Qgom(e), Pleistocene Marine Glacial outwash, or Qgt, till	AER350
Humphrey Hill Water System	6.0	NW	0.002	6039	Pre-Treatment/Raw	6/26/2002	325	Static water level at 280 feet bgs	Either Qgdm(e), Pleistocene glacial marine drift or Qgt, till	Not Listed
Cedar Creek Water System	2.7	N	0.002	2471	Pre-Treatment/Raw	3/10/2003	400	Well screen between 395 and 400 feet bgs	Either Qgdm(e), Pleistocene glacial marine drift or Qgom(e), Pleistocene Marine Glacial outwash	Not Listed
Hamilton Water Dept	12.6	E	0.002	30443	Treated	10/2/2007	200	Well screen between 185 and 200 feet bgs	Qgo, Continental glacial outwash	AEN137

References:
Well logs: Ecology's on-line well log search <http://apps.ecy.wa.gov/wellog/textsearch.asp> and Ed Young, Department of Ecology Water Resources Department, Lacey WA
Arsenic Data: Washington State Department of health on-line database <https://fortress.wa.gov/doh/eh/portal/odw/si/FindWaterQuality.aspx> using the following search criteria:
Well Search Criteria: Active, Skagit County, Source Type Well , Test Panel Arsenic , Source Use Permanent, Non-transient, non community
Geology: Washington Interactive Geologic Map: <https://fortress.wa.gov/dnr/geology/?Theme=wigm; 1:100,000 Scale>, Washington State Department of Natural Resources, Division of Geology, 2012

Table 4

Department of Ecology MTCA Stats Background Calculations for Department of Health Arsenic Data

SCI Properties LLC, 601 West State Street

Sedro-Woolley, Washington

Data (mg/L)	ID	MTCASat 3.0			
0.002	Camp Brotherhood	Number of samples		Uncensored values	
0.002	Samish Grade School	Uncensored	10	Mean	0.01
0.002	Prairie Estates Water System	Censored	0	Lognormal mean	0.01
0.002	Double Creek Water Assn	TOTAL	10	Std. devn.	0.01
0.002	Delvan Hill			Median	0.004
0.006	Eagle Valley Water System			Min.	0.002
0.009	Skagit Co PUD - Alger			Max.	0.04
0.012	Humphrey Hill Water System	Lognormal distribution?		Normal distribution?	
0.037	Cedar Creek Water System				
0.04	Hamilton Water Dept				
		r-squared is: 0.82		r-squared is: 0.69	
		Distribution selection		Value corresponding	
		1		Enter percentile to that percentile is:	
		1 = Lognormal		90	0.035
		2 = Normal		50th	0.006
		3 = Nonparametric method		4 X 50th	0.022
		Coefficient of Variation = 2.62			

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 11902

Permit No. G1-00113P

(1) OWNER: Name Foothills Investment Company Address Grand Central on the Park
Seattle, Washington 98104

(2) LOCATION OF WELL: County Skagit NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 31 T 33 N, R 5E W.M.
Bearing and distance from section or subdivision corner 1170' S and 1170' W of NE corn. Sec 31

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well #3 (4-3)
(if more than one)
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 75 ft. Depth of completed well 75 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 75 ft.
Threaded ☐ " Diam. from 0 ft. to 0 ft.
Welded ☐ " Diam. from 0 ft. to 0 ft.

Perforations: Yes ☒ No ☐

Type of perforator used M.I.I.S.
SIZE of perforations 1.5 in. by 3.75 in.
20 perforations from 15 ft. to 65 ft.
perforations from 0 ft. to 0 ft.
perforations from 0 ft. to 0 ft.

Screens: Yes ☐ No ☒

Manufacturer's Name _____ Model No. _____
Type _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 15 ft.
Material used in seal _____
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off 7 S.A.C.R. MIX CONC

(7) PUMP: Manufacturer's Name Red Jacket Pump Co.
Type: Submersible HP 7 1/2

(8) WATER LEVELS: Land-surface elevation _____ ft.
above mean sea level.
Static level _____ ft. below top of well Date 5/12/71
Artesian pressure 3 lbs. per square inch Date 5/12/71
Artesian water is controlled by C.A.P. (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Yield: 1300 gal./min. with 17 ft. drawdown after 8 hrs.
1300 " " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
0	17				
01	18				

Date of test 5/12/71
Ballor test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow 27.5 g.p.m. Date 5/12/71
Temperature of water 46 Was a chemical analysis made? Yes ☒ No ☐

(10) WELL LOG:

33/05-31A

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Hard pan	0	15
Coarse gravel + water	15	70
Sandstone	70	75

Work started 4/22, 19 71 Completed 5/12, 19 71

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Koonke 1 Well Drilling
(Person, firm, or corporation) (Type or print)

Address 797 14 Smith Rd Camano Is Wn
98292

[Signed] Ray Koonke
(Well Driller)

License No. 247 Date 11/13, 19 74

(USE ADDITIONAL SHEETS IF NECESSARY)

Cedar Creek

ENTERED

WATER WELL REPORT

File Original and First Copy with
Department of EcologySecond Copy — Owner's Copy
Third Copy — Driller's Copy

STATE OF WASHINGTON

Water Right Permit No.

Start Card No. W077530UNIQUE WELL I.D. # ACS 07035-4E-11C(1) OWNER: Name Randy Manske Address Seattle(2) LOCATION OF WELL: County Stagit NE 1/4 NW 1/4 Sec 11 T. 35 N. R. 4 WM.(2a) STREET ADDRESS OF WELL (or nearest address) Mosier Rd Sacko-Woolley Wash(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐
☐ Irrigation ☐ Test Well ☐ Other ☐
☐ DeWater ☐ Rotary ☐ Jetted ☐(4) TYPE OF WORK: Owner's number of well (if more than one) _____
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 400 feet. Depth of completed well 400 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from -2 ft. to 400 ft.
Welded ☐ " Diam. from _____ ft. to _____ ft.
Liner installed ☐ " Diam. from _____ ft. to _____ ft.
Threaded ☐ " Diam. from _____ ft. to _____ ft.Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.Screens: Yes ☒ No ☐
Manufacturer's Name ?
Type _____ Model No. _____
Diam. 5" Slot size 12 from 395 ft. to 400 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentone
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____ H.P. _____

(8) WATER LEVELS: Land surface elevation above mean sea level _____ ft.
Static level 151 ft. below top of well Date Feb 27
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Waggoner
Yield: 10 gal./min. with 12 ft. drawdown after 2 hrs.Time Water Level Time Water Level Time Water Level
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Date of test _____

Baller test 70 gal./min. with 86 ft. drawdown after 2 hrs.

Airstest _____ gal./min. with stem set at _____ ft. for _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Clay	1	5
Clay Sand & gravel	5	43
Hardpan glacial till	43	200
mud & sand	200	202
Clay Blue	202	290
Fine Sand Silt 4 gpm	290	292
Clay Blue	292	300
Sand gravel & clay	300	303
Trace of water lot		
of sand	303	395
Clay Blue	395	400
Sand gravel & silt		
water		

Well Site meets Standard
Set in 12-48 according
to info provided by owner

RECEIVED

JUN 4 1999

DEPT OF ECOLOGY

Work Started Feb 19 19. Completed Feb 27 19 99

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Prince Well Drilling
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)Address 7940 NE Cape Horn Rd Concrete(Signed) Waggoner License No. 1898
(WELL DRILLER)Contractor's
Registration
No. PrincW009564 Date March 13 19 99

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 61-25549

Permit No. _____

(1) OWNER: Name Kan Out

Address 1346 Old Highway 79 Mt. Vernon Wn

(2) LOCATION OF WELL: County Snohomish

Bearing and distance from section or subdivision corner (625' at 900' S-NW cor) (NW 1/4 NW 1/4)

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 172 ft. Depth of completed well 172 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 172 ft.
Threaded ☐ " Diam. from _____ ft. to _____ ft.
Welded ☒ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐ Johnson's
Manufacturer's Name Johnson's
Type stainless steel Model No. _____
Diam. 5" Slot size 14 from 162 3/4 ft. to 165 3/4 ft.
Diam. 3" Slot size 25 from 165 3/4 ft. to 168 1/2 ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Cement + cuttings
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name Thint + Walhing
Type: Submersible HP 3

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 376.8 ft. below top of well Date 2/15/80
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Yield: 68 gal./min. with 20.8 ft. drawdown after 6 hrs.
" 68 " " 11.4 " 30 min
" 68 " " 9.6 " 1.5 min

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
3 min	76.4				
2 min	76.4				
3 min	76.4				

Date of test 2/15/80

Ballot test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown Gravel	0	15
Green Clay + Gravel + Sand	15	20
Brown Silty Clay + fine Sand	20	25
Gray Silty Clay + fine Sand	25	60
Gray mostly Clay + fine Sand	60	70
Gray Clay with very little Sand	70	80
Light Gray Clay with very little Sand	80	90
Gray mic. by Clay + fine Sand	90	110
Dark Gray Clay + fine Sand	110	125
Gray Clay + fine Sand	125	144
Some big rocks + fine Sand	144	162
Fine Sand + water Gravel	162	169
Gray Sand + coarse water Gravel	169	172

Work started 1-25, 1980 Completed 2-15, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Countrymen Well Drilling
(Person, firm, or corporation) (Type or print)

Address 319 Colony Rd. Bellingham 98232

[Signed] Allen E. Countrymen
(Well Driller)

License No. 0080 Date 2/25, 1980

Hamilton

ENTERED

WELL REPORT

Start Card No. W 116463
 Unique Well I.D. # AEN137
 Water Right Permit No. GL-24501C

STATE OF WASHINGTON

=====

(1) OWNER: Name TOWN OF HAMILTON Address 584 MAPLE STREET HAMILTON, WA 98255-
 =====

(2) LOCATION OF WELL: County SKAGIT - SW 1/4 NW 1/4 Sec 12 T 35 N., R 6E WM
 (2a) STREET ADDRESS OF WELL (or nearest address) , 35-6E-12E
 =====

(3) PROPOSED USE: MUNICIPAL (10) WELL LOG
 =====

(4) TYPE OF WORK: Owner's Number of well Formation: Describe by color, character, size of material
 (If more than one) and structure, and show thickness of aquifers and the kind
 Method: ROTARY and nature of the material in each stratum penetrated, with
 at least one entry for each change in formation.
 =====

NEW WELL
 (5) DIMENSIONS; Diameter of well 8 inches
 Drilled 200.5 ft. Depth of completed well 200.5 ft.
 =====

(6) CONSTRUCTION DETAILS:
 Casing installed: 8 " Dia. from +2.5 ft. to 184.5 ft.
 WELDED " Dia. from ft. to ft.
 " Dia. from ft. to ft.
 =====

Perforations: NO
 Type of perforator used
 SIZE of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.
 =====

Screens: YES
 Manufacturer's Name JOHNSON
 Type STAINLESS STEEL Model No. TELESCOPING
 Diam. 8 slot size 60 from 185.5 ft. to 200.5 ft.
 Diam. slot size 0 from 183 ft. to 185.5 ft.
 =====

Gravel packed: NO Size of gravel
 Gravel placed from ft. to ft.
 =====

Surface seal: YES To what depth? 18 ft.
 Material used in seal BENTONITE
 Did any strata contain unusable water? NO
 Type of water? Depth of strata ft.
 Method of sealing strata off
 =====

(7) PUMP: Manufacturer's Name Type H.P.
 =====

(8) WATER LEVELS: Land-surface elevation
 above mean sea level ... ft.
 Static level 83.3 ft. below top of well Date 06/23/99
 Artesian Pressure lbs. per square inch Date
 Artesian water controlled by
 =====

(9) WELL TESTS: Drawdown is amount water level is lowered below
 static level.
 Was a pump test made? If yes, by whom?
 Yield: gal./min with ft. drawdown after hrs.
 =====

Recovery data
 Time Water Level Time Water Level Time Water Level
 =====

Date of test / /
 Bailer test gal/min. ft. drawdown after hrs.
 Air test 400+ gal/min. w/ stem set at 180 ft. for 2 hrs.
 Artesian flow g.p.m. Date
 Temperature of water Was a chemical analysis made?
 =====

MATERIAL FROM TO
 BROWN CLAY 0 8
 GRAVEL & BRN SILTY SAND 8 68
 SAND GRAVEL & WATER 68 90
 BRN SILTY SAND & GRAVEL 90 102
 GRAY CLAY & SOME GRAVEL 102 115
 GRAVEL & GRAY CLAY 115 126
 BROWN CLAY & SAND 126 135
 BROWN SAND & WATER 135 152
 GRAY CLAY & GRAVEL 152 156
 BROWN SANDY CLAY 156 168
 FINE GRAY SAND & WATER 168 170
 GRAY CLAY BROWN CLAY & SAND 170 181
 WATER GRAVEL COARSE SAND 181
 =====

Well Located According To
 Skagit County Ordinance # 12.48

RECEIVED
 JUL 6 1999
 DEPT OF ECOLOGY

Work started 06/21/99 Completed 06/23/99

=====

WELL CONSTRUCTOR CERTIFICATION:
 I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.
 =====

NAME DAHLMAN PUMP & WELL DRILL
 (Person, firm, or corporation) (Type or print)
 =====

ADDRESS PO BOX 422
 [SIGNED] License No. 2043
 Contractor's
 Registration No. DAHLEMPW123LC Date 06/25/99
 =====

Humphrey Hill Water System
ENTERED

WATER WELL REPORT

Start Card No. 70304
Unique Well I.D. #
Water Right Permit No.

STATE OF WASHINGTON

(1) OWNER: Name CORNETT, MARK Address 4415 SANJUAN AVE ANACORTES, WA 98221-36-4E-29Q

(2) LOCATION OF WELL: County SKAGIT - SW 1/4 SE 1/4 Sec 29 T 36 N., R 4 WM

(2a) STREET ADDRESS OF WELL (or nearest address) END OF HUMPHRY HILL RD, BURLINGTON

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK: Owner's Number of well 1
NEW WELL Method: ROTARY

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 328 ft. Depth of completed well 325 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 325 ft.
WELDED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: NO
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: NO
Manufacturer's Name
Type Model No.
Diam. slot size from ft. to ft.
Diam. slot size from ft. to ft.

Gravel packed: NO
Gravel placed from ft. to ft.

Surface seal: YES To what depth? 18+ ft.
Material used in seal BENTONITE
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off PRESSURE GROUT

(7) PUMP: Manufacturer's Name FLYNT&WALLING
Type SUBMERSIBLE H.P. 1.5

(8) WATER LEVELS: Land-surface elevation
above mean sea level ... ft.
Static level 280 ft. below top of well Date
Artesian Pressure lbs. per square inch Date
Artesian water controlled by CAP

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

Recovery data
Time Water Level Time Water Level Time Water Level

Date of test / /
Bailer test gal/min. ft. drawdown after hrs.
Air test 10 gal/min. w/ stem set at 323 ft. for 4 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? NO

(10) WELL LOG
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
DARK BROWN TOPSOIL	0	2
LIGHT BROWN SAND&GRAVEL	2	12
GRAY CLAY SAND&GRAVEL	12	160
GRAY CLAY SAND&GRAVEL	160	180
BROWN CLAY SAND&GRAVEL	180	200
BROWN CLAY SAND&GRAVEL	200	260
BROWN CLAY SAND&GRAVEL COBBLES	260	300
BROWN SAND	300	318
BROWN SAND&GRAVEL WATER	318	325

RECEIVED
MAY 28 1996
DEPT. OF ECOLOGY

Work started 04/28/96 Completed 05/03/96

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DYNATRAX INC.
(Person, firm, or corporation) (Type or print)

ADDRESS 211 COLUMB RD. 724-4724

[SIGNED] License No. 1938

Contractor's
Registration No. DYNATI*077LS Date 05/24/96

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name George Theodoratus

Address Lois Lane, Schroton, NY

(2) LOCATION OF WELL: County Skagit

NE 1/4 Sec 26 T 36 N, R 4 E

Bearing and distance from section or subdivision corner

Prairie Estates

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 128 ft. Depth of completed well 128 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 115 ft.
Threaded ☐ " Diam. from _____ ft. to _____ ft.
Welded ☒ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson
Type Stainless Steel Model No. _____
Diam. 6 Slot size 100 from 115 ft. to 125 ft.
Diam. 6 Slot size 50 from 125 ft. to 128 ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name Berkeley
Type Sub. 4CM7 H.P. 2

(8) WATER LEVELS: Land-surface elevation _____ ft. above mean sea level.
Static level 19 ft. below top of well Date 5-23-83
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? D. Hayes
Yield: 100 gal./min. with 12 ft. drawdown after 28 hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
0	30'0 1/2"	2 1/2 hrs.	21'		
10 min	29'0 1/2"				
105 min	26'3"				

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☒ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown Gravel	0	14
Brown gravel and clay	14	17
Gray clay and little gravel	17	18
Brown clay	18	24
Brown gravel and little clay	24	38
Brown med sand and seepage	38	45
Brown clay	45	47
Gray clay and gravel	47	50
Gray fine sand and water with layers of hard clay	50	57
Gray fine to med sand and water	57	78
Gray clay	78	96
Gray clay and gravel	96	106
Gray gravel and water	106	128

Work started 5-23, 1983. Completed 5-23, 1983.

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Hayes Well Drilling & Pumps, Inc.
(Person, firm, or corporation) (Type or print)

Address 1413 Colony Rd. Bow Washington

[Signed] Steve Gilbert
(Well Driller)

License No. 762 Date 5-31, 1983.

(USE ADDITIONAL SHEETS IF NECESSARY)

AMENDED COPY

36-4E-25A

Samish Grade School

WATER WELL REPORT STATE OF WASHINGTON

Start Card No. 073528
Water Right Permit No.

(1) OWNER: Name SEDRO WOOLLEY SCHOOL DIST Address 2079 COOK RD SEDRO WOOLLEY, WA 98284-
(2) LOCATION OF WELL: County SKAGIT -NE 1/4 NE 1/4 Sec 25 T 36 N., R 4 W1
(2a) STREET ADDRESS OF WELL (or nearest address) SAMISH ELEMENTARY, SEDRO W

(3) PROPOSED USE: OTHER

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well (If more than one) 1
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 118 ft. Depth of completed well 118 ft.

MATERIAL	FROM	TO
GRAVEL BROWN CLAY	0	63
GRAVEL SAND WATER	63	68
BLUE CLAY	68	102
WATER COARSE SAND	102	118

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Dia. from 0 ft. to 118 ft.
WELED " Dia. from ft. to ft.
" Dia. from ft. to ft.

Perforations: NO

Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: YES

Manufacturer's Name
Type STAINLESS STEEL Model No.
Diam. 6 slot size 20 from 108 ft. to 113 ft.
Diam. 6 slot size 20 from 113 ft. to 118 ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

RECEIVED

FEB 23 2009

DEPT. OF ECOLOGY

(7) PUMP: Manufacturer's Name
Type H.P.

(8) WATER LEVELS: Land-surface elevation
above mean sea level ... ft.
Static level 63 ft. below top of well Date 08/16/91
Artesian Pressure lbs. per square inch Date
Artesian water controlled by

Work started 08/16/91

Completed 08/16/91

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Recovery data

Time	Water Level	Time	Water Level	Time	Water Level
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NAME DAHLMAN PUMP & WELL DRILL
(Person, firm, or corporation) (Type or print)

ADDRESS PO BOX 422, BURLINGTON, WA

(SIGNED) *Red Beck* License No. 0623

Contractor's
Registration No. DAHLMPW123LC Date 08/21/91

Date of test / /
Bailer test gal./min. 47 ft. drawdown after hrs.
Air test 35 gal./min. w/ stem set at 113 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made?

Skagit Co PuD - Ayer

136,46-8M
File number

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

No. Appl. 5743

WELL LOG
Date 11-22, 1960

Record by well
Source driller's record

Location: State of WASHINGTON

County Skagit

Area

Map

NW 1/4 SW 1/4 sec. 8 T. 36 N., R. 4 E. 1/4

Diagram of Section

Drilling Co. A. G. Kaunkel

Address Stanwood, Wash.

Method of Drilling Date Sept. 1960

Owner Alger Community Club, Inc.

Address Rt. 5, Bellingham, Wash.

Land surface, datum ft. above below

CORRE- LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
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(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Yellow clay	25	25
	Gravel	1	26
	Blue clay	9	35
	Gravel - water	4	39
	Sandstone	2	41
	Coarse Gravel	10	51
	PUMP TEST.		
	Dim. 6"x51'		
	3Wkx		
	Flowing Well-		
	Measured discharge 75 g.p.m. on Sept. 15, 1960		
	Shut-in pressure at ground surface 8 lbs. per sq.in. on Sept. 15, 1960		
	Water is controlled by cap & valve		
	Type and size of pump: 3 h.p. Jet		
	(over)		

Turn up

Sheet ... of ... sheets

