

## **Appendix M:**

Earth Resources and Groundwater Documentation

Nelson Geotechnical Associates, Inc.  
Geotechnical Engineering Evaluation  
September 2006



**GEOTECHNICAL ENGINEERING  
EVALUATION  
WOOD TRAILS  
WOODINVILLE, WASHINGTON  
PREPARED FOR  
THE CITY OF WOODINVILLE**

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September 19, 2006

Steve Munson  
The City of Woodinville  
17301-133<sup>rd</sup> Avenue NE  
Woodinville, Washington 98072

Geotechnical Engineering Evaluation  
**Wood Trails**  
**Woodinville, Washington**  
NGA File No. 409205

Dear Mr. Munson:

This letter presents the results of our engineering geologic and geotechnical consultation of the Wood Trails project in Woodinville, Washington.

## **INTRODUCTION**

We have been providing consultation and review services for the Woods Trails project as shown on the Vicinity Map in Figure 1. We have reviewed the previously prepared geotechnical reports for the project and the January 2006 Draft EIS issued by the City. For our use, we have been provided with reports titled “Geotechnical Engineering Study – Wood Trails Residential Development – Woodinville, Washington,” prepared by Earth Consultants, Inc., dated June 9, 2005, as well as the report titled “Addendum Geotechnical Engineering Report – Wood Trails Residential Development – Woodinville, Washington,” prepared by Earth Consultants, Inc., dated February 14, 2005. We were also provided with written review comments from the public meeting that occurred on February 16, 2006. We have also reviewed well logs submitted to the Department of Ecology.

Several exploration programs have been conducted on the site by Earth Consultants, Inc., and subsequently by Earth Solutions NW, LLC in July 2003, February, April, September, 2004, January 2005

and June 2006. These explorations have consisted of test pits, borings, and hand augers. The approximate locations of the explorations are shown on the Overall Site Map presented as Figure 2.

We were requested by the City of Woodinville to provide additional engineering geologic and geotechnical review of the DEIS document. This review is intended to provide an independent delineation of the DEIS regarding geologic, geotechnical, and groundwater conditions. Our review included the existing documentation and our own field visits, beginning in early 2005 until recently. We met several times with the DEIS contributors, including the proponent's consultants, and your representatives over that time period, including Mr. Chris Lawson of Tetra Tech. We visited the site many times over this period, including with and without the above personnel. As progress was made, we discussed our findings with the proponent's consultant and Mr. Lawson. This letter is the culmination of the review, field work, consultation, and discussions provided to date.

## **GEOLOGY**

Geologic conditions interpreted within the Woods Trails site are similar to those discussed in the DEIS. It is our opinion that the site is underlain by Recessional Outwash (Qvr), Glacial Till (Qvt), Advance Outwash (Qva), and Transitional Beds (Qtu). In general, it appears that dense glacial till overlies a significant portion of the property, typically as a covering over the underlying glacial outwash and transitional beds. Local recessional outwash overlies the site within at least one portion of the area. Through our review and interpretation of the existing test pit and boring logs, together with our site observations of soil outcrops, we have developed a general Surficial Geologic Map of the site presented as Figure 3. We also created several general cross-sections throughout the property to show the relationship of the soil/geology encountered in the explorations and our interpretations. Cross-Sections A-A'' through E-E'' are presented as Figures 4 through 8.

The cross sections shown on Figures 4-8 should be viewed as our interpretations of anticipated subsurface geologic and groundwater conditions based on our review of available documentation and our field visits. The cross sections are based on the Surface Geologic Map shown on Figure 3. In general, these cross sections show how the relationship of the glacial till, advance outwash, and Transitional Bed deposits correlate within this site. Assumed geologic unit contacts are inferred from available data, and may be different than actually shown. However, the intent of the cross sections is to show the geologic

relationships, and how our interpretations of geologic, slope stability, and groundwater conditions indicate presumed existing conditions.

In general, it appears the Glacial Till blankets the upslope easterly and downslope northwesterly portions of the site, and can overlie both or either the advance outwash or Transitional Bed deposits. The Advance Outwash generally underlies the till, but can be exposed near surface or be completely absent. The Transitional Bed deposits are thought to underlie the entire site at depth, but were only encountered and/or exposed within the planned area of the detention pond.

The cross sections also indicate the rationale for groundwater flow as discussed in the **Groundwater** subsection of this letter. With respect to the till, the Advance Outwash has a higher permeability. With the higher permeability Advance Outwash either exposed or underlying the till, local recharge could provide water for flow. This is evidenced by the seepage areas shown, and the problematic structural “high” indicated within the detention pond area created by the Transitional bed deposits. This is further discussed in the **Groundwater** subsection.

Recessional Outwash: The area within Test Pit 201, as shown on Figure 2, indicates the presence of granular Recessional Outwash overlying the glacial and transitional deposits. This area does not appear to be very extensive; however, other local Recessional Outwash deposits could occur in similar fashion. These deposits are derived from meltwaters of the Vashon Age glaciation, and are known to exist within the area over dense glacial and Transitional Bed deposits.

Glacial Till: As shown on Figure 3, Glacial Till comprises most of the near surface deposits within the easterly and northerly portion of the site. The till is generally dense to very dense, and is composed of a mixture of silt, sand, and gravel derived from deposition by the Vashon Age glaciers. The till deposits typically “blanket” upland areas in the Puget Sound region, and are found to exhibit this condition at the site area. Locally, Advance Outwash is found near-surface and the overlying till is absent.

Advance Outwash: These deposits are derived from meltwaters of the advancing Vashon Age glaciers, which were subsequently compacted by the weight of the glacial ice, like the Glacial Till. These deposits are more granular than the till, due to the effects of “flushing” of fines from the fluvial-type deposition.

Typically, these deposits exhibit bedding or layering, with local interbeds of sand, gravel, and silt. On this site, the Advance Outwash appears to be somewhat siltier than other more “clean” deposits of similar depositional environments. As shown on Figure 3, the Advance Outwash appears to be exposed as a “window” within the area of Glacial Till, within the northern one-half of the site. This condition can be explained as a probable remnant channel of the Advance Outwash within this particular location, in conjunction with a structural “high” as discussed below. The Advance Outwash occurs on the steeper slopes, downslope of the till within the southern one-half of the site.

Transitional Beds: It appears the site is underlain by the fine grained Transitional Bed deposits, described as interglacial, lacustrine deposits deposited prior to the latest glaciation of Vashon Age. These deposits are typically very stiff to hard, due to compaction by glacial ice. Typically, these deposits are fine-grained, consisting of silt, with varying amounts of clay and fine sand, and are generally well to massive bedded. On this site, the Transitional Bed deposits were generally encountered within the area of the planned detention pond. Both borings and deep test pits performed within this area encountered these deposits. Of particular interest is the condition encountered where the Glacial Till directly overlies the Transitional Bed deposits, with no evidence of the Advance Outwash between. This is an uncommon occurrence; however, this can probably be explained as a structural high within the area of the Transitional Bed exposures generally located within the northwestern portion of the site.

## **GROUNDWATER**

We reviewed the existing information related to groundwater within the site, and reviewed additional information and performed site observations to provide our opinion of the general groundwater conditions within this site. Groundwater was encountered by Earth Consultants, Inc. and Earth Solutions NW, LLC. in a select number of explorations on the site. Groundwater conditions were also determined through field locating of existing seeps and springs. We have shown the locations of the seepage areas that were mapped by Earth Consultants, Inc. and Earth Solutions NW, LLC on the Groundwater Seepage Location Map in Figure 9. This map shows the location of the mapped seepage areas and their relationship to each other.

The general seepage conditions were first observed during the spring of 2005, prior to seasonal vegetation growth. We noted seepage areas, and later performed field visits to map significant seepage locations.

During the 2005 springtime, we noted a somewhat greater volume of surface water flow within the drainage swale located off site toward the north than was observed during the course of the following months leading up to present. We also noted somewhat greater flow from the seepage zones observed and monitored over the last few months. This aided in our interpretation of a relatively limited near-surface groundwater recharge area within this site.

Surface water flow may increase within the main drainage swales located to the north during seasonal and severe weather events, but the conditions controlling the local recharge and the central, westerly draining swales appear to minimize the effects of surface flow. We did not observe any evidence of significant increases in the noted seepage areas, although lesser amounts of surface flow are indicated. During our field visits later in the summer, we did not observe additional areas of seepage. The seepage areas that were mapped were still visible in September after the summer months. We would consider these particular areas as chronic seepage zones, related to a near-surface groundwater condition, controlled by the presence of the Advance Outwash deposits within the area, and the limited local recharge effects.

It appears that near-surface water, derived from precipitation and local near-surface recharge, are collected within the Advance Outwash deposits and above the Transitional Bed deposits, and flow downslope to the locations shown as seepage areas. Within the northerly seepage zone area, it appears the groundwater flows within a remnant Advance Outwash channel and toward the north. The Transitional Beds act as a local underlying aquiclude, and the Advance Outwash is the local aquifer. It should be noted that the structural high discussed for the Transitional Bed deposits in the area of the proposed detention pond separates the distinct seepage areas shown. No evidence of the Advance Outwash or groundwater was found within this area.

Seepage from the northern seepage area flows downslope and into the main surface drainage area located off site within Tract A. This water flows within the drainage and is directed into a culvert that connects to the controlled drainage system located off site toward the northwest. Seepage within the central-western portion of the site exists with erosional swales that trend toward the west. No evidence of stream flow was observed from these areas, and the amount of groundwater appears to be significantly less than the seepage area located to the north. It appears that the amount of flow from these seepage areas is small, and is controlled subsurfacely off site toward the west.

We have also reviewed and compiled a group of recorded water wells from the Department of Ecology in the area in the general vicinity of the project area and presented their locations as Figures 10 and 11. The cross-sections F-F' and G-G' (Figures 12 and 13) show the groundwater encountered with respect to USGS map topography. The referenced well logs are presented as Figures W-1 through W-24.

It appears that two different groundwater levels exist within the project area. Based on the recorded well log data, a deep (>100 feet) aquifer exists that has and is being used for domestic purposes. Within the project location, this deep aquifer does not surface, nor is it connected with the surface recharge. This is generally evidenced by the presence of the very low permeability Transitional Bed deposits that underlie the glacial deposits, and is expected to underlie the entire site. The Transitional Bed deposits act as an aquiclude to separate the upper groundwater conditions from the deeper groundwater conditions. Based on the deep well data, the general direction of the deep aquifer flow is toward the northwest, and well below the influence of the project area.

The upper groundwater condition appears to be related to local recharge, due to the low permeability glacial cap, increased permeability of the local advance outwash exposed near surface, and the apparent structural "high" created by the local Transitional Bed deposits. We also noted somewhat greater flow from the seepage zones observed and monitored over the last few months as discussed above. This aided in our interpretation of a relatively limited near-surface groundwater recharge area within this site.

Elevations for the upper elevation groundwater, which shows up in the seepage areas shown on Figure 9, appears to vary from roughly elevation 290 to 360. Since the structural high is thought to separate these areas, the source of their waters may be very local; either on site or just off site from the east. The Transitional Bed deposits are thought to be the controlling factor in the actual elevations of the seepage zones.

## **SLOPE STABILITY**

The slope stability conditions discussed in the DEIS appear to be appropriate for the general site conditions reviewed and observed on site. However, during our site reconnaissance, we noted two distinct areas within the site that have displayed evidence of historic landsliding and/or should be

considered marginally stable to unstable. These areas are just north of the Wood Trails site, below the top of slope, and are shown on Figure 3.

The westerly most of these areas appears to be a historic slump/earth flow which is a mass movement which consisted of a single or multiple rotational slump at the head and a bulbous toe where disturbed material had disintegrated and partially flowed out of the failed area. From the approximate age of the vegetation noted within the area, it appears that this feature is at least 15 to 20 years old. The easterly most of these areas is an apparently ongoing surface slump, with local tension cracking, downsets, and slump blocks. Vegetation within this area indicates soil creep and generally wet surface and subsurface conditions. This particular feature appears related to the upper seepage zone shown on Figure 9. Common methods to mitigate the effects and future concerns of these particular features typically include providing adequate building setbacks from the area, and to control drainage.

An exposed soil bank area was discussed at the public meeting. We performed a site reconnaissance to determine the site conditions. It appears that this particular soil bank is located within the drainage swale within the Tract A area, just north of the site. We observed a granular soil exposure near the toe of the north-facing slope at the drainage swale. It appears this material consists of the Advance Outwash, which is being eroded at the toe by seasonal drainage within the swale. The sloughing noted consists of loose weathered soil and topsoil overlying the Advance Outwash. Erosion of the core outwash material appears to be minimal, with little or no effect to the upslope area at this time. This condition also seems to have been exacerbated by historic road fill placed across the swale just downslope of this area that has since been breached. Damming of the water within the swale probably occurred, before breaching of the road fill occurred. Saturation by water at that time may have contributed to the surface sliding in this area, but is not expected to be of issue in the future.

## **HISTORIC GROUND DISTURBANCE**

Previous grading and timber harvest activities have occurred on the site in the past. We have reviewed aerial photos from 1936, 1947, 1955, 1967, 1976, 1980, 1985, 2001, and 2004. The approximate areas of disturbance from grading are shown on Figure 2. Based on the photos it appears that approximately ¼ of the site was logged prior to 1936. During our site reconnaissance, we observed evidence of past logging including several old roads including logging roads, access roads, and paths. These areas exhibit both

cuts and fills. Where roads crossed existing drainage swales, it appears that culverts may or may not have been placed.

A discussion of “broken pipes” within the northern drainage swale near the western side was presented at the public meeting. We observed this area, and it appears that the broken pipes were a past attempt to provide concrete culvert pipes beneath an old roadway that crossed the swale in this area. Apparently, the culvert pipes were not adequate, and the roadway was breached leaving the individual concrete pipes lying within the drainage swale.

In general, the effects of past on-site disturbance have had some impact to the site. Overall, the effects appear to have been relatively minor except as discussed below. Access roadways and old logging roads were constructed across the slope and across the northerly drainage swales. The on-site disturbances are evidenced by road fills that have been washed away, concrete culverts that remain of a fill crossing, and local cut/fill areas that show signs of backwasting. Past fill and cut for these roadways may have contributed to the instability noted within the northeasterly portion of the property, and off site within Tract A. Cuts created within the residential improvement shown in the aerial photo from 1985 appear to have intersected a seepage zone of the advance outwash above the transitional bed deposits. Methods to mitigate past grading within this site generally include backsloping and erosion control within cut slopes, and removal and/or stabilization of fill slopes through engineering evaluation, design, and common stabilization techniques.



### **USE OF THIS LETTER**

NGA has prepared this letter for the City of Woodinville, and their agents, for use in the planning and design of the development planned on this site only. There are possible variations in subsurface conditions between the explorations and also with time. Our letter, conclusions, and interpretations should not be construed as a warranty of subsurface conditions. A contingency for unanticipated conditions should be included in the budget and schedule.

Within the limitations of scope, schedule, and budget, our services have been performed in accordance with generally accepted geotechnical engineering practices in effect in this area at the time this report was prepared. No other warranty, expressed or implied, is made. Our observations, findings, and opinions are a means to identify and reduce the inherent risks to the owner.

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Geotechnical Engineering Evaluation  
Wood Trails  
Woodinville, Washington  
September 19, 2006  
NGA File No. 409205  
Page 10

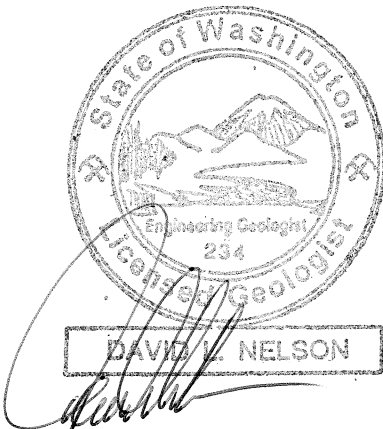
It has been a pleasure to provide service to you on this project. If you have any questions or require further information, please call.

Sincerely,

**NELSON GEOTECHNICAL ASSOCIATES, INC.**



Bala Dodoye-Alali  
Project Geologist



David L. Nelson, PG  
Professional Engineering Geologist/Hydrogeologist

BD:DLN:lam

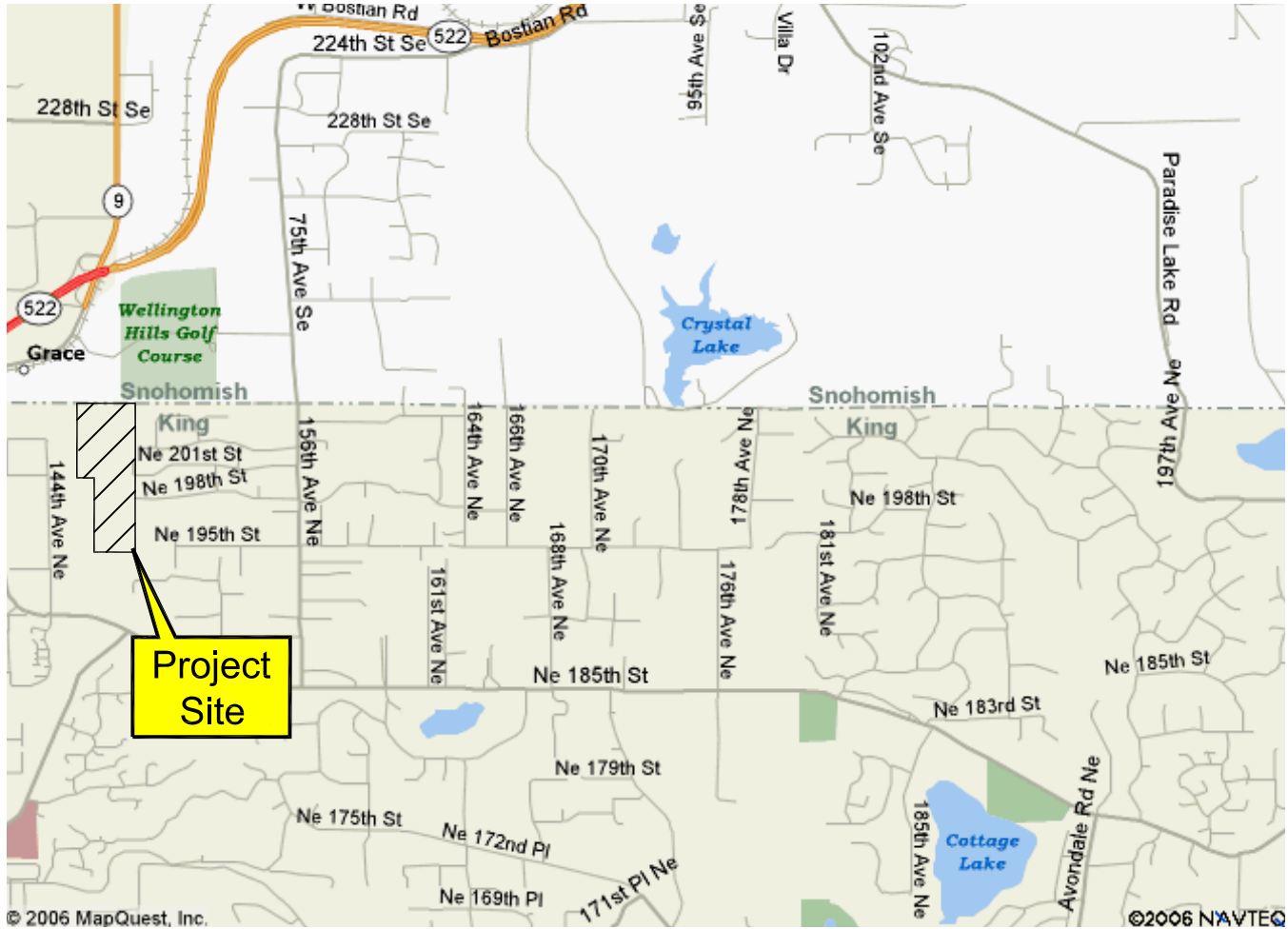
One Copy Submitted  
Thirteen Figures Attached  
Twenty-four Well Logs Attached

cc: Chris Lawson – Tetra Tech (One Copy, One CD)  
Ray Coglas, PE – Earth Solutions NW, LLC (One Copy)

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# VICINITY MAP

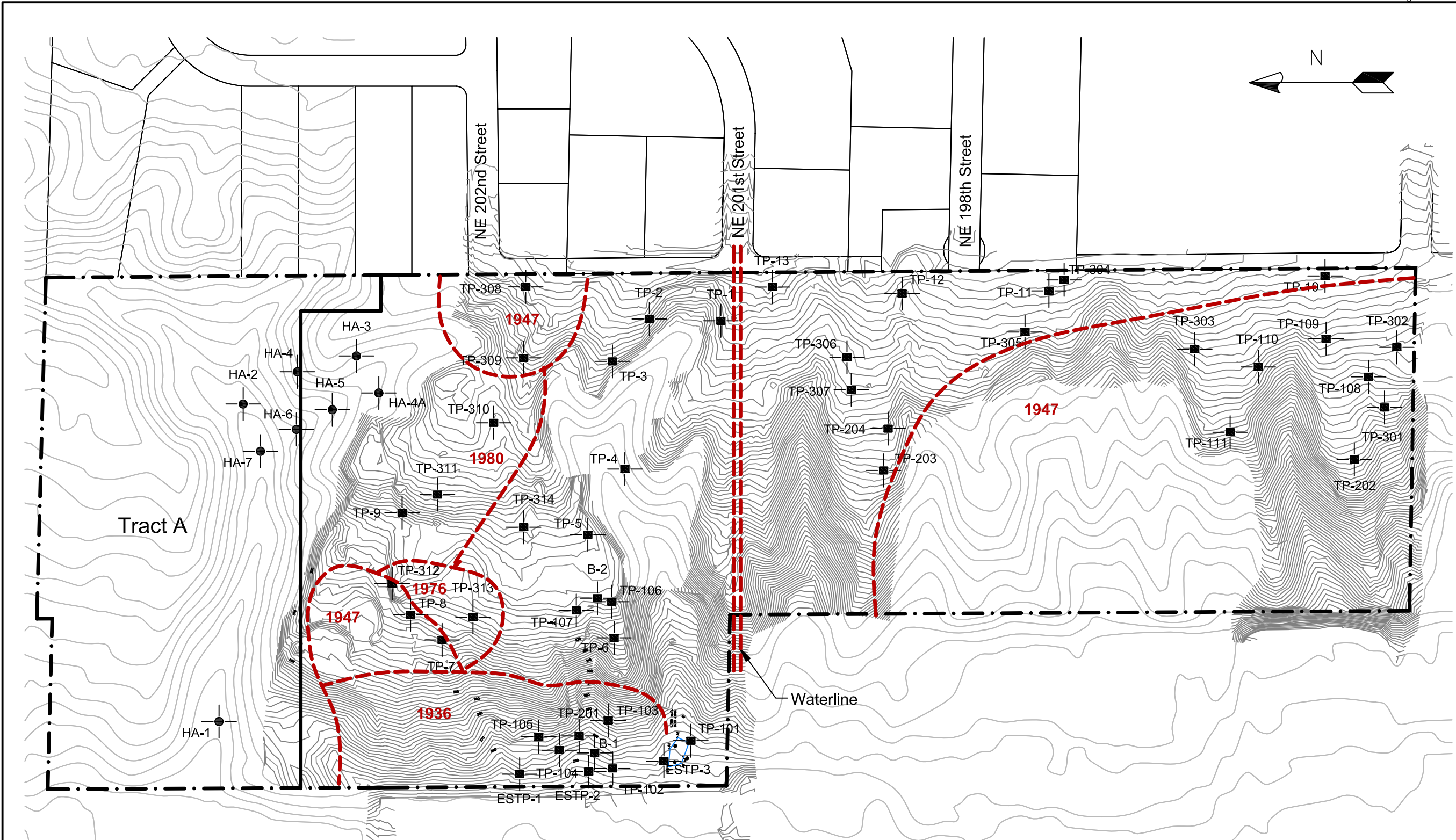
Not to Scale



## Woodinville, WA

Project Number 409205	Wood Trails Vicinity Map		No.	Date	Revision	By	CK
Figure 1			1	9/1/06	Original	ACO	BD

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**LEGEND**

--- Project boundary

TP-1  
 [Symbol] Number and approximate location of ECI Test Pit, July 2003

TP-101  
 [Symbol] Number and approximate location of ECI Test Pit, February 2004

TP-201  
 [Symbol] Number and approximate location of ECI Test Pit, April 2004

TP-301  
 [Symbol] Number and approximate location of ECI Test Pit, September 2004

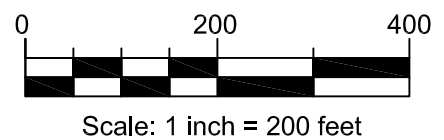
HA-1  
 [Symbol] Number and approximate location of ESNW Hand Auger, June 2006

ESTP-1  
 [Symbol] Number and approximate location of ESNW Test Pit, June 2005

B-1  
 [Symbol] Number and approximate location of ECI Boring, January 2005

1955  
 [Symbol] Date and approximate location of disturbed areas based on aerial photos

\*The maps and cross-sections produced for this study are interpretations based on our review of the provided data. Our conclusions and interpretations should not be construed as a warranty of subsurface conditions.



Reference: Site Plan based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

No.	Date	Revision	By	CK
1	8/16/06	Original	ACO	BD

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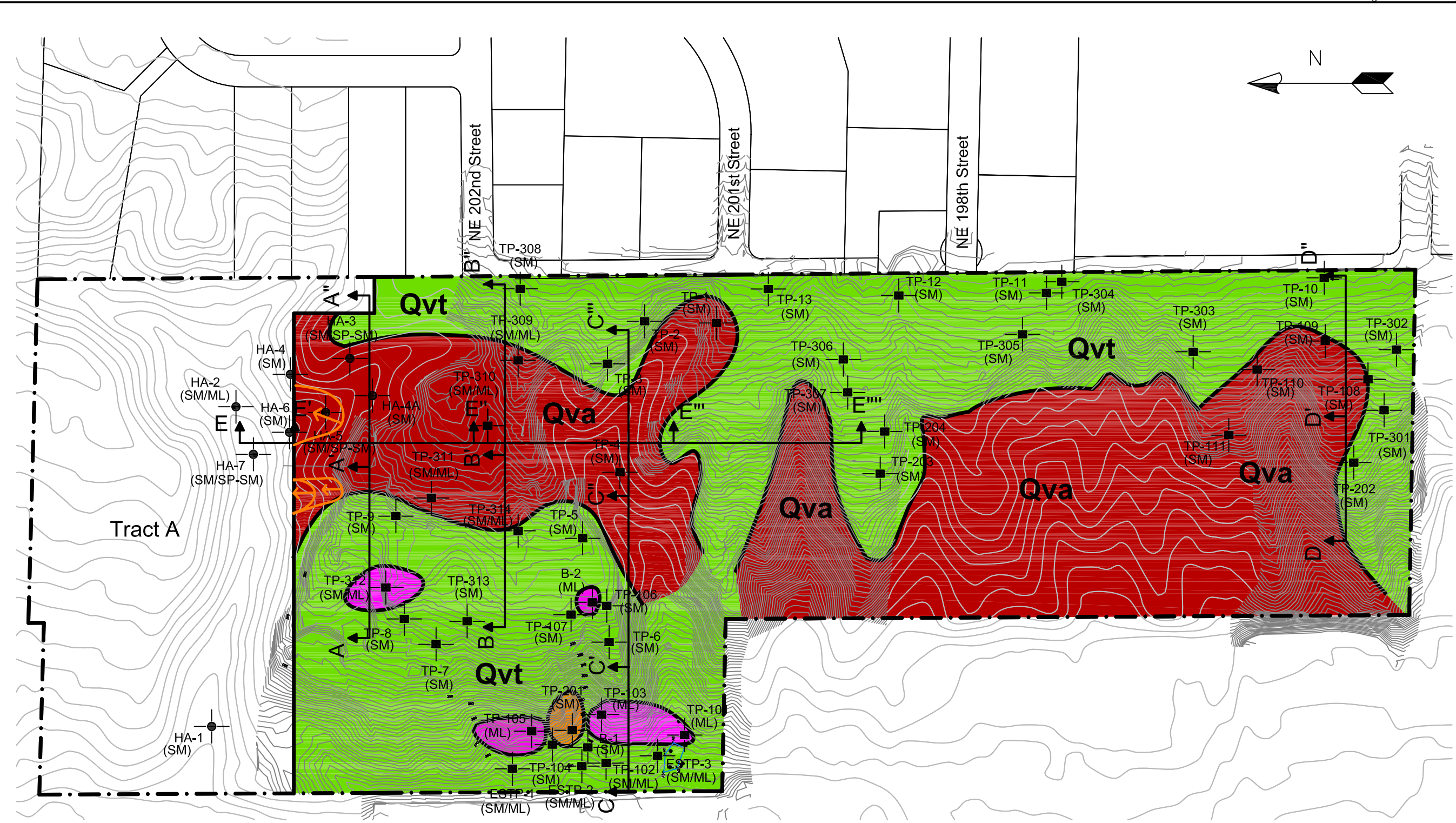
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Wood Trails  
 Overall Site Map

Project Number	409205
Figure	2

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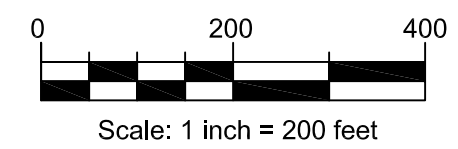


**LEGEND**

- Project boundary
- TP-1 Number and approximate location of ECI Test Pit, July 2003
- TP-101 Number and approximate location of ECI Test Pit, February 2004
- TP-201 Number and approximate location of ECI Test Pit, April 2004
- TP-301 Number and approximate location of ECI Test Pit, September 2004
- HA-1 Number and approximate location of ESNW Hand Auger, June 2006
- ESTP-1 Number and approximate location of ESNW Test Pit, June 2005
- B-1 Number and approximate location of ECI Boring, January 2005
- A A' Approximate location of cross-section

- Approximate geologic contact
- Approximate area of Sand - Recessional Outwash (Qvr)
- Approximate area of Silty Sand - Till (Qvt)
- Approximate area of Silty Sand - Advance Outwash - Local Till Cover (Qva)
- Approximate area of Silt - Transitional (Qtu)

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Reference: Site Plan based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

No.	Date	Revision	By	CK
1	8/16/06	Original	ACO	BD

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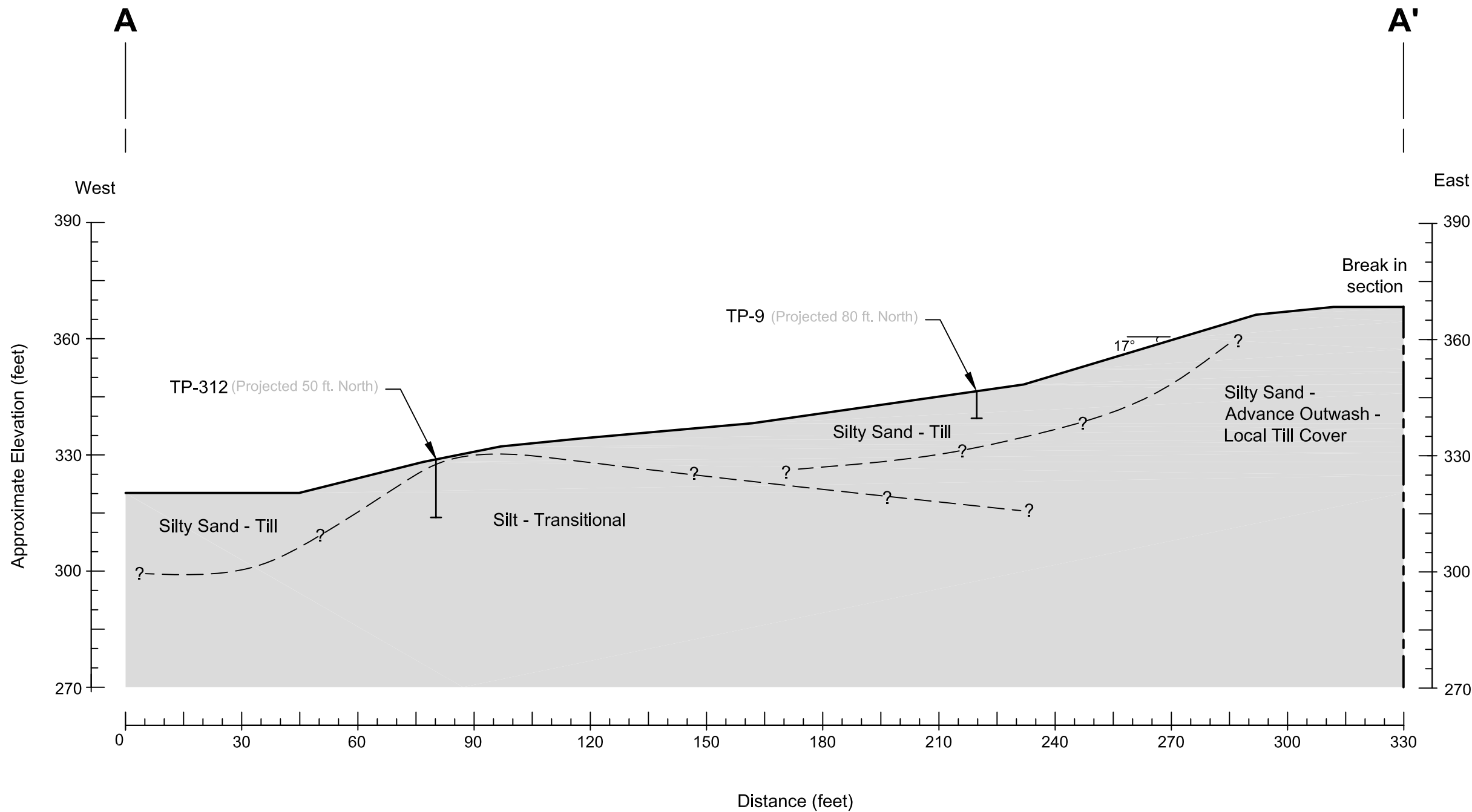
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Wood Trails  
 Geologic Site Map

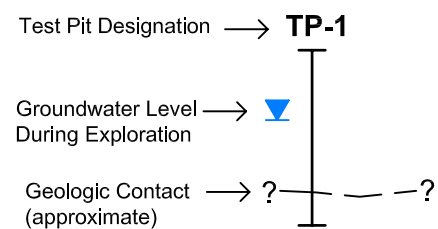
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Figure	3

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**Exploration**



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**NOTES:**

- 1) Stratigraphic conditions are interpolated between the explorations. Actual conditions may vary.
- 2) Elevations are approximate.

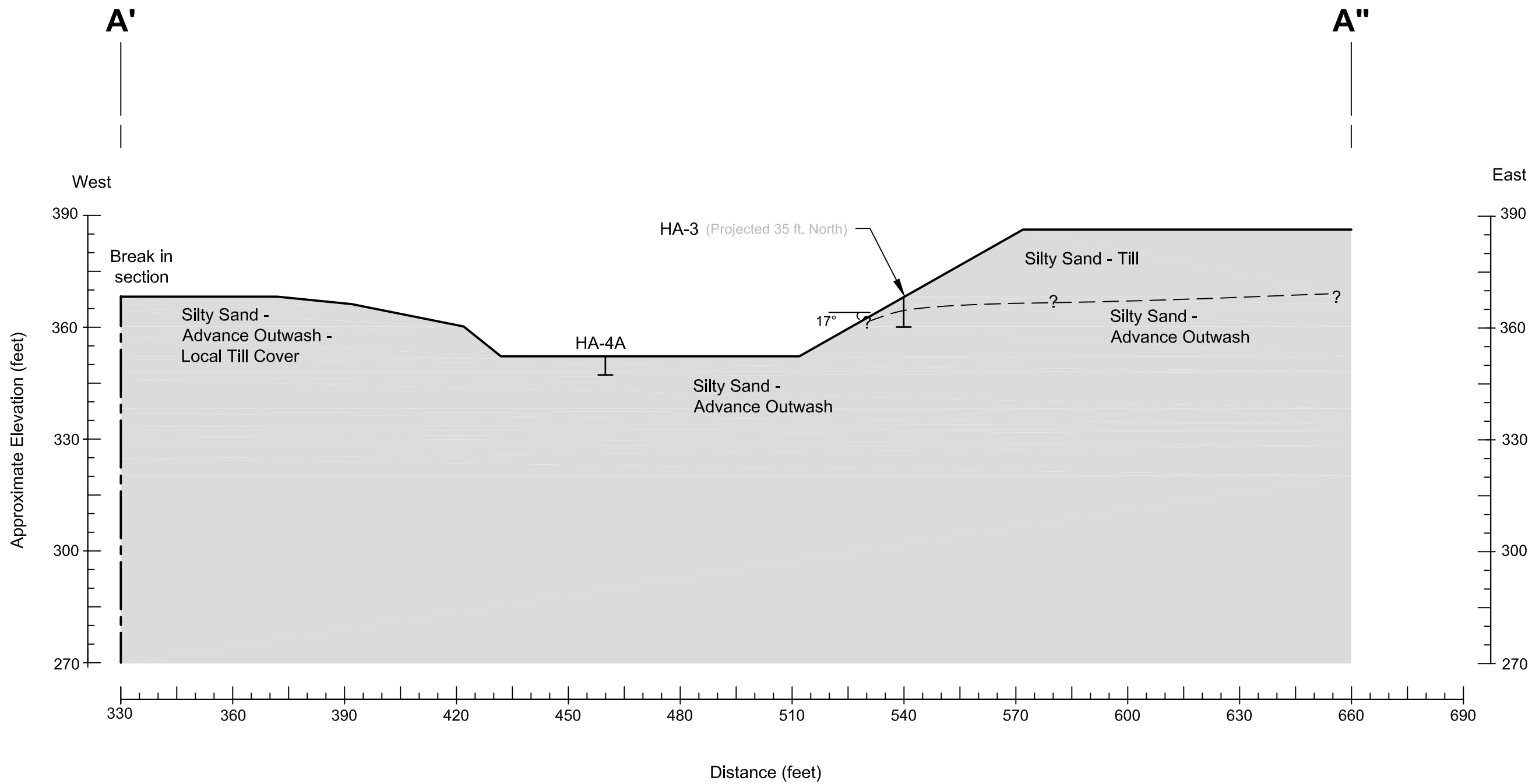
No.	Date	Revision	By	CK
1	8/31/06	Original	ACO	BD

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Wood Trails  
 Cross-Section A-A'

Project Number 409205	Figure 4	Page 1 of 2
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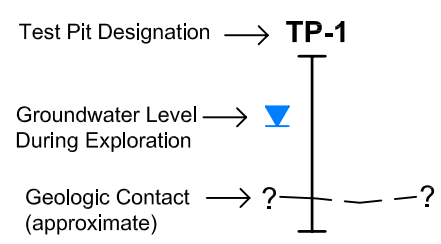
Wood Trails  
 Cross-Section A'-A''

Project Number 409205	Figure 4	Page 2 of 2
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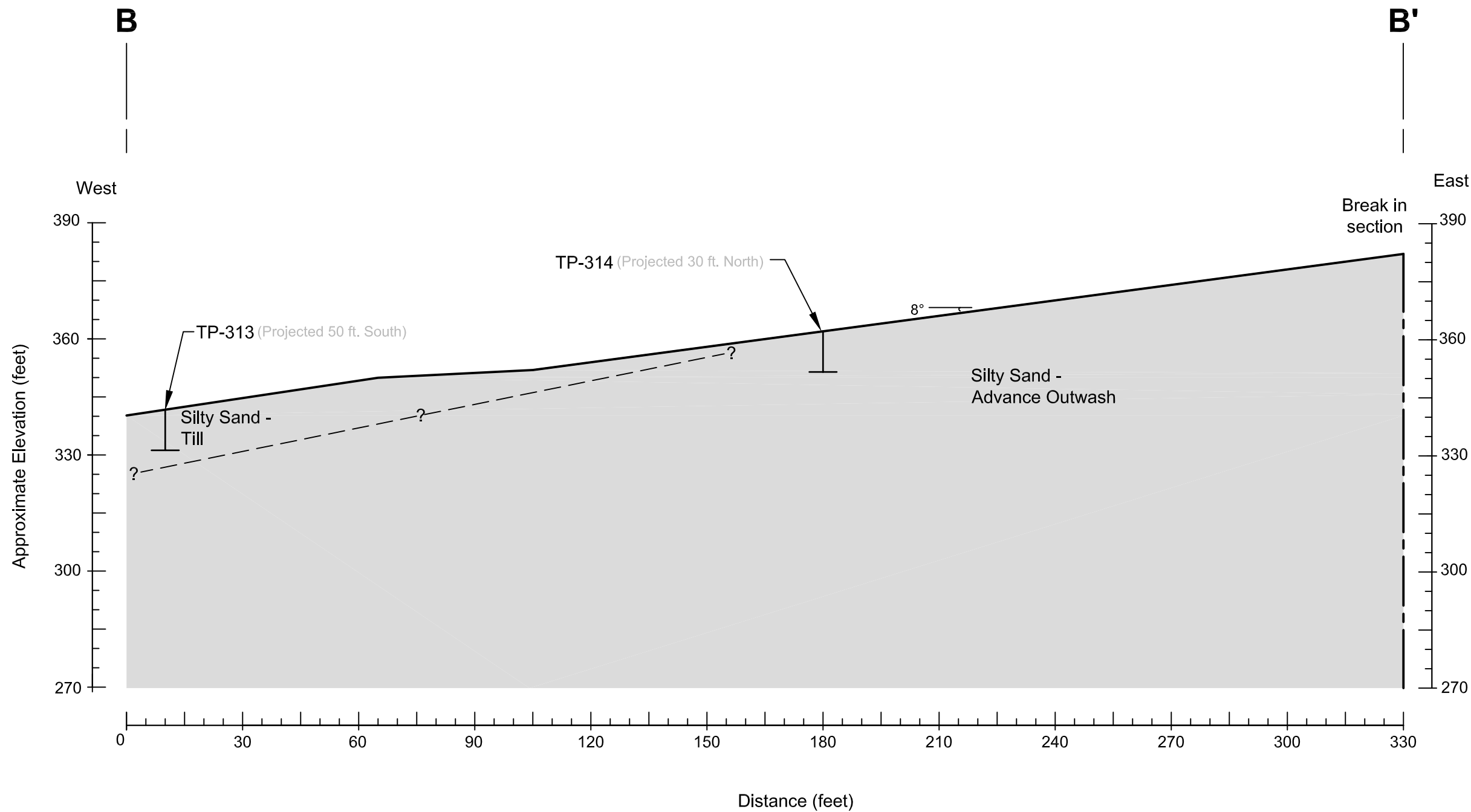
- NOTES:
- 1) Stratigraphic conditions are interpolated between the explorations. Actual conditions may vary.
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**Exploration**

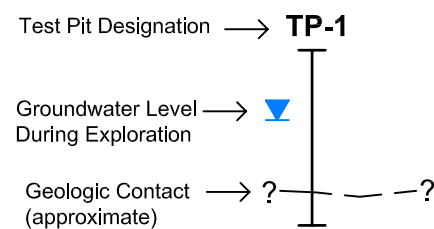


Reference: Cross-section based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

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**Exploration**



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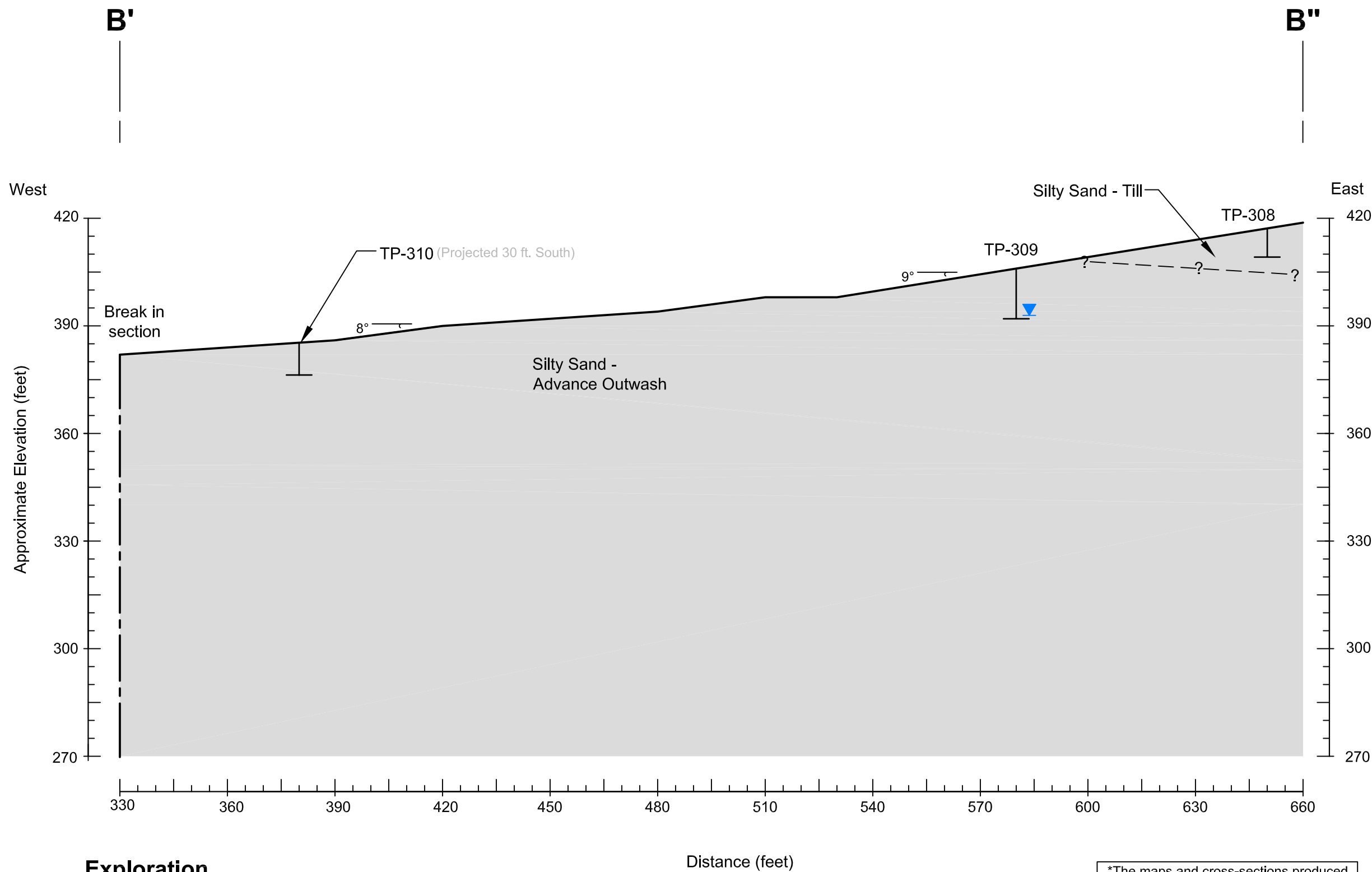
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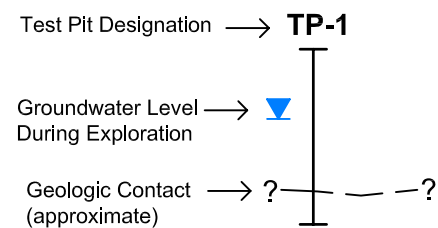
Project Number 409205	Figure 5	Page 1 of 2	<p><b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b></p> <p><b>NGA</b></p> <p><b>GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS</b></p> <p>Snohomish County (425) 337-1669 Wenatchee/Chelan (509) 784-2756 www.nelsongeotech.com</p> <p>17311-135th Ave, NE, A-500 Woodinville, WA 98072 (425) 486-1669 / Fax 481-2510</p>	No.	Date	Revision	By	CK
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Wood Trails  
Cross-Section B-B'

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**Exploration**



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Reference: Cross-section based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

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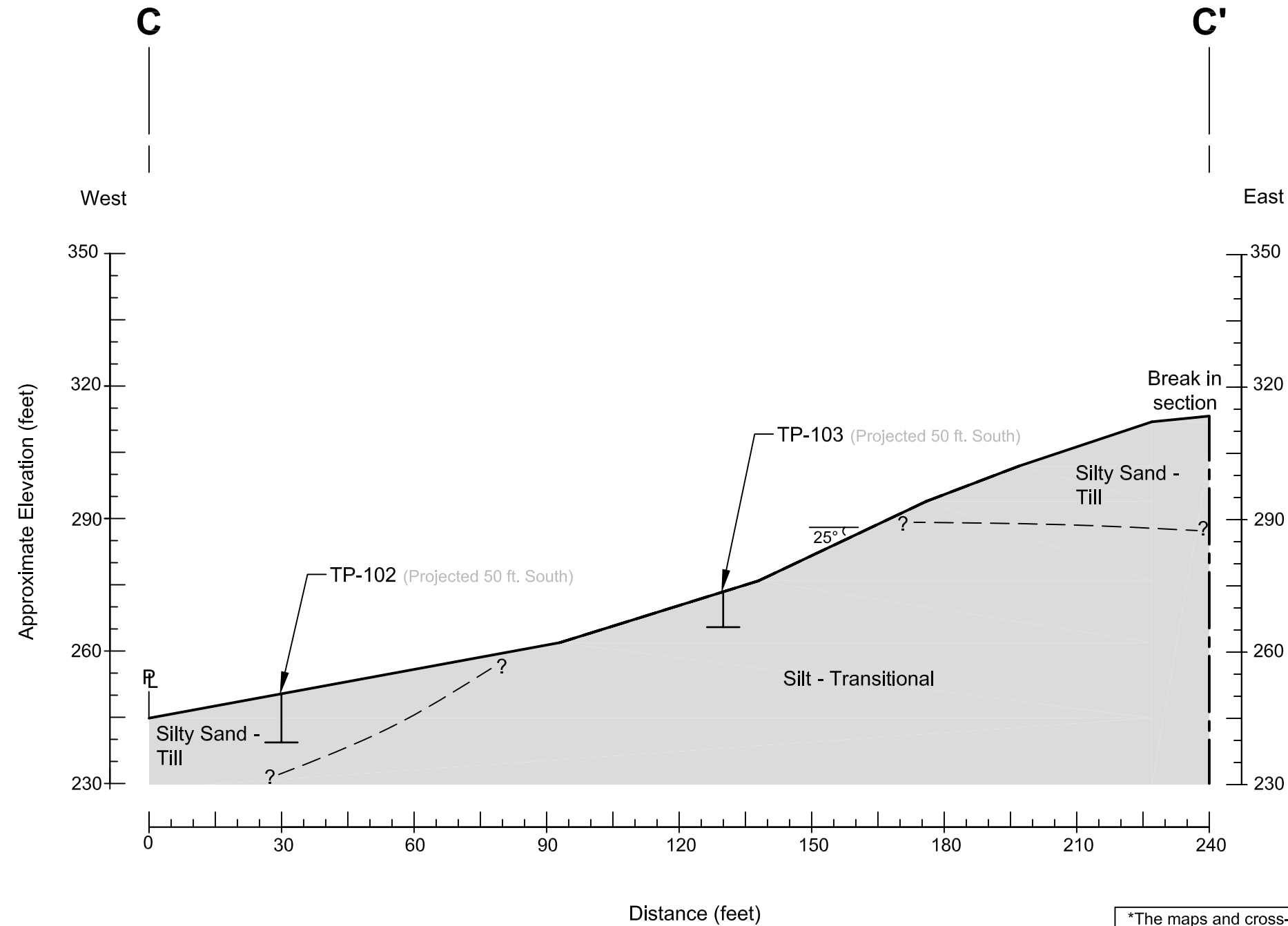
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Wood Trails  
Cross-Section B'-B''

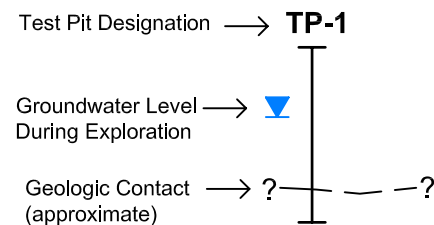
Project Number 409205	Figure 5	Page 2 of 2
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**Exploration**



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 2) Elevations are approximate.

Reference: Cross-section based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

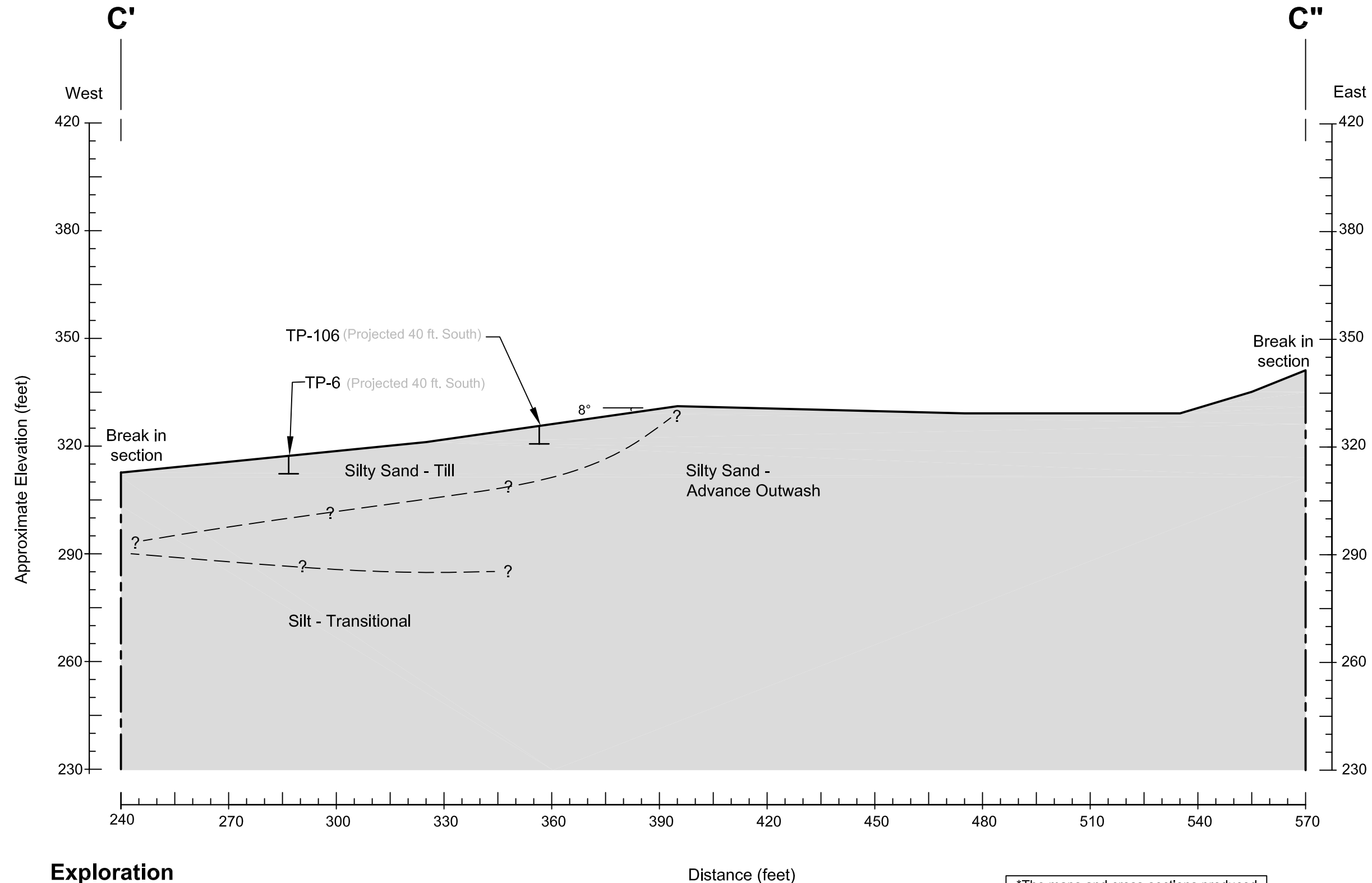
No.	Date	Revision	By	CK
1	8/31/06	Original	ACO	BD

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 Woodinville, WA 98072  
 (425) 486-1669 / Fax 481-2510

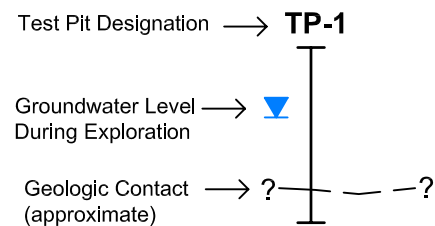
Wood Trails  
 Cross-Section C-C'

Project Number 409205	Figure 6	Page 1 of 3
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**Exploration**



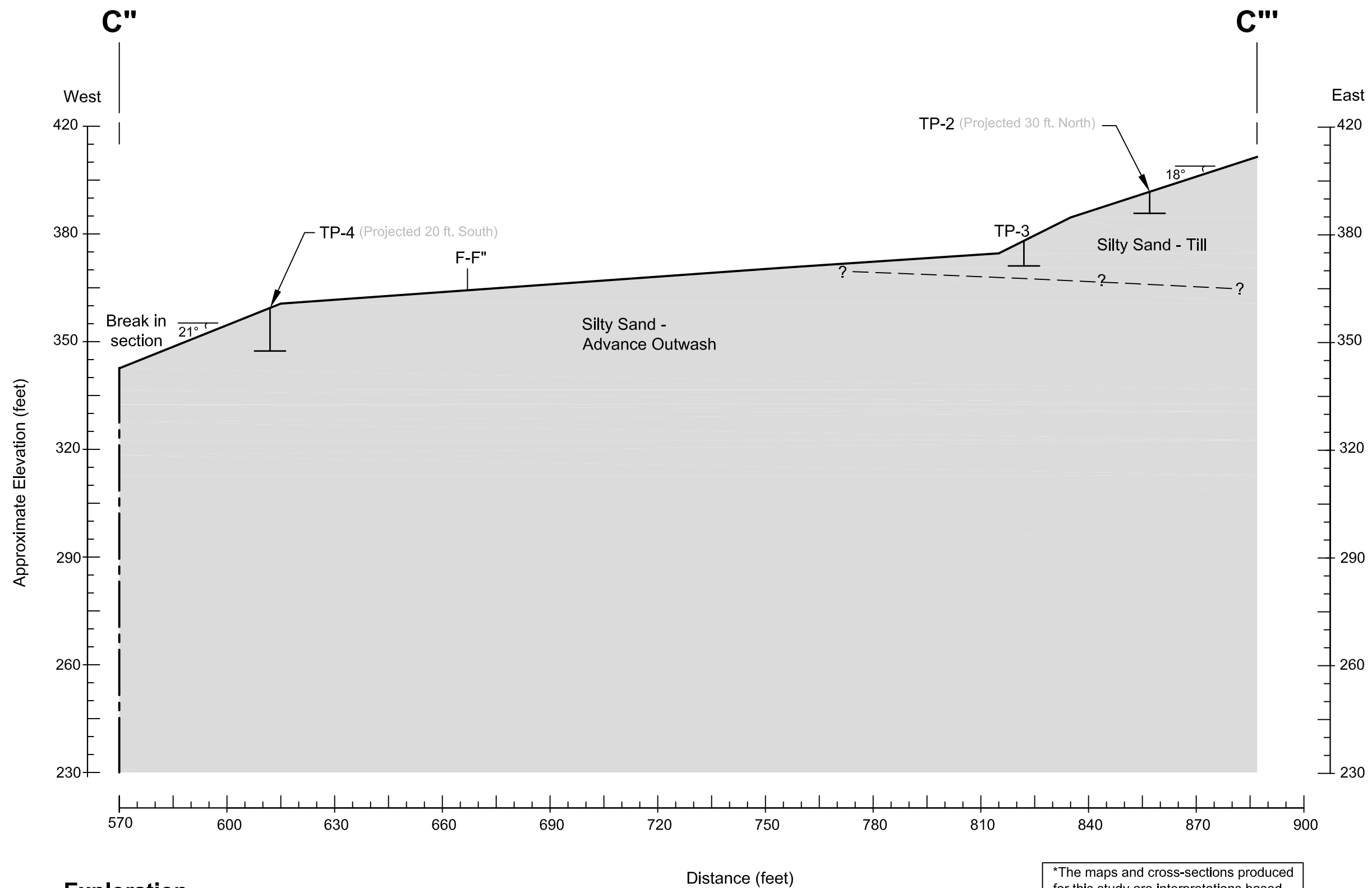
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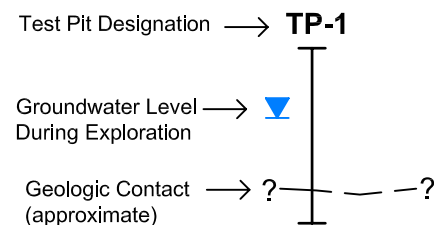
Reference: Cross-section based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

<p><b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b>                  GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS                  17311-135th Ave. NE, A-500                  Woodinville, WA 98072                  (425) 486-1669 / Fax 481-2510                  www.nelsongeotech.com</p>	By CK	ACO BD
	Revision	Original
	Date	8/31/06
No.	1	
Project Number 409205		
Figure 6		
Page 2 of 3		

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**Exploration**



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1	8/31/06	Original	ACO	BD

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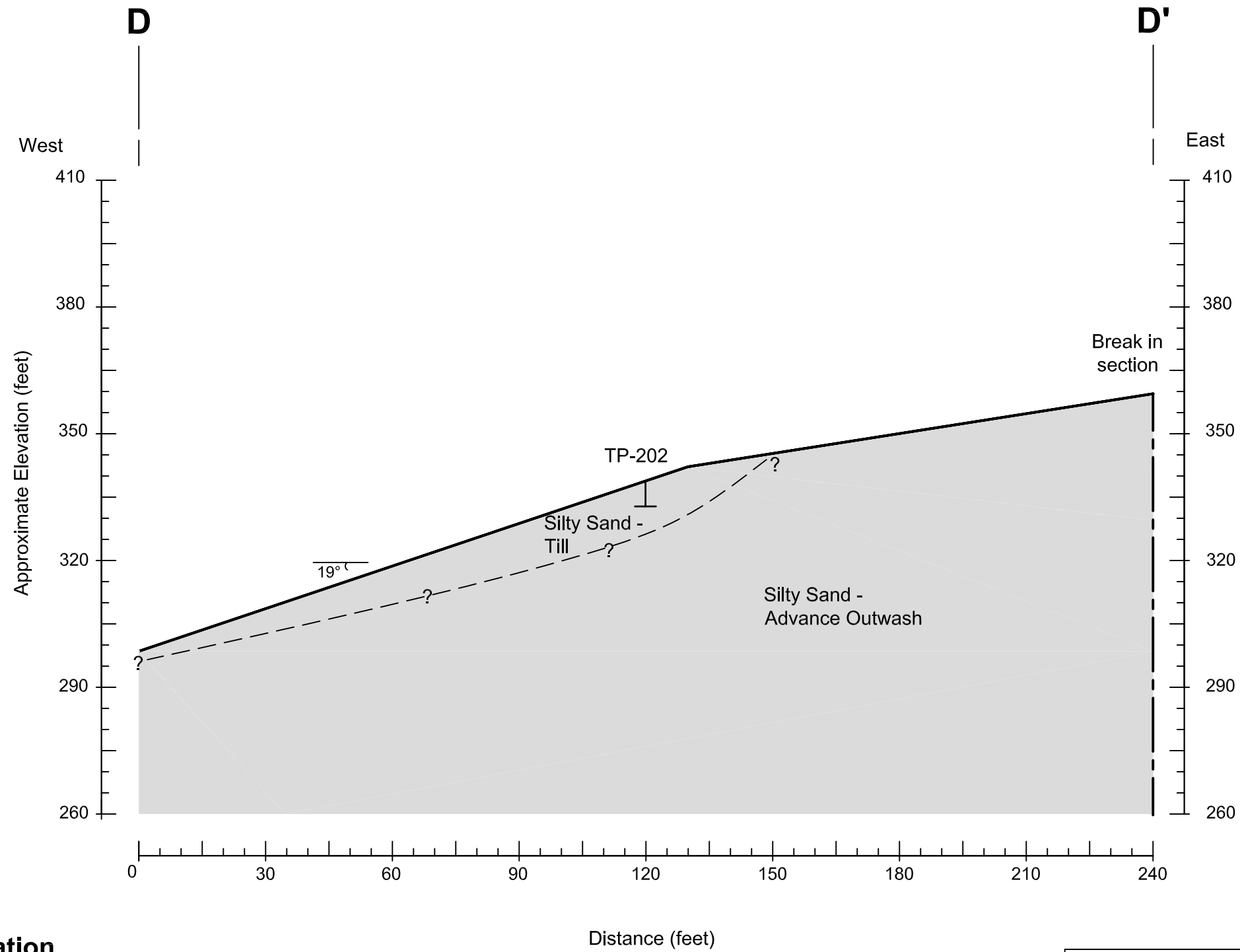
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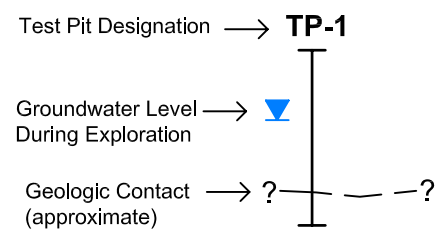
Wood Trails  
 Cross-Section C''-C'''

Project Number	409205
Figure	6
Page	3 of 3

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**Exploration**



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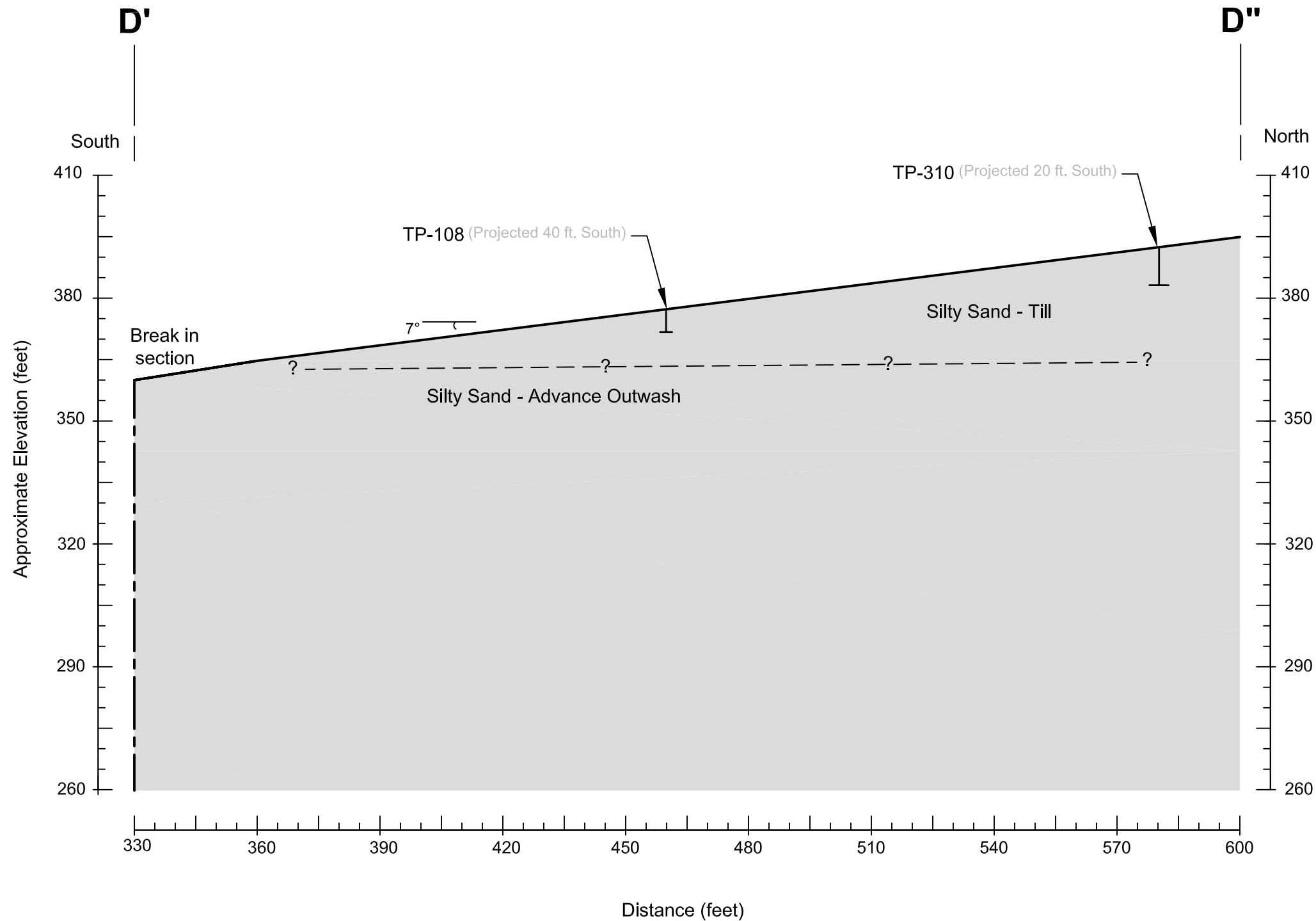
17311-135th Ave. NE, A-500  
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 (425) 486-1669 / Fax 481-2510

Wood Trails  
 Cross-Section D-D'

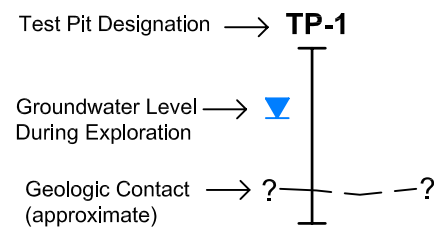
Project Number 409205	Figure 7	Page 1 of 2
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**Exploration**



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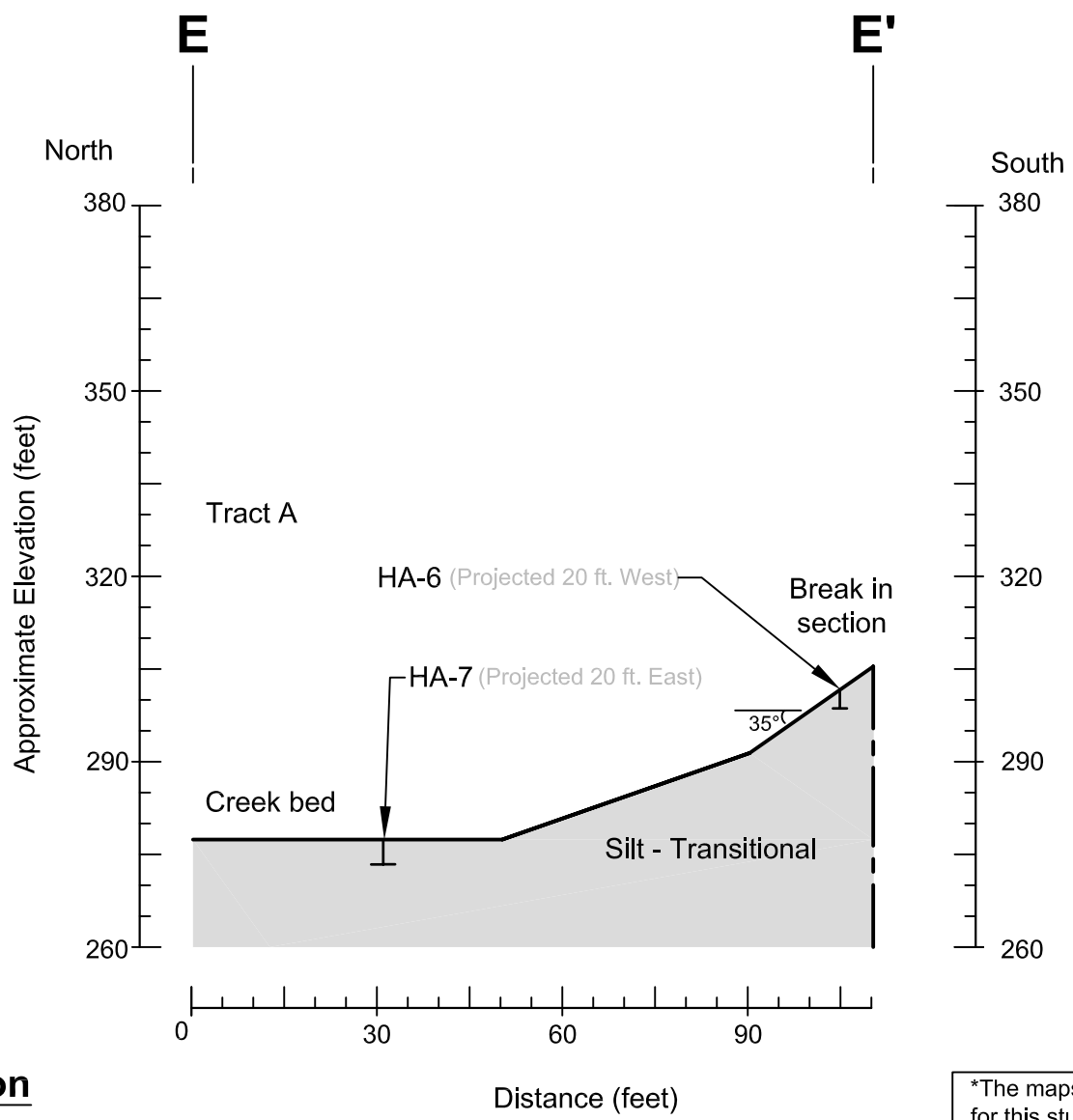
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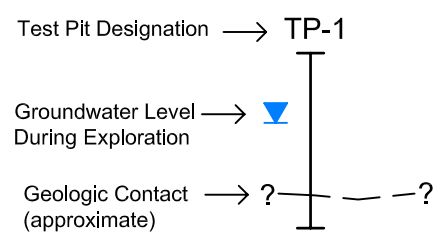
 <b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b> <b>GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS</b> <small>17311-135th Ave. NE, A-500                  Woodinville, WA 98072                  (425) 486-1669 / Fax 481-2510                  Snohomish County (425) 337-1669                  Wenatchee/Chelan (509) 784-2756                  www.nelsongeotech.com</small>	No. 1 Date 8/31/06 Revision Original By ACO CK BD
	Project Number 409205 Figure 7 Page 2 of 2
	Wood Trails Cross-Section D'-D''

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No.	Date	Revision	By	CK
1	9/18/06	Original	ACO	BD



**Exploration**

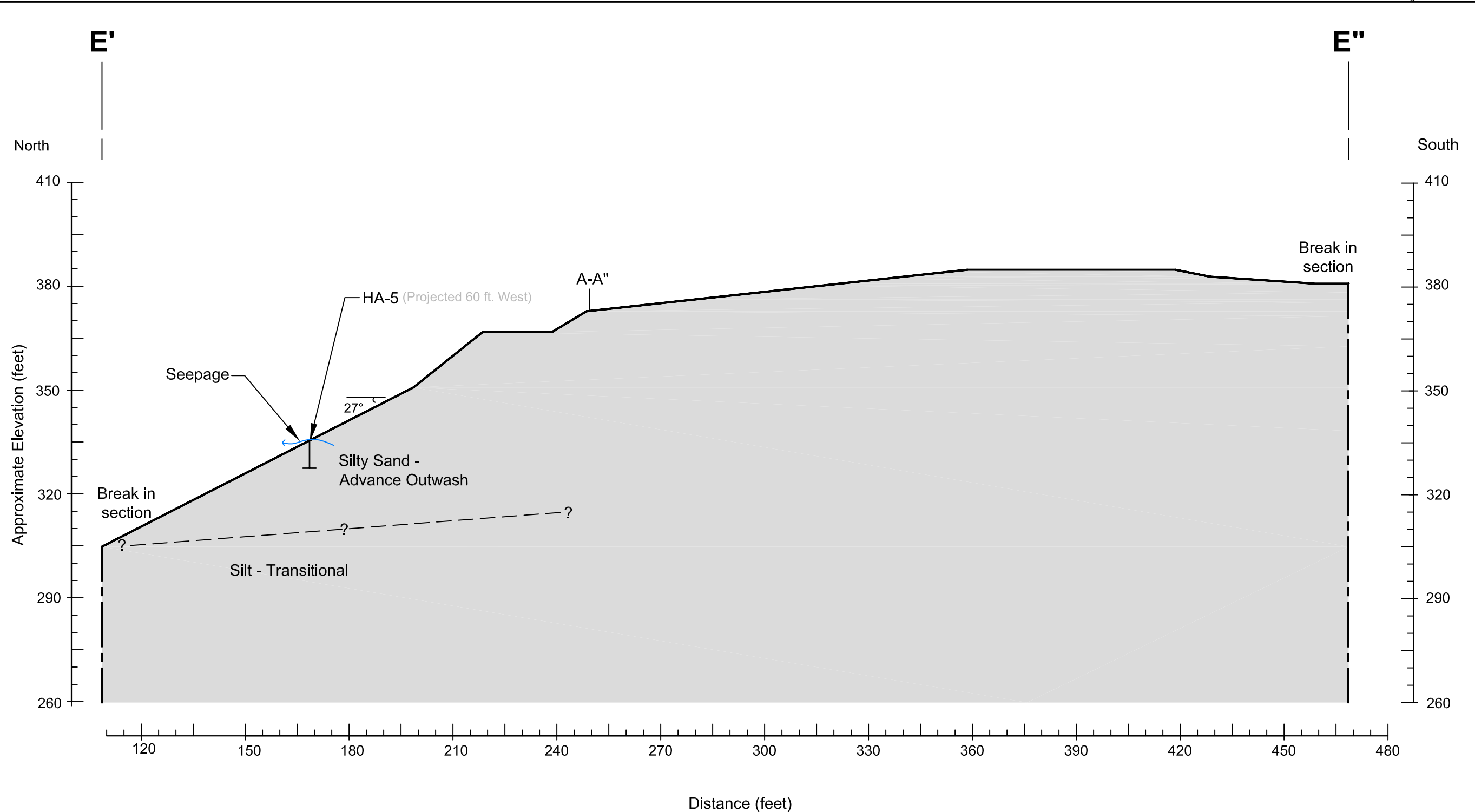


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<b>No.</b>	1
<b>Date</b>	8/31/06
<b>Revision</b>	Original
<b>By</b>	ACO
<b>CK</b>	BD

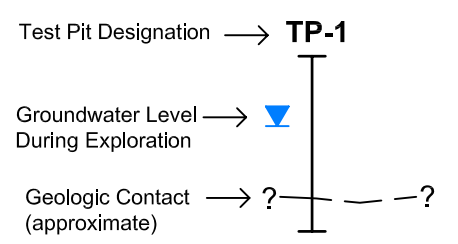
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Wood Trails  
 Cross-Section E-E''

<b>Project Number</b>	409205
<b>Figure</b>	8
<b>Page</b>	2 of 4

**Exploration**

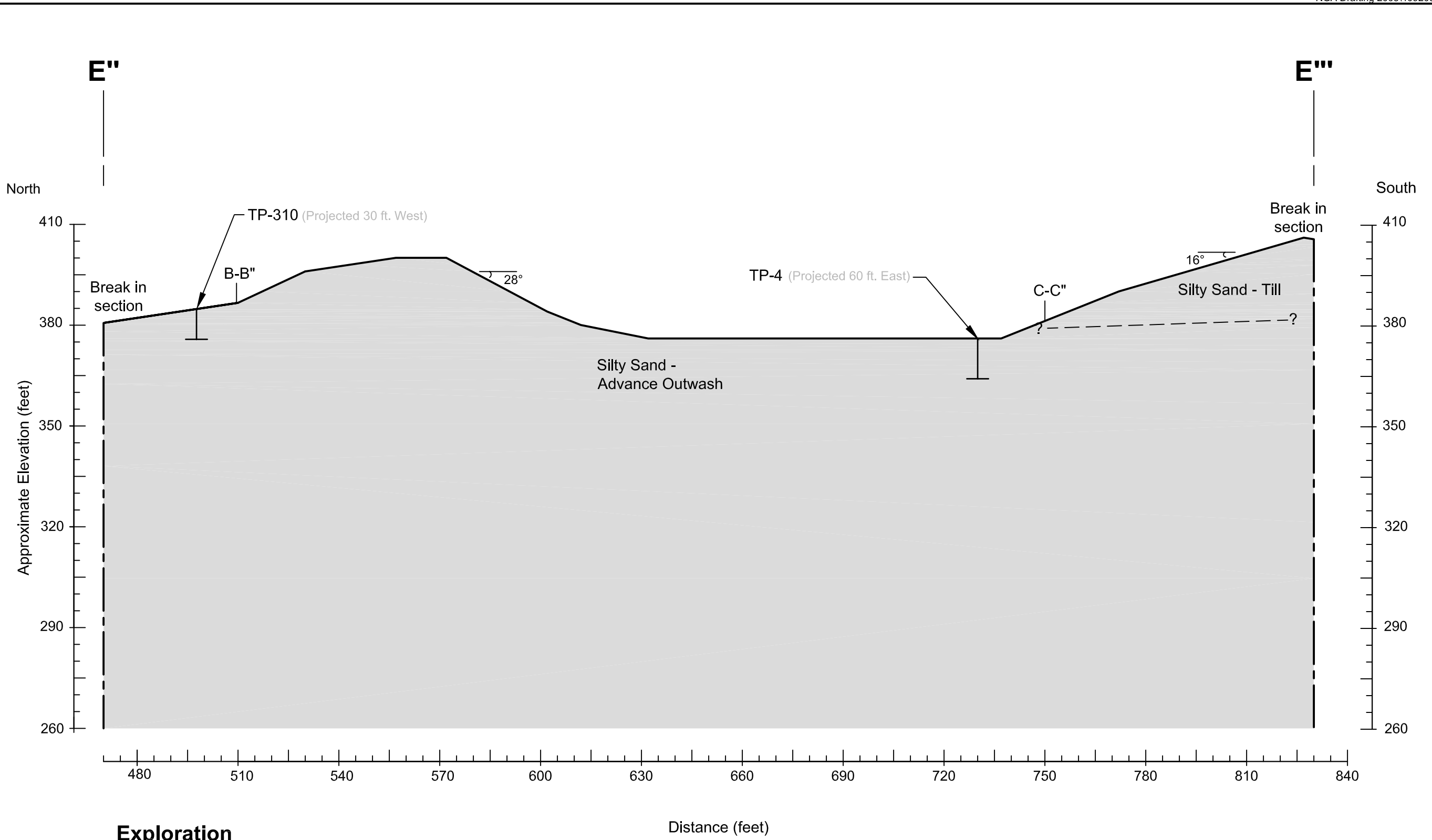


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No.	Date	Revision	By	CK
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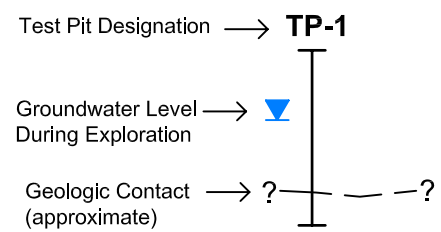
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Wood Trails  
 Cross-Section E''-E'''

Project Number	409205
Figure	8
Page	3 of 4

**Exploration**



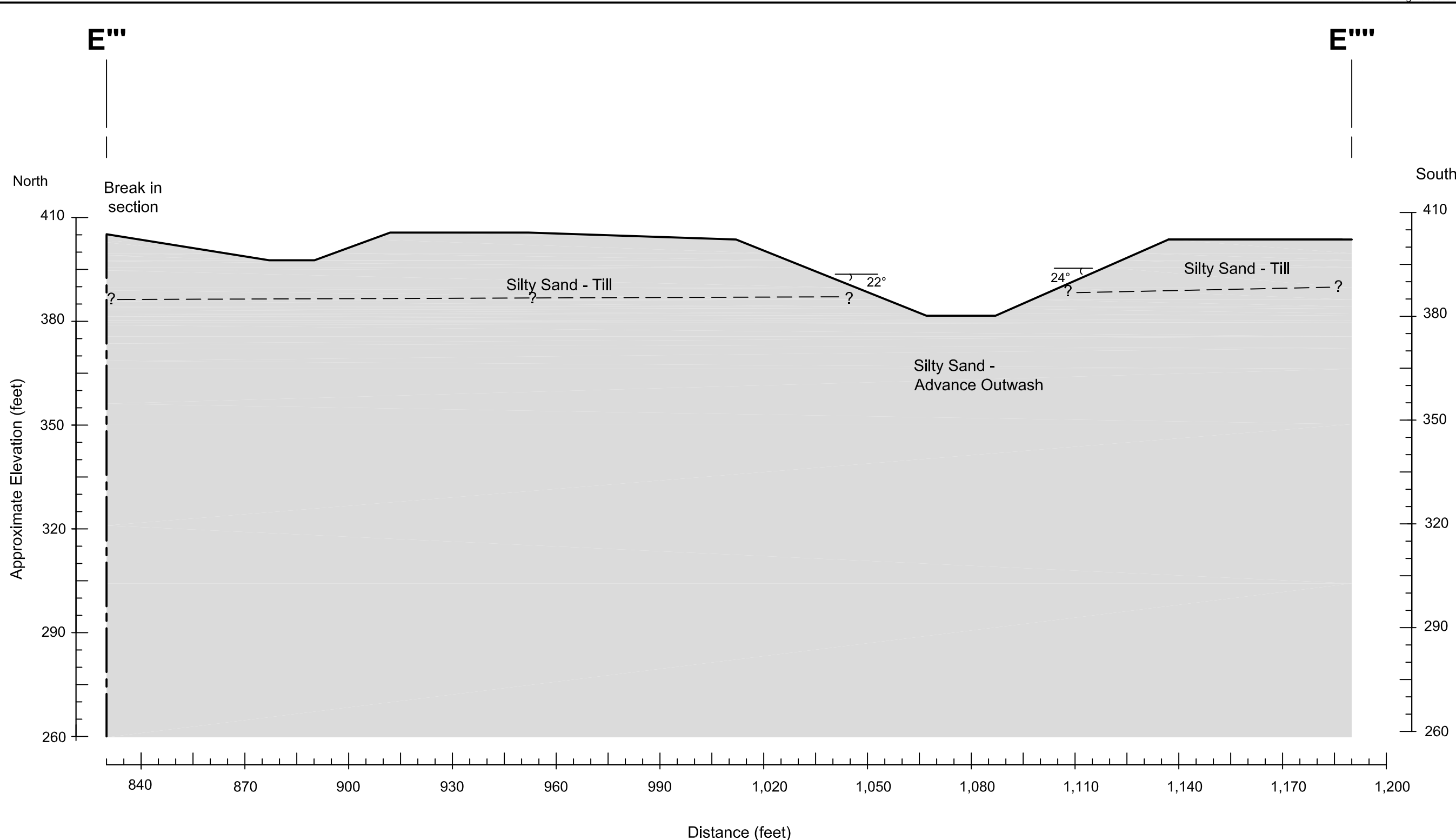
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No.	Date	Revision	By	CK
1	8/31/06	Original	ACO	BD

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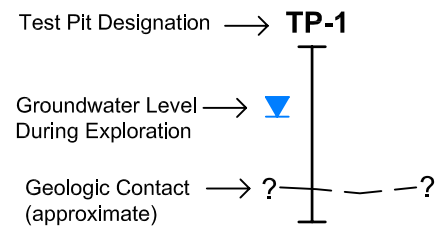
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Wood Trails  
 Cross-Section E'''-E'''

Project Number 409205	Figure 8	Page 4 of 4
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**Exploration**

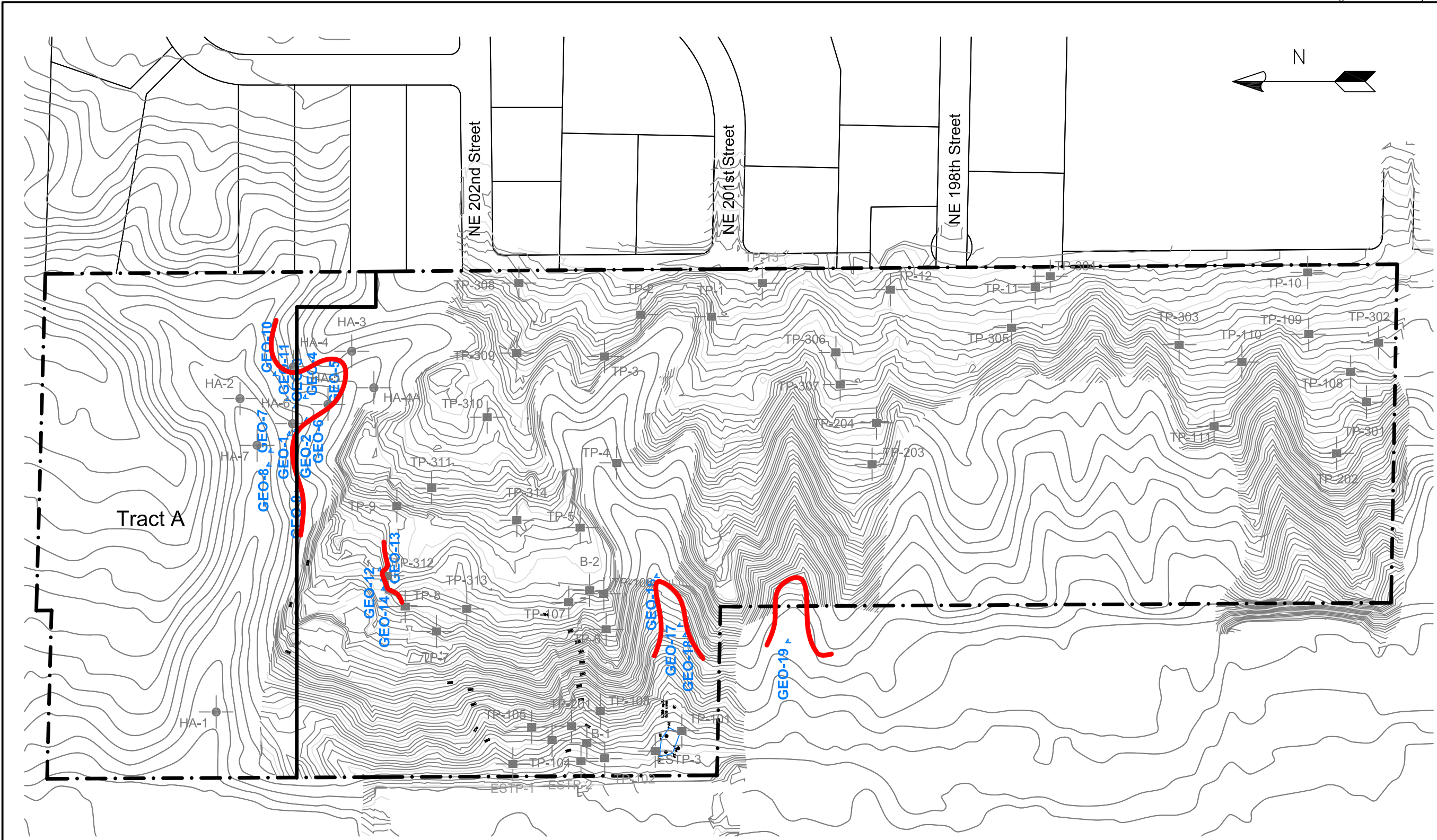


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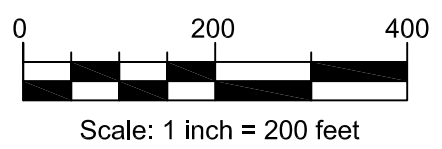
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**LEGEND**

- Project boundary
- TP-1  
[Symbol] Number and approximate location of ECI Test Pit, July 2003
- TP-101  
[Symbol] Number and approximate location of ECI Test Pit, February 2004
- TP-201  
[Symbol] Number and approximate location of ECI Test Pit, April 2004
- TP-301  
[Symbol] Number and approximate location of ECI Test Pit, September 2004
- HA-1  
[Symbol] Number and approximate location of ESNW Hand Auger, June 2006
- ESTP-1  
[Symbol] Number and approximate location of ESNW Test Pit, June 2005
- B-1  
[Symbol] Number and approximate location of ECI Boring, January 2005
- [Red Line] Approximate Seepage Zones
- GEO-1  
[Symbol] Approximate location of groundwater seepage per field observation

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Reference: Site Plan based on a topographic survey dated April 21, 2006, titled "Wood Trails," prepared by Triad Associates.

No.	Date	Revision	By	CK
1	8/21/06	Original	ACO	BD

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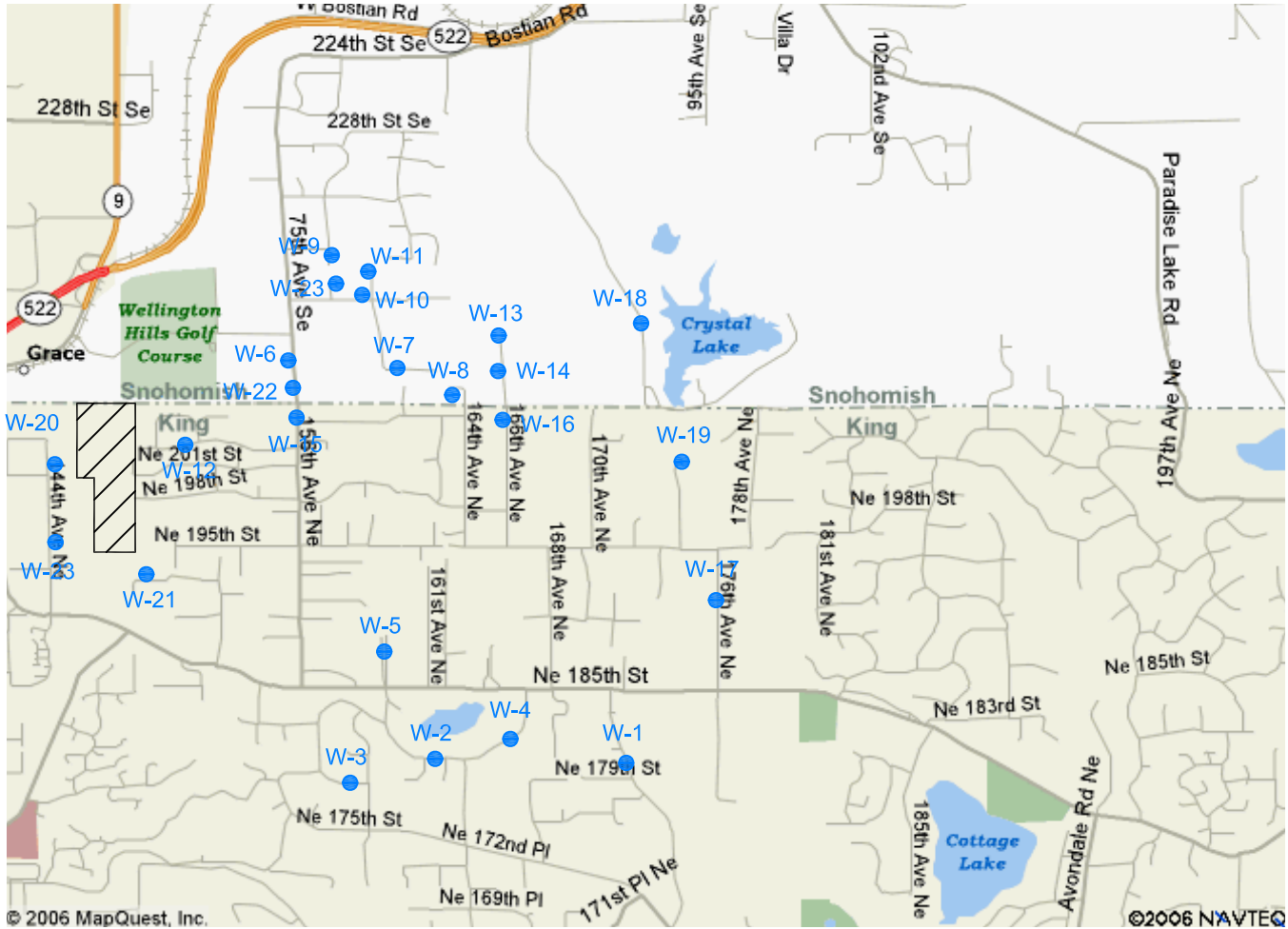
Wood Trails  
Groundwater Seepage Location Map

Project Number	409205
Figure	9

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# WELL MAP

Not to Scale



## LEGEND



Project Boundary

W-1



Number and approximate location of registered well

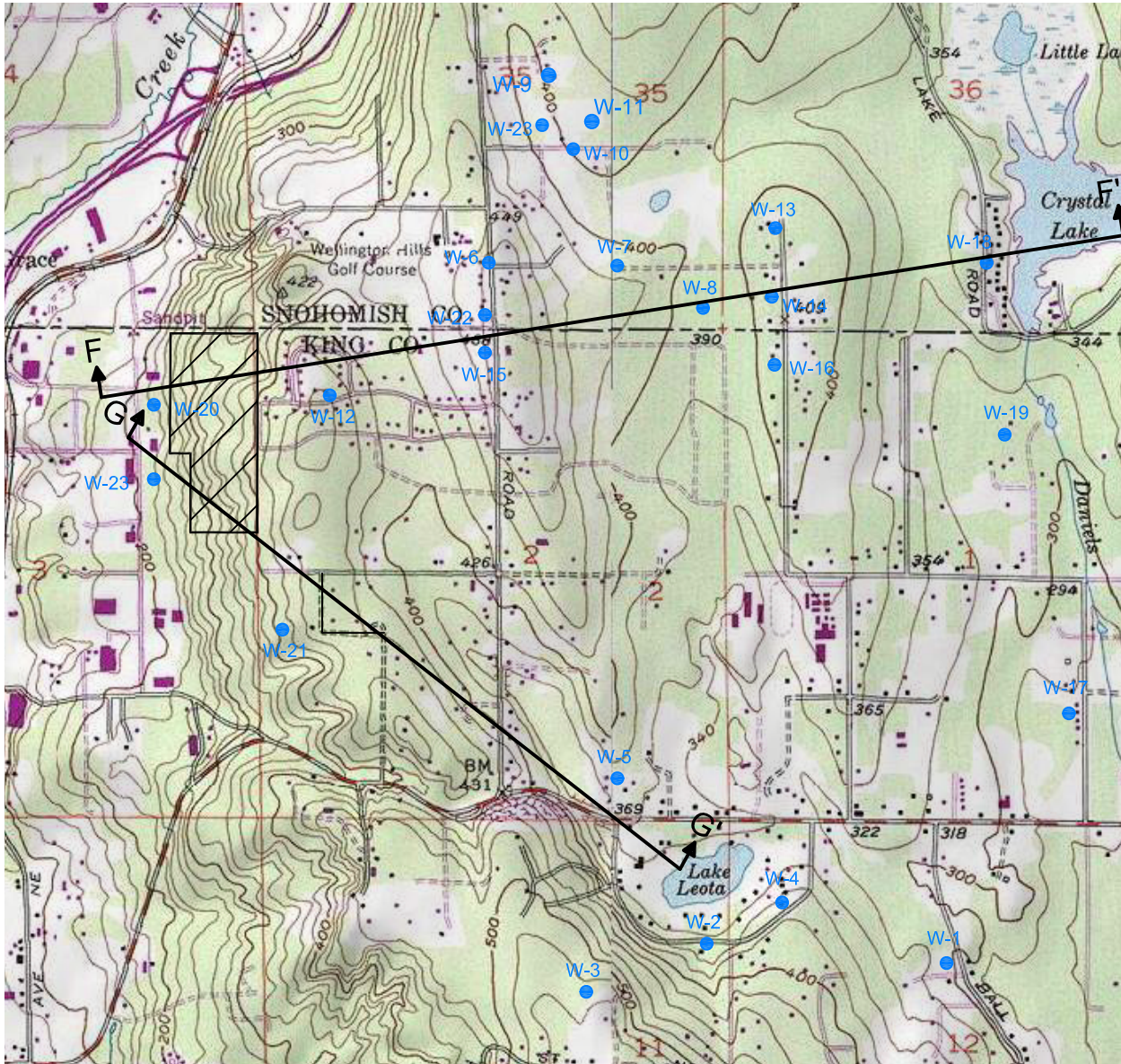
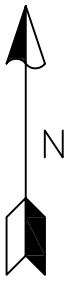
## Woodinville, WA

Reference: Well locations compiled from Department of Ecology website.

Project Number 409205	Wood Trails Well Map	<p><b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b> GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS</p> <p>17311-135th Ave. NE, A-500 Woodinville, WA 98072 (425) 486-1669 / Fax 481-2510</p> <p>Snohomish County (425) 337-1669 Wenatchee/Chelan (509) 665-7696 www.nelsongeotech.com</p>	No.	Date	Revision	By	CK
Figure 10			1	8/23/06	Original	ACO	BD

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# LEGEND



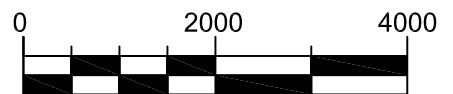
Project Boundary



Approximate location of cross-section



W-1 Number and approximate location of registered well



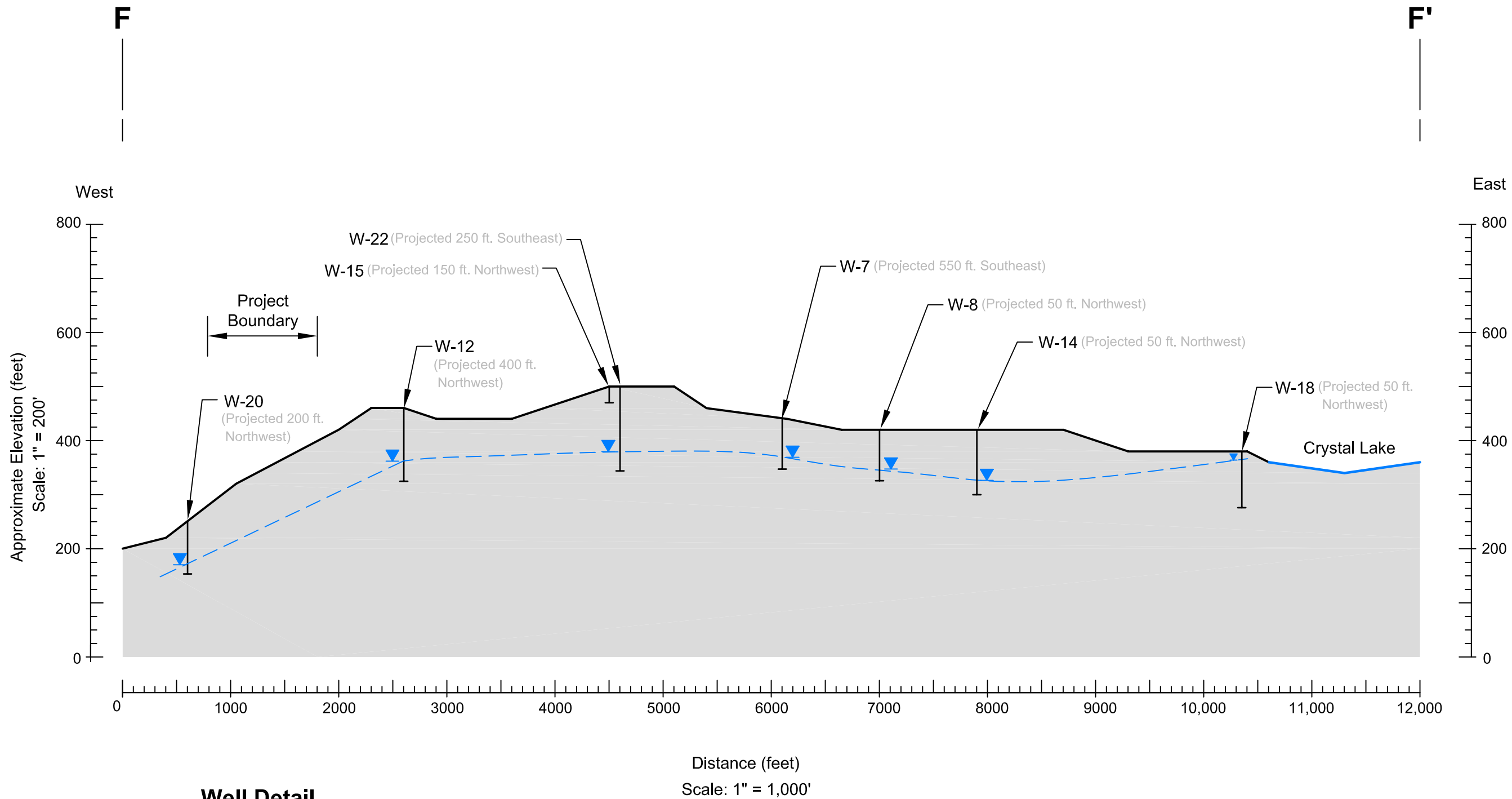
Scale: 1 inch = 2000 feet

Reference: Map created with TOPO! © 2003 National Geographic. Well locations compiled from Department of Ecology website.

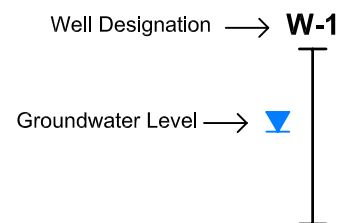
Project Number 409205	Wood Trails Topographic Well Map	<p><b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b> GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS</p> <p>17311-135th Ave, NE, A-500 Woodinville, WA 98072 (425) 486-1669 / Fax 481-2510</p> <p>Snohomish County (425) 337-1669 Wenatchee/Chelan (509) 665-7696 www.nelsongeotech.com</p>	No.	Date	Revision	By	CK
Figure 11			1	8/23/06	Original	ACO	BD

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**Well Detail**




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Project Number 409205	Figure 12	No.	Date	Revision	By	CK
		1	8/23/06	Original	ACO	BD
Wood Trails Cross-Section F-F'		<b>NELSON GEOTECHNICAL ASSOCIATES, INC.</b>  <b>GEOTECHNICAL ENGINEERS &amp; GEOLOGISTS</b> Snohomish County (425) 337-1669 Wenatchee/Chelan (509) 784-2756 www.nelsongeotech.com				
		17311-135th Ave. NE, A-500 Woodinville, WA 98072 (425) 486-1669 / Fax 481-2510				

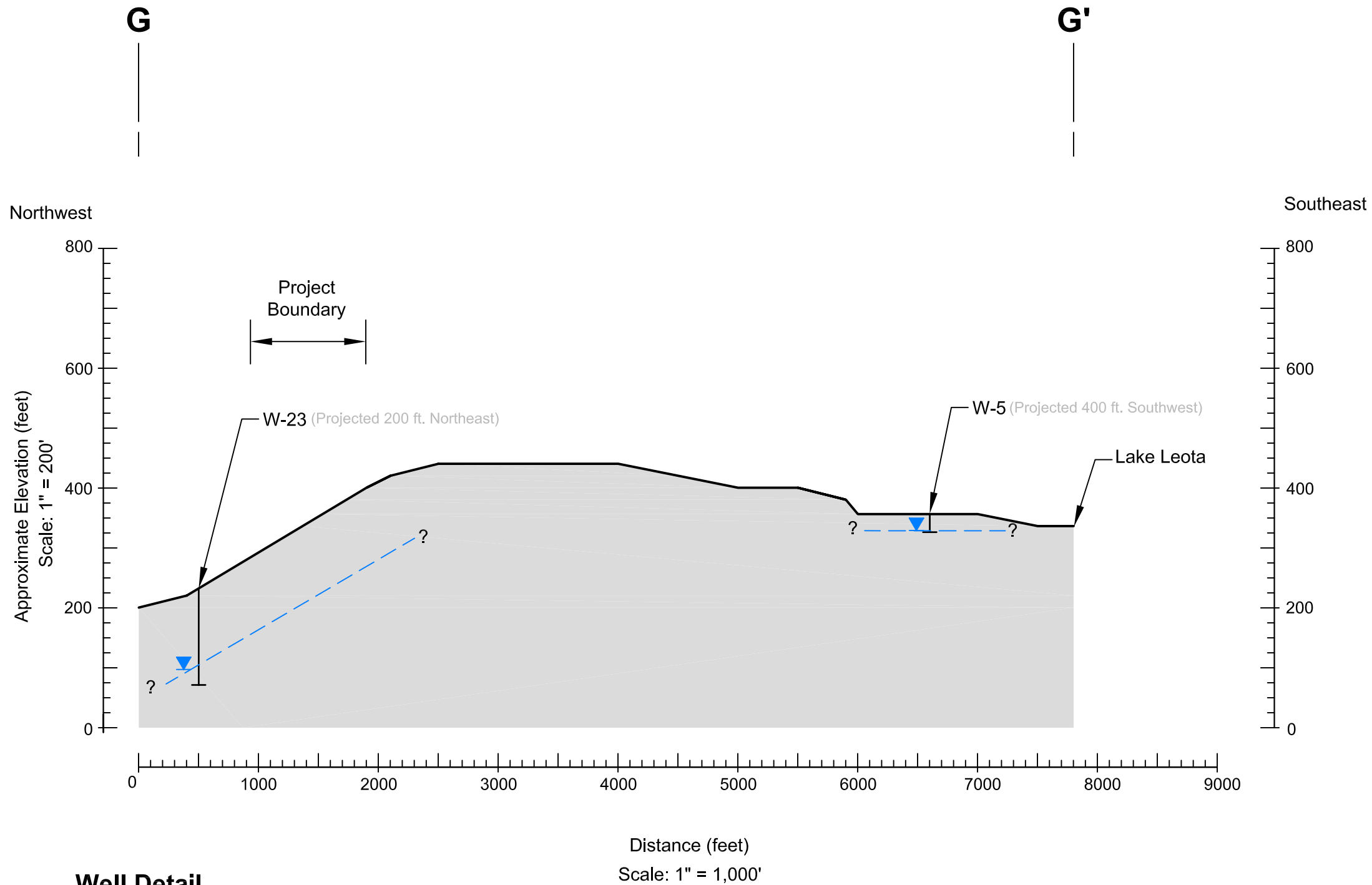
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No.	Date	Revision	By	CK
1	8/29/06	Original	ACO	BD

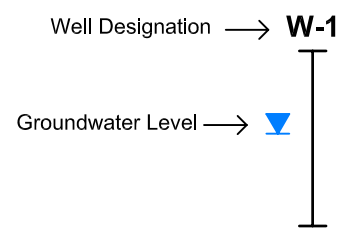
**NELSON GEOTECHNICAL ASSOCIATES, INC.**  
  
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Wood Trails  
 Cross-Section G-G'

Project Number	409205
Figure	13



**Well Detail**



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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

# WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

Construction/Decommission ("x" in circle) 136650

Construction

Decommission ORIGINAL CONSTRUCTION Notice of Intent Number \_\_\_\_\_

PROPOSED USE:  Domestic  Industrial  Municipal  
 DeWater  Irrigation  Test Well  Other: Decommission

TYPE OF WORK: Owner's number of well (if more than one) \_\_\_\_\_

New Well  Reconditioned  Method  Dug  Bored  Driven  
 Deepened  Cable  Rotary  Jetted

DIMENSIONS: Diameter of well 6 inches, drilled \_\_\_\_\_ ft  
Depth of completed well \_\_\_\_\_ ft

### CONSTRUCTION DETAILS

Casing  Welded 6" Diam from 0 ft to 55 ft  
Installed:  Liner installed \_\_\_\_\_" Diam from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Threaded \_\_\_\_\_" Diam from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Perforations:  Yes  No

Type of perforator used \_\_\_\_\_  
SIZE of perfs \_\_\_\_\_ in by \_\_\_\_\_ in and no of perfs \_\_\_\_\_ from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Screens:  Yes  No  K-Pac Location \_\_\_\_\_  
Manufacturer's Name \_\_\_\_\_

Type \_\_\_\_\_ Model No \_\_\_\_\_  
Diam \_\_\_\_\_ Slot Size \_\_\_\_\_ from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
Diam \_\_\_\_\_ Slot Size \_\_\_\_\_ from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Gravel/Filter packed:  Yes  No  Size of gravel/sand \_\_\_\_\_  
Materials placed from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Surface Seal:  Yes  No To what depth? \_\_\_\_\_ ft  
Materials used in seal \_\_\_\_\_

Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ HP

WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.

Static level 30 ft. below top of well Date 7-17-03

Artesian pressure \_\_\_\_\_ lbs per square inch Date \_\_\_\_\_

Artesian water is controlled by \_\_\_\_\_ (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom? \_\_\_\_\_

Yield \_\_\_\_\_ gal /min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs

Yield \_\_\_\_\_ gal /min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs

Yield \_\_\_\_\_ gal /min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ 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
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Date of test \_\_\_\_\_

Bailer test \_\_\_\_\_ gal /min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs

Airtest \_\_\_\_\_ 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

CURRENT

Notice of Intent No. A 51286

Unique Ecology Well ID Tag No. none

Water Right Permit No. none

Property Owner Name Ed Young

Well Street Address 16232 NE 180th St

City Woodinville County: King

Location SW 1/4- 1/4 NW 1/4 Sec. 12 Twn 26 R5E 15 <sup>EWM</sup> Circle or one WWM

Lat/Long: Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_

(s, t, r still REQUIRED) Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

Tax Parcel No. 4045900060

### CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information Indicate all water encountered.

(USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
<u>Pulled casing</u>	<u>0</u>	<u>55</u>
<u>filled with bentonite</u>	<u>0</u>	<u>55</u>

RECEIVED

AUG 13 2003

DEPT OF ECOLOGY

Start Date 7-17-03 Completed Date 7-17-03

WELL CONSTRUCTION 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.

Driller  Engineer  Trainee Name (Print) Paul Anderson Drilling Company Anderson Drilling Co

Driller/Engineer/Trainee Signature [Signature] Address 6310-145th DR NE

Driller or Trainee License No. 1367 City, State, Zip LE Stevens WA 98258

If trainee, licensed driller's Signature and License no. \_\_\_\_\_ Contractor's Registration No. Anderson 0146 Date 7-17-03

Ecology is an Equal Opportunity Employer ECV 050-1-20 (Rev 4/01)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

96729

## RESOURCE PROTECTION WELL REPORT

START CARD NO RO4717

PROJECT NAME Redmond  
 WELL IDENTIFICATION NO AFM 219  
 DRILLING METHOD Mud Rotary  
 DRILLER Travis Stephens  
 FIRM Geo-Tech Explorations, Inc.  
 SIGNATURE [Signature]  
 CONSULTING FIRM Shannon & Wilson  
 REPRESENTATIVE Bob Mitchell

COUNTY King 26-5E-12D  
 LOCATION NE 1/4 Sec 12 Twn 26N R 5E  
 STREET ADDRESS OF WELL 1770 NE 78th Pl  
 WATER LEVEL ELEVATION None  
 GROUND SURFACE ELEVATION \_\_\_\_\_  
 INSTALLED 5-21-01  
 DEVELOPED 5-21-01

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	<p>Water <u>Tight Cover</u></p> <p>Surface Flush Vault            Locking Cap</p> <p>Casing:            Diameter: <u>7</u> in.            Material: <u>PVC</u></p> <p>Well Seal:            From <u>1</u> ft. To <u>22</u> ft.            Material: <u>Bentonite</u>            Amount: <u>3 bags</u></p> <p>Borehole Diameter: <u>5</u> in.</p> <p>Screen:            Material: <u>PVC</u>            From <u>25</u> ft. To <u>35</u> ft.            Slot Size <u>10/10</u> in.</p> <p>Filter Pack:            From <u>22</u> ft. To <u>35</u> ft.            Material <u>Sand</u>            Size <u>10-20</u> in.</p> <p>Completed Depth <u>35</u> ft.</p>	<p style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</p> <p style="text-align: right; font-weight: bold;">JUN-18-2001</p> <p style="text-align: right; font-size: 0.8em;">DEPARTMENT OF ECOLOGY WELL DRILLING UNIT</p> <p>0 ft. to <u>1</u> ft.  <u>Grass &amp; Soil</u></p> <p><u>1</u> ft. to <u>35</u> ft.  <u>Sand &amp; Gravel</u></p> <p>____ ft. to ____ ft.</p> <p>____ FT. TO ____ ft.</p> <p>Number of Wells Completed the Same: _____</p>











126453

\*\*\*REVISED\*\*

WATER WELL REPORT  
STATE OF WASHINGTON

Start Card No. W153911  
Water Right Permit No. AHB759

9944

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

(1) OWNER: Name RANDY WAHLEN Address 8024 242ND ST SE WOODINVILLE, WA 98072-  
(2) LOCATION OF WELL: County SNOHOMISH - SE 1/4 SE 1/4 Sec 35 T 27 N., R 5E WM  
(2a) STREET ADDRESS OF WELL (or nearest address) 8131 243RD STREET SE

(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 100 ft. Depth of completed well 94.2 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 " Dia. from 3 ft. to 90.75 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 ALLOY MACHINE  
Type STAINLESS STEEL Model No.  
Diam. 6 slot size 15 from 89.2 ft. to 94.2 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

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

(8) WATER LEVELS: Land-surface elevation  
above mean sea level ... ft.  
Static level 76 ft. below top of well Date 01/13/03  
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? YES If yes, by whom? HAYES DRILLING  
Yield: 15 gal./min with 3.2 ft. drawdown after 1 hrs.

Recovery data  
Time Water Level Time Water Level Time Water Level

Date of test / /  
Bailer test 10 gal/min. 8 ft. drawdown after 1 hrs.  
Air test gal/min. w/ stem set at ft. for hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? YES

(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
BROWN SILT & SAND CLAY & GRAVEL	0	25
BROWN SAND & SAND	25	35
BROWN SAND & SILT	35	43
BROWN SAND SILT	43	66
BROWN COARSE SAND	66	69
BROWN COARSE & GRAVEL	69	86
BROWN GRAVEL SAND & WATER	86	

RECEIVED

JAN 24 2003

DEPARTMENT OF ECOLOGY  
WELL DRILLING UNIT

DEPT. OF ECOLOGY  
FISCAL & BUDGET

03 JAN 23 P2:21

Work started 12/23/02

Completed 12/24/02

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 HAYES DRILLING, INC.  
(Person, firm, or corporation) (Type or print)

ADDRESS 5696 ERSHIG RD. BOW, WA

[SIGNED] *M. McAllen* License No. 2566

Contractor's Registration No. HAYESDI106J5 Date 01/22/03

07568

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

132791

WATER WELL REPORT  
STATE OF WASHINGTON

Start Card No.

W153948  
AGH 046

10152

(1) OWNER: Name LUND, COLIN Address 11814 115TH AVE NE KIRKLAND, WA 98034-

(2) LOCATION OF WELL: County SNOHOMISH - NW 1/4 SE 1/4 Sec 35 T 27 N., R 5 WM  
(2a) STREET ADDRESS OF WELL (or nearest address) 23618 77TH AVE SE

(3) PROPOSED USE: DOMESTIC

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

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 125 ft. Depth of completed well 123 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 " Dia. from +2 ft. to 119 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 ALLOY MACHINE  
Type STAINLESS STEEL Model No.  
Diam. 6 slot size 25 from 118 ft. to 123 ft.  
Diam. slot size from ft. to ft.

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

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 GRUNDFOS  
Type SUBMERSIBLE H.P. 3/4

(8) WATER LEVELS: Land-surface elevation  
Static Level 96.2 ft. below top of well Date 05/06/03  
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? YES If yes, by whom? HAYES DRILLING  
Yield: 14.8 gal./min with 2.4 ft. drawdown after 1 hrs.

Recovery data  
Time Water Level Time Water Level Time Water Level

Date of test  
Bailer test 4 gal./min. 1 ft. drawdown after 1 hrs.  
Air test 22 gal./min. w/ stem set at 115 ft. for 1 hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? YES

(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
BROWN SILT SAND & CLAY & GRAVEL	0	19
BROWN GRAVEL SAND & CLAY	19	32
BROWN SAND GRAVEL & CLAY	32	41
BROWN SAND & SILT	41	60
BROWN SAND & SILT & WOOD	60	75
BROWN SAND & GRAVEL	75	85
BROWN GRAVEL & SAND	85	107
BROWN SAND & GRAVEL	107	117
BROWN GRAVEL & SAND & WATER	117	

RECEIVED

MAY 21 2003

DEPARTMENT OF ECOLOGY  
WELL DRILLING UNIT

DEPT. OF ECOLOGY  
FISCAL & BUDGET

03 MAY 19 P 1:07

Work started 05/01/03

Completed 05/02/03

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 HAYES DRILLING, INC.  
(Person, firm, or corporation) (Type or print)

ADDRESS 5696 ERSHIG RD. BOW, WA

[SIGNED] M. McAdam License No. 2566

Contractor's  
Registration No. HAYESDI106J5 Date 05/13/03

07602









The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

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

# ENHANCED WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W101013

UNIQUE WELL I.D. # ACN 643

Water Right Permit No. 27-5-36N

(1) OWNER: Name Andy Airz Address 24024 85<sup>th</sup> Ave SE Woodenville wa

(2) LOCATION OF WELL: County Snohomish SW 1/4 SW 1/4 Sec 36 T. 27 N. R. 5 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) same as above

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

(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 120 feet. Depth of completed well 118 ft.

(6) CONSTRUCTION DETAILS:  
 Casing installed: 6 Diam. from +2 ft. to 114 ft.  
 Welded  Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Liner installed  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 Johnson  
 Type Stainless Steel Model No. \_\_\_\_\_  
 Diam. 6 Slot size 20 from 113 ft. to 118 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 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 \_\_\_\_\_ H.P. \_\_\_\_\_  
 Type: \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
 Static level 92 ft. below top of well Date 5-14-98  
 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? \_\_\_\_\_  
 Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ 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

Date of test \_\_\_\_\_  
 Boiler test 10 gal./min. with 5 ft. drawdown after 1 hrs.  
 Arrest 20 gal./min. with stem set at 115 ft. for 1 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
Topsoil	0	1
Brown silty clay + gravel	1	35
Gray silty clay + gravel	35	50
Brown silty sand + gravel	50	73
Brown silty sand	73	96
Brown fine sand + water	96	110
Brown sand, gravel + water	110	

RECEIVED

MAY 18 1998  
 WUORO  
 DEPT OF ECOLOGY

Work Started 5-14-98 19. Completed 5-14-98 19

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 Aquotech Well Drilling & Pumps Inc  
(PERSON, FIRM OR CORPORATION) (TYPE OR PRINT)

Address 272 Butler Cr Rd Sedro Woolley

(Signed) [Signature] License No. 1825  
(WELL DRILLER)

Contractor's Registration No. AQATWD040K4 Date 5-15-98 19

(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) 407-6800. The TDD number is (206) 407-6006.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

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

# WATER WELL REPORT

STATE OF WASHINGTON

Water Right Permit No.

Start Card No. W42273

UNIQUE WELL I.D. # W214

27-5E-36N

(1) OWNER: Name JAN SUNDE Address 21945 OAK WAY, BRICK, WA. 98036

(2) LOCATION OF WELL: County Snohomish SW 1/4 SW 1/4 Sec 36 T. 27 N. R. 5E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 24225 85<sup>th</sup> AVE. SE. Woodinville, WA. 98072

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

(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.

(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

MATERIAL	FROM	TO
0-SAND - silt/clay	0'	10'
CLAY, GRAVEL SAND	10'	18'
GRAVEL SAND, CLAY/SILT	18'	40'
GREY-SAND SILT/CLAY	40'	48'
BROWN SILTY SAND	48'	58'
BROWN SAND	58'	65'
SAND GRAVEL	65'	81'
BROWN SAND	81'	92'
BROWN SAND, GRAVEL	92'	98'
BROWN SAND, GRAVEL, CLAY	98'	105'
GREY GRAVEL, COARSE SAND	105'	120'

(5) DIMENSIONS: Diameter of well 6" inches.  
Drilled 120 feet. Depth of completed well 120 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 Diam. from 1.5 ft. to 120 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 \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ 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? 18 ft.  
Material used in seal BENTONITE CHIPS  
Did any strata contain unusable water? Yes  No   
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name SPECIALTY PUMP H.P. 3/4  
Type: \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level  
Static level 94 ft. below top of well Date \_\_\_\_\_  
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? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ 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

Date of test \_\_\_\_\_  
Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Airtest 10 gal./min. with stem set at 115 ft. for 1 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

RECEIVED RECEIVED  
JAN 25 1996 JAN 25 1996  
DEPT. OF ECOLOGY DEPT. OF ECOLOGY  
Work Started 1-5-96 19. Completed 1-8 19 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 CASCADE Drilling EPC.  
Address P.O. Box 1184 Woodinville WA.  
(Signed) Wayne King License No. 1623  
Contractor's Registration No. CASAD 1088KK Date 1-18 19 96  
(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) 407-6800. The TDD number is (206) 407-6008.

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report. Report.

# RESOURCE PROTECTION WELL REPORT

CURRENT

Notice of Intent No. 522930

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle)

Construction

Decommission ORIGINAL INSTALLATION Notice of Intent Number \_\_\_\_\_

176073

Type of Well ("x" in circle)

Resource Protection

Geotech Soil Boring

Consulting Firm LSI Adapt

Unique Ecology Well ID \_\_\_\_\_

Tag No: \_\_\_\_\_

Property Owner City of Woodinville - Water Tower

Site Address 15600 NE 263rd PL

City Woodinville County: King

Location NW 1/4 NE 1/4 Sec 2 Twn 26 SE 1/4 EW circle or one WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_ still REQUIRED) Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

WELL CONSTRUCTION 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.

Driller  Engineer  Trainee Name (Print) Frank Scott

Driller/Engineer/Trainee Signature [Signature]

Driller or Trainee License No. 2549

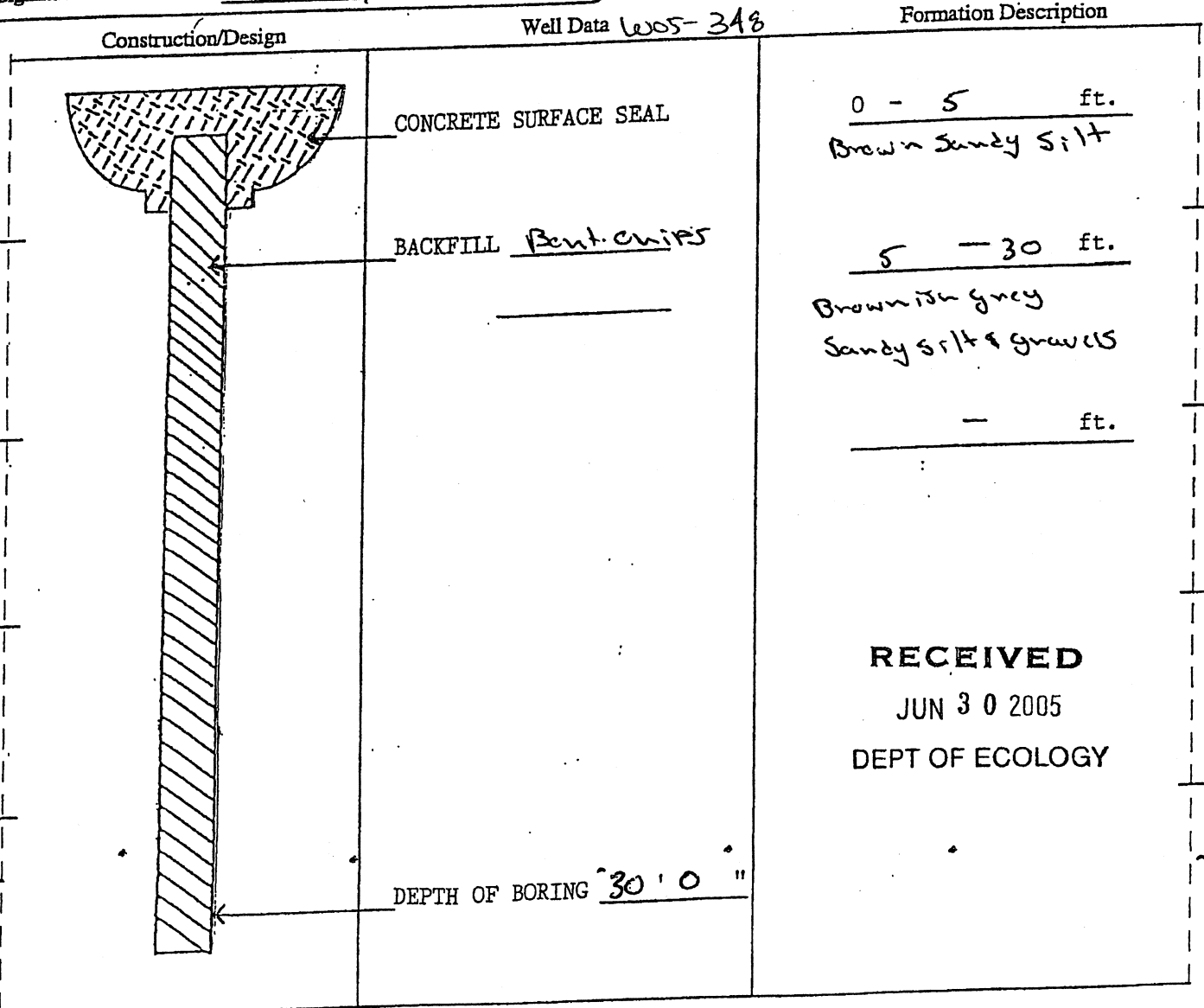
If trainee, licensed driller's Signature and License no. \_\_\_\_\_

Tax Parcel No. \_\_\_\_\_

Cased or Uncased Diameter 8" Static Level W/A

Work/Decommission Start Date 6/16/05

Work/Decommission Completed Date 6/16/05



RECEIVED  
JUN 30 2005  
DEPT OF ECOLOGY

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.



# WATER WELL REPORT

Original & 1st copy Ecology 2nd copy owner 3rd copy driller

Construction/Decommission (x in circle)

- Construction  
 Decommission ORIGINAL CONSTRUCTION Notice of Intent Number \_\_\_\_\_

**PROPOSED USE**  Domestic  Industrial  Municipal  
 DeWater  Irrigation  Test Well  Other \_\_\_\_\_

**TYPE OF WORK** Owner's number of well (if more than one) \_\_\_\_\_  
 New Well  Reconditioned **Method**  Dug  Bored  Driven  
 Deepened  Cable  Rotary  Jetted

**DIMENSIONS** Diameter of well \_\_\_\_\_ inches drilled \_\_\_\_\_ ft  
 Depth of completed well \_\_\_\_\_ ft

**CONSTRUCTION DETAILS**  
 Casing  Welded \_\_\_\_\_ Diam from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Installed  Liner installed \_\_\_\_\_ Diam from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Threaded \_\_\_\_\_ Diam from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Perforations  Yes  No  
 Type of perforator used HOITE  
 SIZE of perfs 7/8 in by 1/2 in and no of perfs H408 from -5 ft to 187 ft

Screens  Yes  No  K Pac Location \_\_\_\_\_  
 Manufacturer's Name \_\_\_\_\_  
 Type \_\_\_\_\_ Model No \_\_\_\_\_  
 Diam \_\_\_\_\_ Slot Size \_\_\_\_\_ from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Diam \_\_\_\_\_ Slot Size \_\_\_\_\_ from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Gravel/Filter packed  Yes  No  Size of gravel/sand \_\_\_\_\_  
 Materials placed from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Surface Seal  Yes  No To what depth? \_\_\_\_\_ ft  
 Materials used in seal \_\_\_\_\_  
 Did any strata contain unusable water?  Yes  No  
 Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
 Method of sealing strata off \_\_\_\_\_

**PUMP** Manufacturer's Name N/A  
 Type \_\_\_\_\_ HP \_\_\_\_\_

**WATER LEVELS** Land surface elevation above mean sea level N/A ft  
 Static level \_\_\_\_\_ ft below top of well Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lbs per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (cap valve etc)

**WELL TESTS** Drawdown is amount water level is lowered below static level  
 Was a pump test made?  Yes  No If yes by whom? \_\_\_\_\_  
 Yield \_\_\_\_\_ gal/min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs  
 Yield \_\_\_\_\_ gal/min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs  
 Yield \_\_\_\_\_ gal/min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ 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
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Date of test N/A  
 Bailer test \_\_\_\_\_ gal/min with \_\_\_\_\_ ft drawdown after \_\_\_\_\_ hrs  
 Airtest \_\_\_\_\_ 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

CURRENT Notice of Intent No A 54455  
 Unique Ecology Well ID Tag No N/A  
 Water Right Permit No \_\_\_\_\_  
 Property Owner Name Tighe Construction  
 Well Street Address 20345 166TH AVE NE  
 City Woodville County King  
 Location NW 1/4 1/4 NW 1/4 Sec 1 Twn 26 R5 EBM circle or one WWM  
 Lat/Long (s,t,r still REQUIRED) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_  
 Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_  
 Tax Parcel No \_\_\_\_\_

**CONSTRUCTION OR DECOMMISSION PROCEDURE**  
 Formation Describe by color character size of material and structure and the kind and nature of the material in each stratum penetrated with at least one entry for each change of information Indicate all water encountered (USE ADDITIONAL SHEETS IF NECESSARY)

MATERIAL	FROM	TO
CUT casing - 5' & removed		
Perforated from -5 - 187' 4 ROWS		
PRESSURE GROUT Bentonite from bottom to top		
200 gallons		
<b>RECEIVED</b>		
JUL 16 2002		
DEPT OF ECOLOGY		
Start Date <u>7-15-02</u>	Completed Date <u>7-15-02</u>	

**WELL CONSTRUCTION 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

Driller  Engineer  Trainee Name (Print) Michael Colbert Drilling Company Clearview Drilling  
 Driller/Engineer/Trainee Signature Michael Colbert Address 7723 188th St SE  
 Driller or Trainee License No 1890 City State Zip Snohomish WA  
 Contractor's Registration No clearview 3K4 Date 7-15-02  
 If trainee, licensed driller's Signature and License no \_\_\_\_\_  
 Registration No \_\_\_\_\_ Date \_\_\_\_\_

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

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DEC 13 1993

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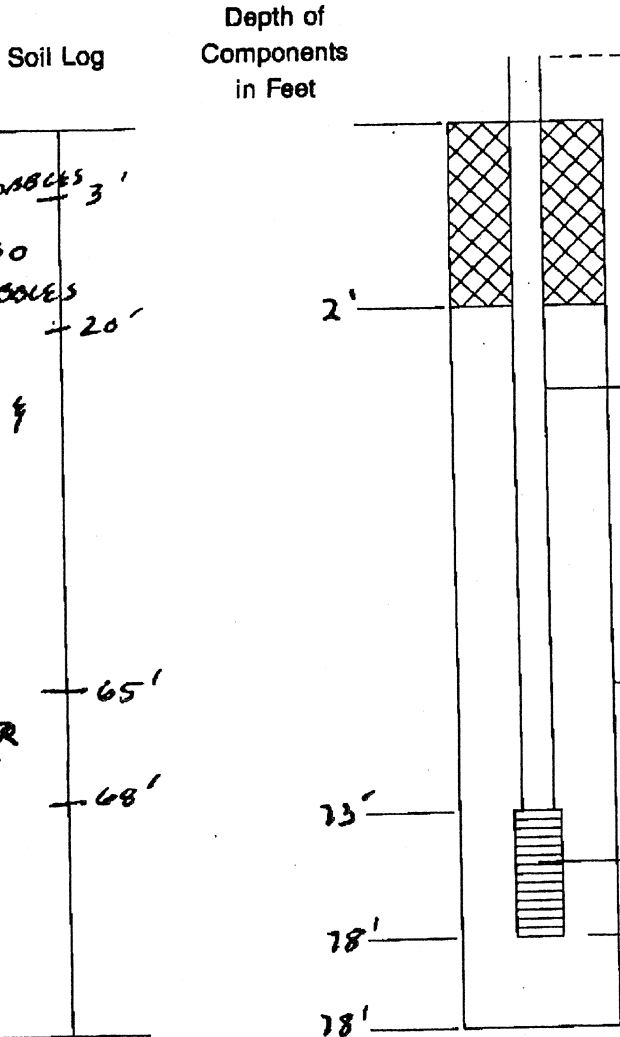
26/5E/1K

# HOLT DRILLING, INC.

## Resource Protection Well Report

Project Name 19020 176<sup>th</sup> AVE  
 Well Identification # B-7  
 Drilling Method 4" HSA  
 Driller M & Cyril  
 License # 2081

Date 11-21-93  
 County KING NW 1/4 SE 1/4  
 Section 1 T. 26 N R. 5E  
 Start Card 16674  
 Consulting Firm HART CROWSER



Stick up 2' on Monument Casing

Type of Surface Seal CONCRETE  
 Amount 2'

ID of Riser Pipe 1" sch 40  
 Type of Riser Pipe PTC  
 Amount 75'

Type of Connection Bell & Coupling

Type of Backfill around Riser BENTONITE GROUT  
 Amount 66"

Diameter of Borehole 10"

Screen Size or Type OUTER .020 2" - .010 1" INNER

Type of Filter Material 10-20 CSS  
 Amount 10'

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature Veletta J. Gray



# WATER WELL REPORT

**STATE OF WASHINGTON**

(1) OWNER: Name F. W. RICHARDSON Address 2010 3-17th Ave NE Woodinville  
 (2) LOCATION OF WELL: County K. N. NW 1/4 NE 1/4 Sec 1 T26 N. R 3E W.M.  
 Bearing and distance from section or subdivision corner

(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        ft. Depth of completed well        ft.

(6) CONSTRUCTION DETAILS:  
 Casing installed: 6" Diam. from 0 ft. to 65 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         
 Type        Model No.         
 Diam.        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?        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) PUMP: Manufacturer's Name DEMING  
 Type: JET HP 1/2  
 (8) WATER LEVELS: Land-surface elevation        ft. above mean sea level.  
 Static level 0 ft. below top of well Date 1958  
 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? E. F. AXELSEN  
 Yield: 8 gal./min. with 20 ft. drawdown after 7 ~~MINS~~ YEARS  
 " " " " " "  
 " " " " " "  
 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

 Date of test         
 Bailer test 12 gal./min. with        ft. drawdown after 1 hrs.  
 Artesian flow 0.25 g.p.m. Date 1958  
 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
BRN SANDY LOAM	0	2
BRN TILL	2	10
GRY TILL	10	35
BRN SILTY SAND w/oc CULL	35	60

MAY 15 1980

Work started       , 19 58 Completed       , 19 58

**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 AXELSEN DRILLING (Person, firm, or corporation) (Type or print)  
 Address 18802-92 NE BOTHELL W 98011  
 [Signed] [Signature] (Well Driller)  
 License No. 0008 Date AUG 1978

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

# WATER WELL REPORT

STATE OF WASHINGTON

26/05-03 B  
Application No  
Permit No. 20\*

(1) OWNER: Name MARRY DRENKEL Address 20014-144<sup>th</sup> N.E. Woodinville 98027  
(2) LOCATION OF WELL: County King W-4-W-50<sup>th</sup> Govt Lot 1 1/4 Sec. 3 T. 26N., R. 5E W.M.  
Bearing and distance from section or subdivision corner 150'SD AND 60'W OF N.E. CORNER (NW<sup>1/4</sup>; NE<sup>1/4</sup>) 623

(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 97.6 ft. Depth of completed well 47.6 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6" diam. from \_\_\_\_\_ ft. to 90.6 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 Model No. \_\_\_\_\_  
Diam. 6 Slot size 1/4 from 90 ft. to 95 ft.  
Diam. \_\_\_\_\_ Slot size Blank from 95 ft. to 97 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 STA-Rite  
Type: 306MS630ES H.P. 34

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level 95.6 ft. below top of well Date \_\_\_\_\_  
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? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ 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

Date of test \_\_\_\_\_  
Bailer test 10 gal./min. with 15 ft. drawdown after 2 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
<u>Soil sand and gravel</u>		<u>12</u>
<u>Blue clay w/ large aggregate</u>	<u>12</u>	<u>19</u>
<u>Blue clay w/ fine aggregate</u>	<u>19</u>	<u>26</u>
<u>gray sandy clay</u>	<u>26</u>	<u>57</u>
<u>yellow clay w/ sand, small gravel</u>	<u>57</u>	<u>57</u>
<u>sand and gravel w/ water</u>	<u>57</u>	<u>95</u>
<u>sandy clay</u>	<u>95</u>	<u>97</u>

Work started 5/10/77 19\_\_\_\_ Completed 6/14 1977

**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: Ralph Medlen Well Drilling  
(Person, firm, or corporation) (Type or print)

Address: 417 N. 87<sup>th</sup> Seattle 98103

[Signed] Ralph Medlen  
(Well Driller)

License No. 306 Date 6/29, 1977

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.



~ 0.5 miles NE

26-5E-2D

124595

1200

# WATER WELL REPORT STATE OF WASHINGTON

Start Card No. A47522  
Unique Well I.D.# ABANDONED NON  
Water Right Permit No.

(1) OWNER: JIM HOFFLIN ADDRESS: 14816 NE 192nd ST, Woodinville 98072

(2) LOCATION OF WELL: County. KING NW 1/4 NW 1/4 Sec 02 T 26 N, R 05 WM  
(2a) STREET ADDRESS OF WELL (or nearest Address): 14842 NE 192

(3) PROPOSED USE: Domestic Industrial Municipal  
Irrigation TEST WELL Other....  
DeWater

(4) TYPE OF WORK: Owner' No of Well if more than one: 1  
Abandoned X New Well..... METHOD Dug... Bored. 1  
Deepened..... Cable. Driven  
Reconditioned Rotary

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

(5) DIMENSIONS: Diameter of well 48 inches.  
Drilled 0.00 Feet Depth of completed well 0.00 Ft.

THIS WELL WAS ABANDONED TO THE SPECIFICATIONS LISTED IN THE  
VARIANCE ISSUED 10-30-02  
CERTIFIED MAIL 70012510000208976637  
SEE ATTACHMENT TO THIS REPORT

(6) CONSTRUCTION DETAILS:  
Casing Installed: 48 Diam From +.5 Ft To 3.5 Ft  
Welded Diam From Ft To Ft  
Liner Inst X 36 Diam From 3.5 Ft To 23.66 Ft  
Threaded

Perforations: NO  
Types of perforator used  
Size of perforations Inches, by Inches  
Perforations from ft to  
Perforations from ft to  
Perforations from ft to

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 Size of gravel.

Surface seal: NO To What Depth?: Ft  
Material used in seal  
Did any strata contain unusable water?:  
Type of water: Depth of strata: Ft  
Method of sealing strata off:

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

(8) WATER LEVELS? Above mean sea level  
Static Level 11.5 Ft. below top of well Date: 10/15/02  
Artesian pressure Lbs. per square inch Date: / /  
Artesian water is controlled by:

Work Started 11/18/02 Work Completed 11/18/02

(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.  
Yield: Gal/min. with Ft drawdown after Hrs.  
Yield: Gal/min. with Ft drawdown after Hrs.  
RECOVERY DATA  
Time Water Level Time Water Level Time Water Level

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 the best knowledge and belief.

Name: HIMEBAUGH DRILLING - BOYD HIMEBAUGH  
Address: 828 B PORTAGE STREET, ARLINGTON, WA 98223  
(Signed) *Boyd Himebaugh* License No 1877  
Contractors Registration  
No. HIMEBD099CK Date 11/24/02

Date of test / /  
Ballor Test gal/min with ft. drawdown after Hrs  
Airtest gal/min with stem set at ft for Hrs  
Artesian flow G.P.M. Date / /  
Temperature of Water Was a chemical analysis made?:

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DEC 06 2002  
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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

# WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 38527  
27/5E/35 P 22

Water Right Permit No. \_\_\_\_\_

(1) OWNER: Name 1000 Fredrickson Address 24333 75th AVE SE Woodinville

(2) LOCATION OF WELL: County Snohomish SW & SE Sec 35 T. 27 N. R. 5 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 24333 75th AVE SE Woodinville

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

**(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.

(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

MATERIAL	FROM	TO
Top soil	0	2
Sandy brown clay	2	14
Till gray	14	60
Gravel	60	75
Brown sand w/ gravel	75	135
consolidated gravel w/ coarse sand water bearing	135	156

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 156 feet. Depth of completed well 156 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 Diam. from 0 ft. to 156 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. \_\_\_\_\_ 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? 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 Sta-e-tic  
Type: sub. H.P. 3/4

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level 121 ft. below top of well Date 7-9  
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? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ 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

Date of test \_\_\_\_\_

Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian 20 gal./min. with stem set at 155 ft. for 1 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

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**AUG 08 1991**  
DEPT. OF ECOLOGY

Work started 7-9 1991 Completed 7-9 1991

**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 Anderson Drilling Co. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)  
Address 6310-145th Dr NE L.S.  
(Signed) [Signature] License No. 1367  
(WELL DRILLER)  
Contractor's Registration No. ADRC 13204 Date 7-9 1991

(USE ADDITIONAL SHEETS IF NECESSARY)

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

ENTERED

# WATER WELL REPORT

STATE OF WASHINGTON

Water Right Permit No. \_\_\_\_\_

(1) OWNER: Name JUSTIN HALE Address 23810 75TH AVE SE, WOODINVILLE

(2) LOCATION OF WELL: County SNOHOMISH SW 1/4 SW 1/4 Sec 35 T. 27 N. R. 5 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 23810 75TH AVE SE, WOODINVILLE

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

### (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
SILT	0	8
SILTY CLAY	8	16
SILTY SAND	16	137
SILTY SAND & GRAVEL	137	161

(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 \_\_\_\_\_ inches.  
Drilled 161 feet. Depth of completed well 161 feet.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 ft. Diam. from 4 ft. to 157 ft.  
Welded  ft. Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed  ft. Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded  ft. 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. 5 Slot size .010 from 156 ft. to 161 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 RENTONITE  
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. \_\_\_\_\_  
Type: \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
Static level 135 ft. below top of well Date 8-1-94  
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? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_  
Baller test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Airtest 5 gal./min. with stem set at 135 ft. for 1 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date 8-1-94  
Temperature of water 57 Was a chemical analysis made? Yes  No

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AUG - 8 1994

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Work Started 8-1-94, 19. Completed 8-1-94, 19

### 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 CASCADE DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address P.O. BOX 1184 WOODINVILLE WA

(Signed) [Signature] License No 2148  
(WELL DRILLER)

Contractor's Registration No. \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_

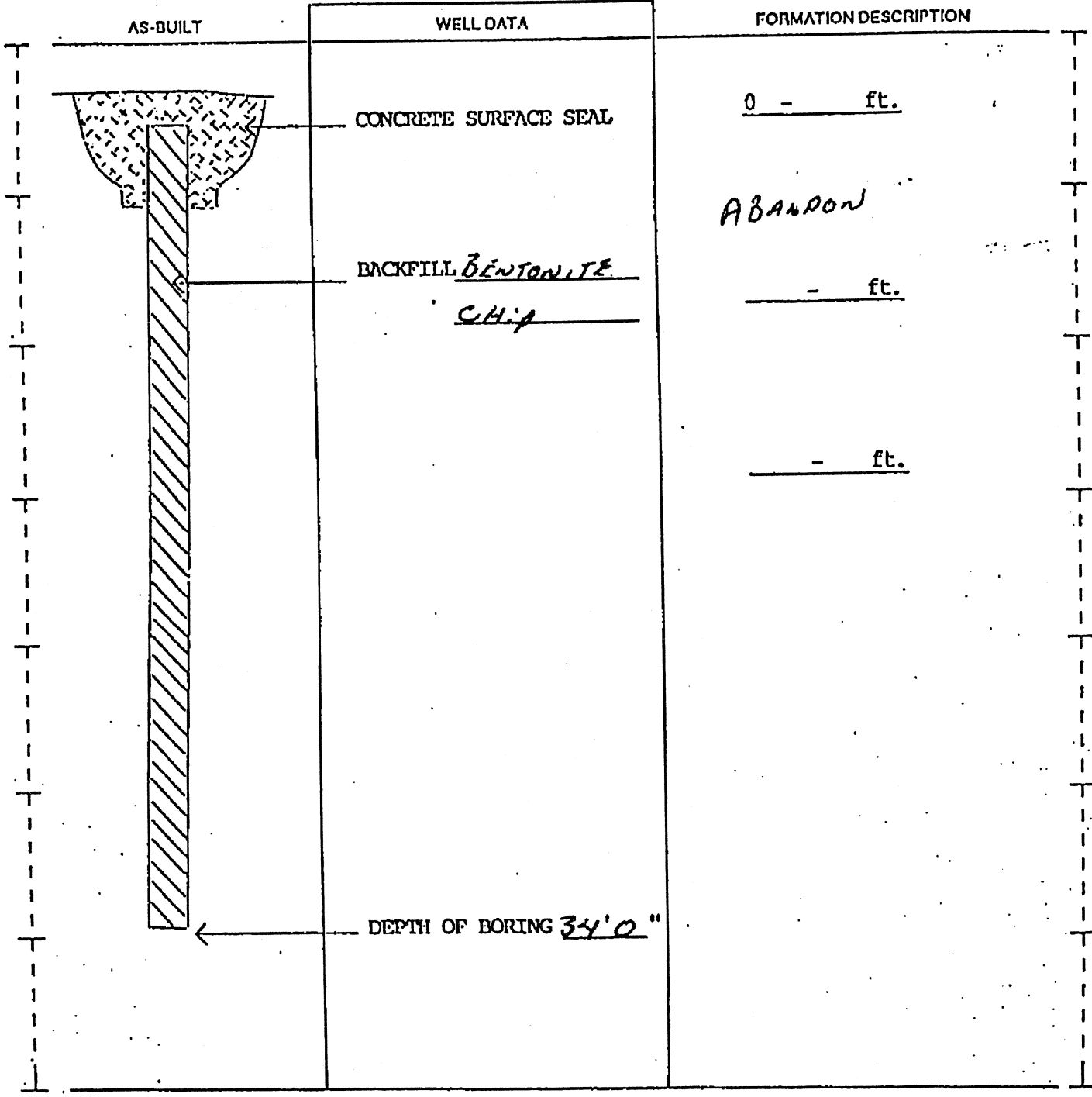
(USE ADDITIONAL SHEETS IF NECESSARY)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

PROJECT NAME: Woodville Industrial Park  
 WELL IDENTIFICATION NO. n/a  
 DRILLING METHOD: ABANDON  
 DRILLER: F. Lynn Gable  
 FIRM: Cascade Drilling, Inc.  
 SIGNATURE: F. Lynn Gable  
 CONSULTING FIRM: West Core, LLC  
 REPRESENTATIVE: Randy Whitman

COUNTY: King  
 LOCATION: NE 1/4 NE 1/4 Sec 3 Twn 26N R 5E  
 STREET ADDRESS OF WELL: 19563 - 144th St Woodville  
 WATER LEVEL ELEVATION: N/A  
 GROUND SURFACE ELEVATION: N/A  
 INSTALLED: 8-18-97  
 DEVELOPED: n/a

7379



SCALE: 1" = \_\_\_\_\_

PAGE \_\_\_\_\_ OF \_\_\_\_\_

FGY 050.12 (Rev 11/00)

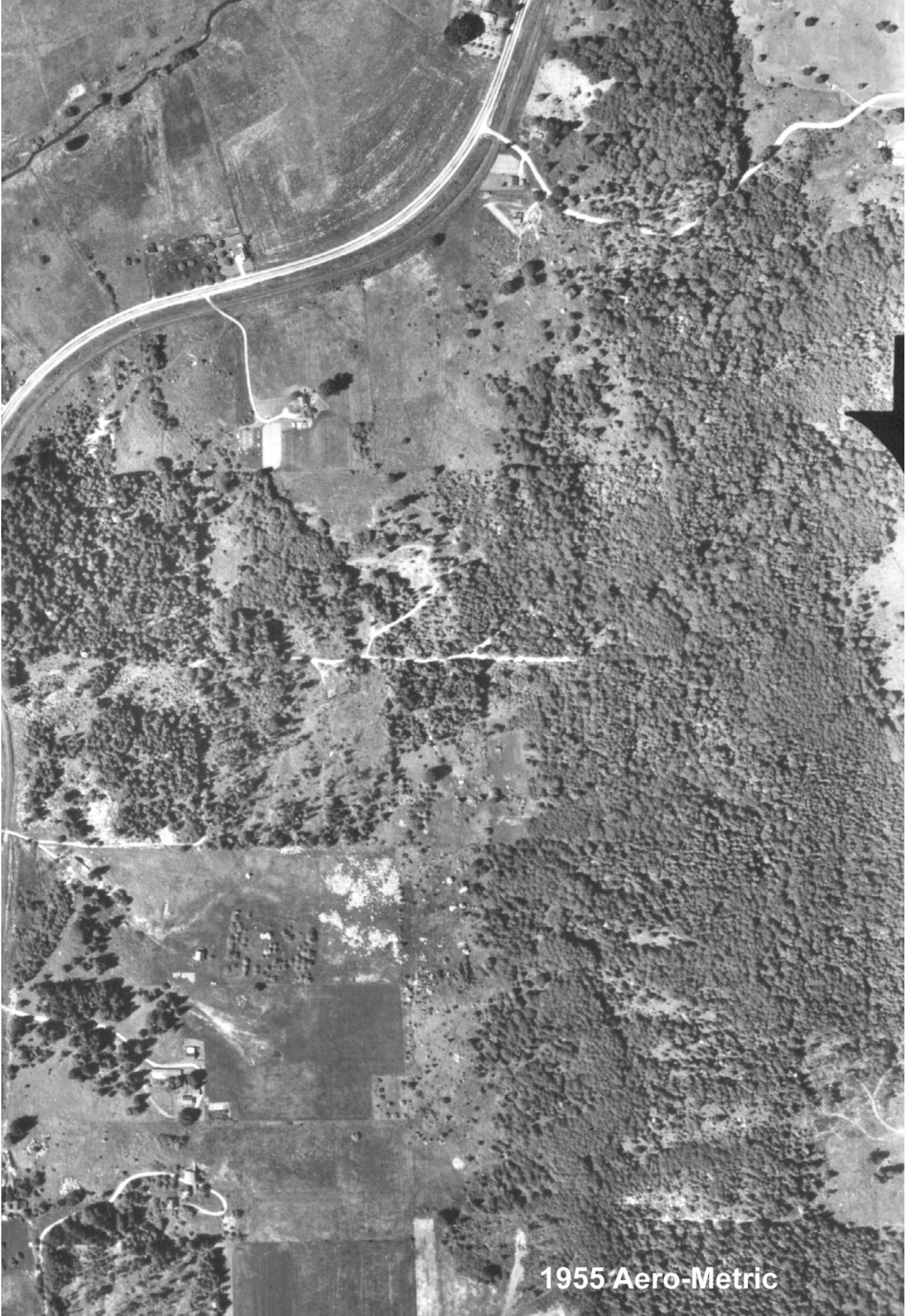


1947 Aero-Metric

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1955 Aero-Metric



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1967 Aero-Metric

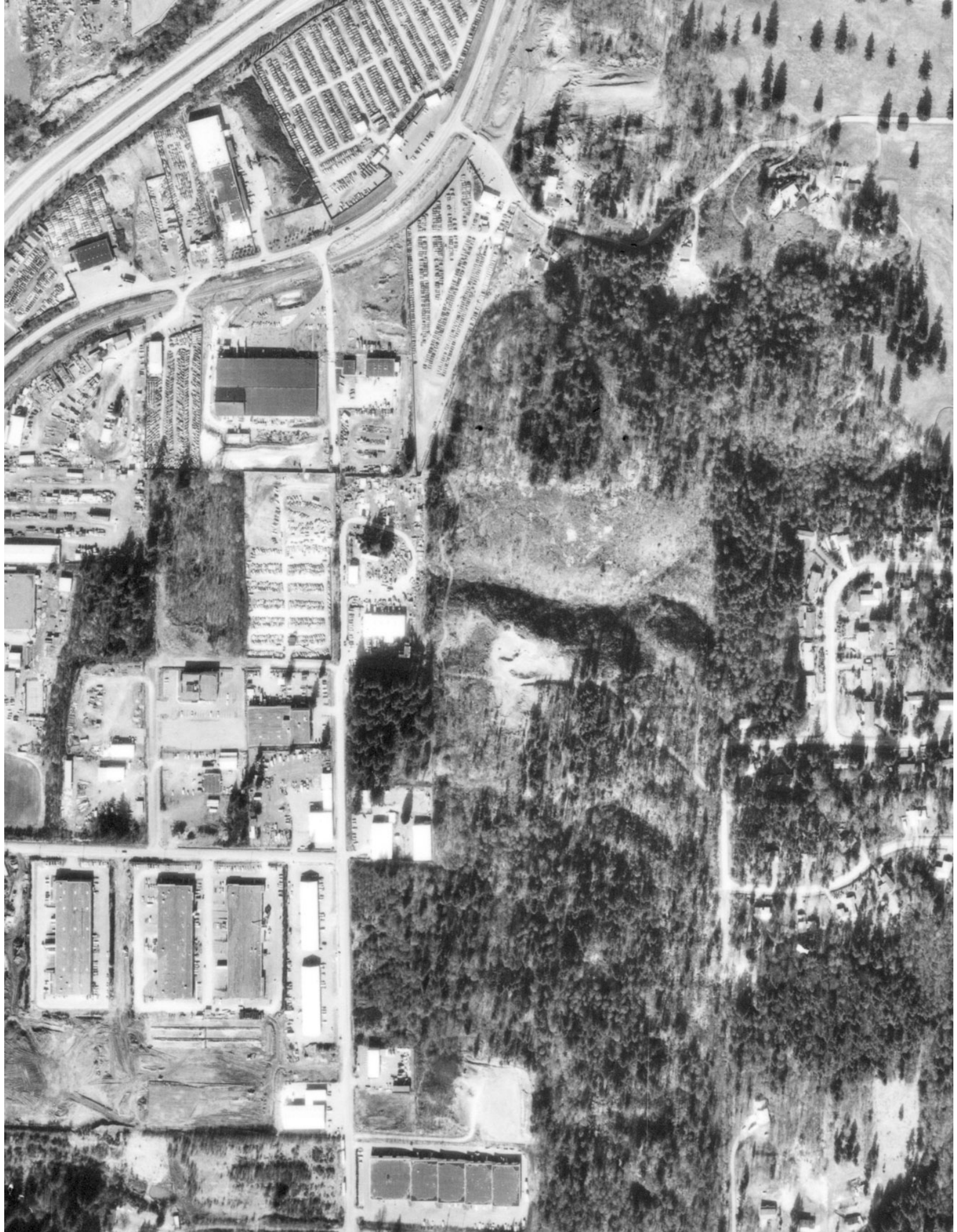
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1976 Aero-Metric

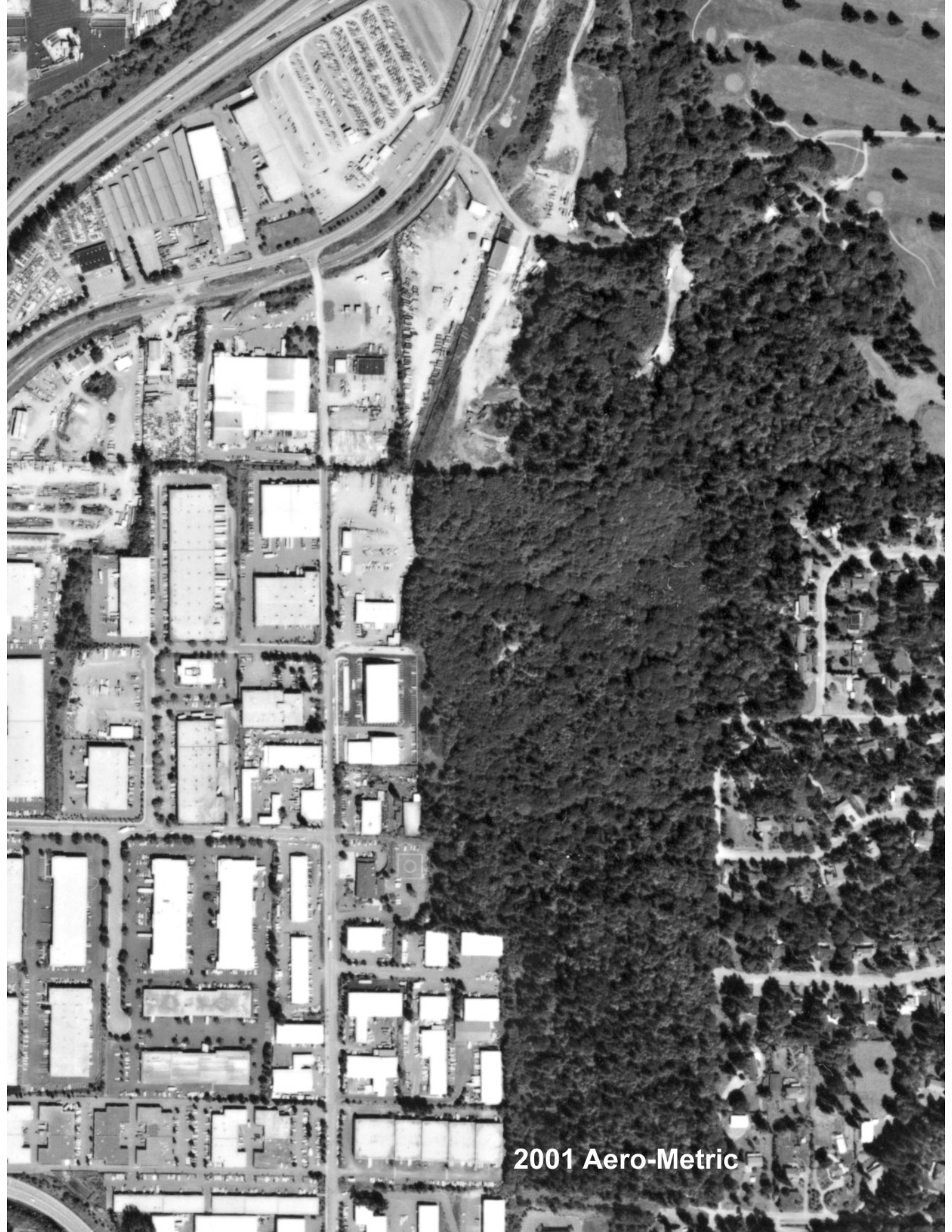
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1985 Aero-Metric

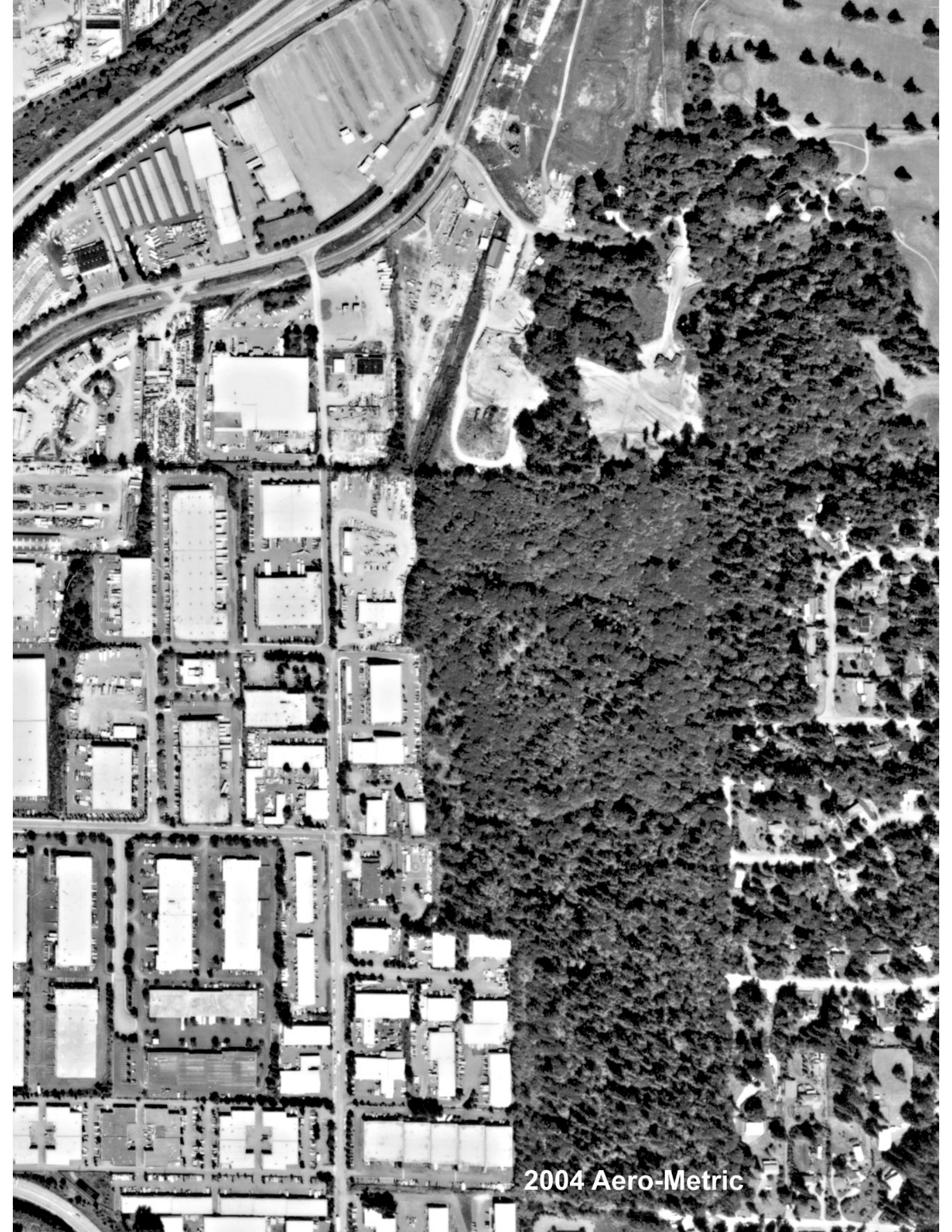
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2001 Aero-Metric

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2004 Aero-Metric

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