



# Oregon

Theodore R. Kulongoski, Governor

Department of Environmental Quality

Northwest Region North Coast Branch Office

65 N Highway 101, Suite G

Warrenton, OR 97146

(503) 861-3280

FAX (503) 861-3259

July 21, 2004

Brett Morgan  
79170 Cove Beach Rd.  
Arch Cape, OR 97102

**IMPORTANT DOCUMENT – PLEASE READ CAREFULLY**

**-This is not a construction permit-**

RE: **Site Evaluation Results – Site Approval With Conditions**  
Township/Range/Section: T4N, R10W, Sec. 31CB; Tax Lot No. 203, Clatsop County

Dear Bret Morgan:

The above-described property was evaluated for suitability of on-site sewage disposal systems on the following date(s): July 15, 2004. Based on this evaluation, the following on-site sewage disposal systems are approved:

**Initial system:** Standard, 300 linear feet of disposal trenches  
**Replacement system:** Standard, 300 linear feet of disposal trenches

Details of the site evaluation are included in the Site Evaluation Report that is enclosed. The Site Evaluation Report also includes more specific information and further conditions of site approval.

**Next Step – Applying for a Construction/Installation Permit**

When you are ready to proceed with system construction, contact this office to get a permit application package. The permit must be issued by DEQ before you can start construction.

**Request for Site Evaluation Report Review or Request for Variance**

If you believe that an error was made in the evaluation of your property, you may apply for a Site Evaluation Report Review within 30 days of the site evaluation report issue date at a cost of \$440. If you would like to apply for a Variance from one or more of the On-Site Sewage Disposal rules, you may apply for a Variance at a cost of \$1340. If you are interested in either of these actions, please contact the undersigned for more details before you proceed.

Best wishes on a successful project. If you have any other questions about this report, please feel free to call me at (503) 861-3280.

Sincerely,

Connie M. Schrandt  
Natural Resource Specialist

Enc: Site Evaluation Report

cc: Big River Excavating, 1050 Olney Ave., Astoria, OR 97103



**Site Evaluation Report  
For On-Site Sewage Disposal System Suitability**

Site Location: T4N, R10W, S31CB, Tax Lot No. 203, Clatsop County  
Applicant: Big River Excavating  
Date(s) of Site Evaluation: July 15, 2004  
DEQ Onsite Specialist: Connie M. Schrandt  
Date of Report: July 21, 2004

**General Description of Site Evaluations**

Sewage contains disease-causing organisms and other pollutants that can cause adverse impacts to human health and the environment. An on-site sewage disposal system must treat and dispose of sewage in a way that will not cause a public health hazard, contaminate drinking water supplies, or pollute public waters.

Proper functioning of an on-site system begins with primary treatment in the septic tank. The septic tank separates the solid particles in sewage from the liquid. The liquid that comes out of the septic tank is called effluent. The effluent may then be dispersed in the soil for further treatment or discharged into a secondary treatment device such as a sand filter or aerobic treatment unit prior to dispersal in the soil. For proper treatment, the effluent must slowly infiltrate into the underlying soil. Dissolved wastes and bacteria in the effluent are trapped or adsorbed to soil particles or decomposed by microorganisms. This process removes disease-causing organisms, organic matter, and most nutrients. Effluent that comes to the ground surface (through poor soils or other problems with the system) can be a possible health hazard because it may still contain some disease-causing organisms. Soil that drains too quickly may not give the effluent enough treatment and may result in groundwater contamination.

The purpose of the evaluation was to locate suitable soils in an area that is large enough for both the initial and the replacement disposal areas. The criteria used for this site evaluation can be found in Oregon Administrative Rules (OAR) 340-071.

Soil test pits and other site features were evaluated during the site visit on July 15, 2004. In the site inspection, the following features were evaluated:

- Soil types - how well they drain and other evidence of good soil structure for treatment
- Depth to groundwater
- Wells located on the site or adjacent sites.
- Slopes, escarpments, ground surface variations, topography
- Creeks or springs on the site or adjacent properties
- Whether the soils have been disturbed
- Setbacks from property lines, buildings, water lines, and other utilities
- Other site features that could affect the placement of the on-site system.
- 



## **Approved Systems**

Based on the evaluation of the site and soil conditions, the following on-site sewage disposal systems are approved:

<b>Initial System:</b>	System Type: Standard Minimum Septic Tank Size: 1000 gallons Total linear feet of disposal trenches: 300 Distribution Method: Serial Trench Depths: Maximum - 36" and Minimum - 24"
<b>Replacement System:</b>	Same as for Initial System

Attached are the Field Worksheet and Plot Plan, which show the approved areas and other details of the site evaluation.

## **Additional Conditions of Site Approval**

1. This site is approved for the type of disposal system described above. Peak sewage flow into the system is limited to a maximum of 450 gallons per day, with an average sewage flow of not more than approximately half of the peak sewage flow. This is normally sufficient to serve a single family dwelling with a maximum of four bedrooms. Premature failure of the treatment system may occur if either of these flow limits are exceeded. If for some reason you expect your domestic household water use to exceed these flows, it may be advisable to increase the size of the treatment system.
2. Any alteration of natural soil conditions (i.e. cutting or filling) in the acceptable area may void this approval.
3. Both the initial and replacement disposal areas are to be protected from traffic, cover, development or other potential disturbance of natural soil conditions.
4. The area must not be subjected to excessive saturation due to, but not limited to, artificial drainage of ground surfaces, roads, driveways and building down spouts.
5. This approval is given on the basis that the property described above will not be further partitioned or subdivided.
6. Field staking of disposal trenches for both the initial and replacement disposal areas may be required prior to issuance of a permit to construct the approved systems.

This site approval is valid until the system approved above is constructed in accordance with a DEQ construction permit. Technical rule changes shall not invalidate this approval, but may require use of a different kind of system. If there is a technical rule change affecting this site approval, the Department will attempt to notify in writing the current property owner as identified by the county assessor's records. The site approval runs with the land and will automatically benefit subsequent owners.

Attachment: Field Worksheet and Plot Plan



## FIELD WORKSHEET

Tax reference T4N R10W Sec. 31CB, TL# 203 Clatsop Co Evaluator CMS  
 Applicant Big River Excavating Date 7-15-03 Parcel Size 1.36 acre

	Depth (in.)	Texture	Soil Matrix Color and Redoxymorphic Features, %Coarse Fragments, Roots, Pores, Structure, Layer Limiting Effective Soil Depth, etc.	
Pit 1	0-13	sil	10YR <sup>3/2</sup> ; crumbly → 1SBK, many vf. F, M & L roots	1
	13-24	↓	10R <sup>4/3-2</sup> : 1SBK; common vf. F, M & L roots to 36" hrs	
	24-47	↓	10YR W/common med-coarse, poor RDFs (2.5Y <sup>5/3</sup> or 2.5Y <sup>4/6</sup> ); sl sticky 1-2 SBK	
	47-53	sil	sim colors w/ more grays (2.5Y <sup>5/2-1</sup> )	
	53-72	csl	gravelly, cobbly; 2 SBK → sd cemented colluvium; variegated colors	
Pit 2	0-9	sil	10YR <sup>3/2</sup> → 4/3; crumbly to 1 SBK; comm. vf. F, M & L roots to ~38" hrs	2
	9-28	↓	10YR <sup>4/3</sup> ; 1 SBK	
	28-70	csl/sil	cobbly, rocky sim to Pit 1 @ 53-72" with more interstitial soil	
Pit 3	0-12	↓	similar to Pit 2 w/ common vf. F, M & L roots to ~34" hrs	3
	12-27	↓	& common RDFs	
	27-48	↓		
	48-61	↓		

Landscape Notes Coastal Mountain slope - convex-convex/linear  
 Slope ~8-30% Aspect varies Groundwater Type No evidence

Other Site Notes: Drainfield areas to be 100 ft. from any groundwater or year-round surface water, 50' from intermittent surface waters and 10' from foundations, property lines and utility lines. Septic tank to be 50' from any groundwater or surface water, 5' from foundations, property lines and utility lines.

RDFs associated w/ organic decomposition

### SYSTEM SPECIFICATIONS

Type System: **STANDARD** Design Flow: 450 gpd Disposal Field Size: 300 total linear ft.

Initial serial System Sizing: 100 linear ft/150gpd Max/Min Depths Required (in): 24/24  
 Replacement " System Sizing: " linear ft/150gpd Max/Min Depths Required (in): "

#### Special Conditions:

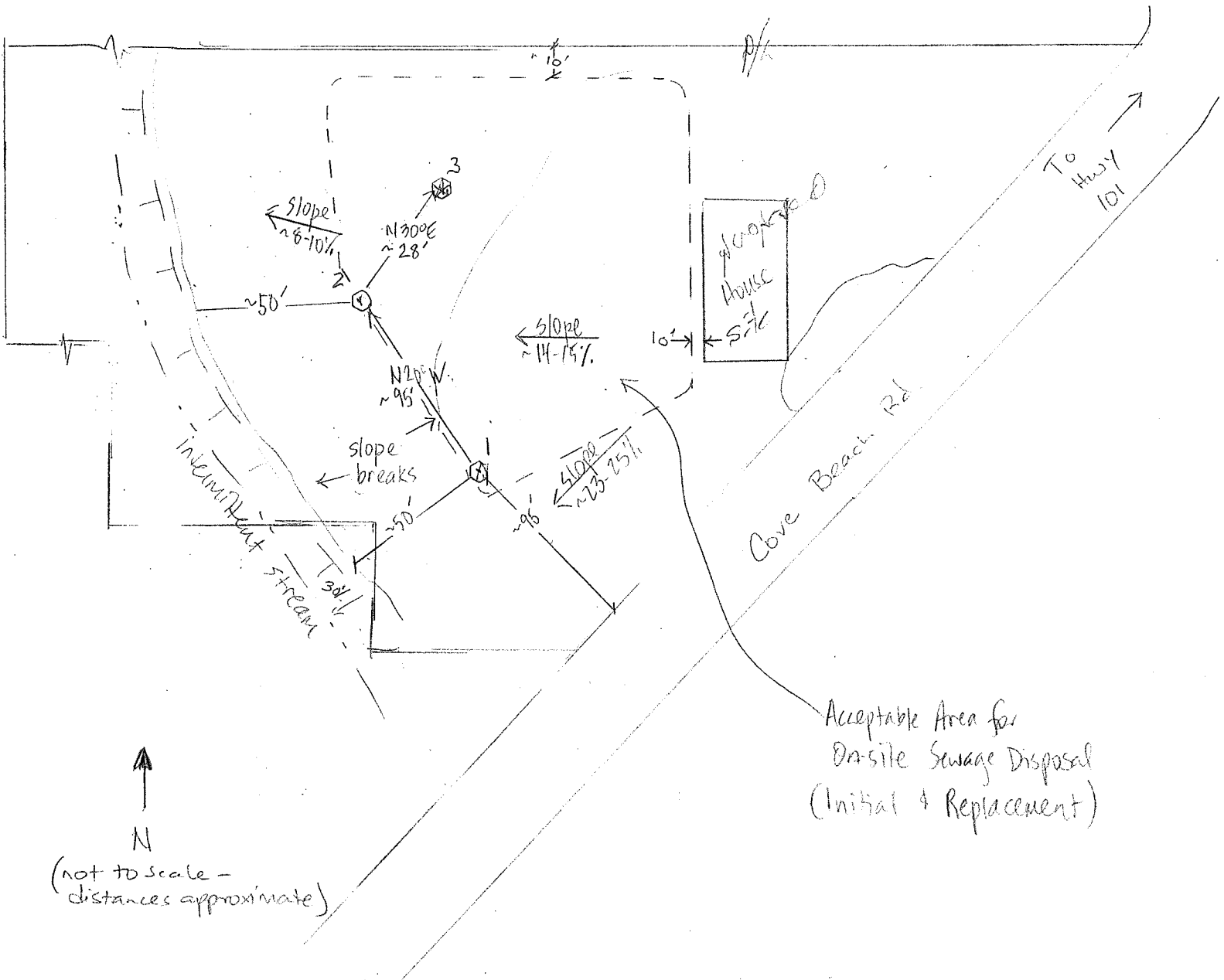
- A detailed site development plan of proposed system construction (located within area of approved test holes) is required with permit application. The plan must show proposed system placement as it relates to existing and/or proposed structures, wells, waterways, roads and parking areas.
- Honor all required setbacks (OAR 340-071, Table 1) and required separation distances.
- Disposal areas to be kept free of cover, traffic, development or other potential disturbance of soil conditions described.

We recommend a DEQ licensed sewage disposal business prepare plans for DEQ construction/installation permit and install/repair/alter system following permit issuance. Please call 503-861-3280 if you have questions.

PLOT PLAN ON REVERSE SIDE

NAME Brett Morgan

T 4N R 10W S 31CB TL# 203



N  
(not to scale -  
distances approximate)

Acceptable Area for  
On-site Sewage Disposal  
(Initial & Replacement)

**Additional pits**

4 \_\_\_\_\_

5 \_\_\_\_\_

**Notes**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## FIELD WORKSHEET

Tax reference T4N R10W Sec. 31CS TL# 203 Clatsop Co Evaluator CMC  
 Applicant Bio River Excavation Date 7-15-83 Parcel Size 1.56 acre

	Depth (in.)	Texture	Soil Matrix Color and Redoxymorphic Features, %Coarse Fragments, Roots, Pores, Structure, Layer Limiting Effective Soil Depth, etc.	
Pit 1	0-15	sil	10YR3/2: crumbly → 1 SBK. many v.f. f. m & l roots	1
	12-24		10YR4/3-2: 1 SBK? common v.f. f. m & l roots to 26" base	
	24-47	↓	10YR 6/1 common med-coarse gran RDPs (2.5Y 6/1 7.5Y 6/6); sl sticky 1-2 SBK	
	47-53	silcl	sil. color w/ more gran (2.5Y 5/4)	
Pit 2	53-72	CSL	gravelly, cobbly; 2 SBK → rd cemented colluvium, variegated colors	
	0-9	sil	10YR3/2 → 4/3; crumbly to 1 SBK; comm. v.f. f. m & l roots to ~38" base	2
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	28-70	CSL/sil	cobbly, med sil to Pit 1 @ 53-72" with more interstitial soil	
Pit 3	0-12		similar to Pit 2 w/ common v.f. f. m & l roots to ~30" base	3
	12-27		& common RDPs	
	27-48			
	48-61			

Landscape Notes Coastal Mountain Slope - convex-convex / linear  
 Slope ~8-30% Aspect varies Groundwater Type No evidence

Other Site Notes: Drainfield areas to be 100 ft. from any groundwater or year-round surface water, 50' from intermittent surface waters and 10' from foundations, property lines and utility lines. Septic tank to be 50' from any groundwater or surface water, 5' from foundations, property lines and utility lines.  
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### SYSTEM SPECIFICATIONS

Type System: **STANDARD** Design Flow: 450 gpd Disposal Field Size: 300 total linear ft.

Initial serial System Sizing: 100 linear ft/150gpd Max/Min Depths Required (in): 24/24  
 Replacement " System Sizing: 4 linear ft/150gpd Max/Min Depths Required (in): " "

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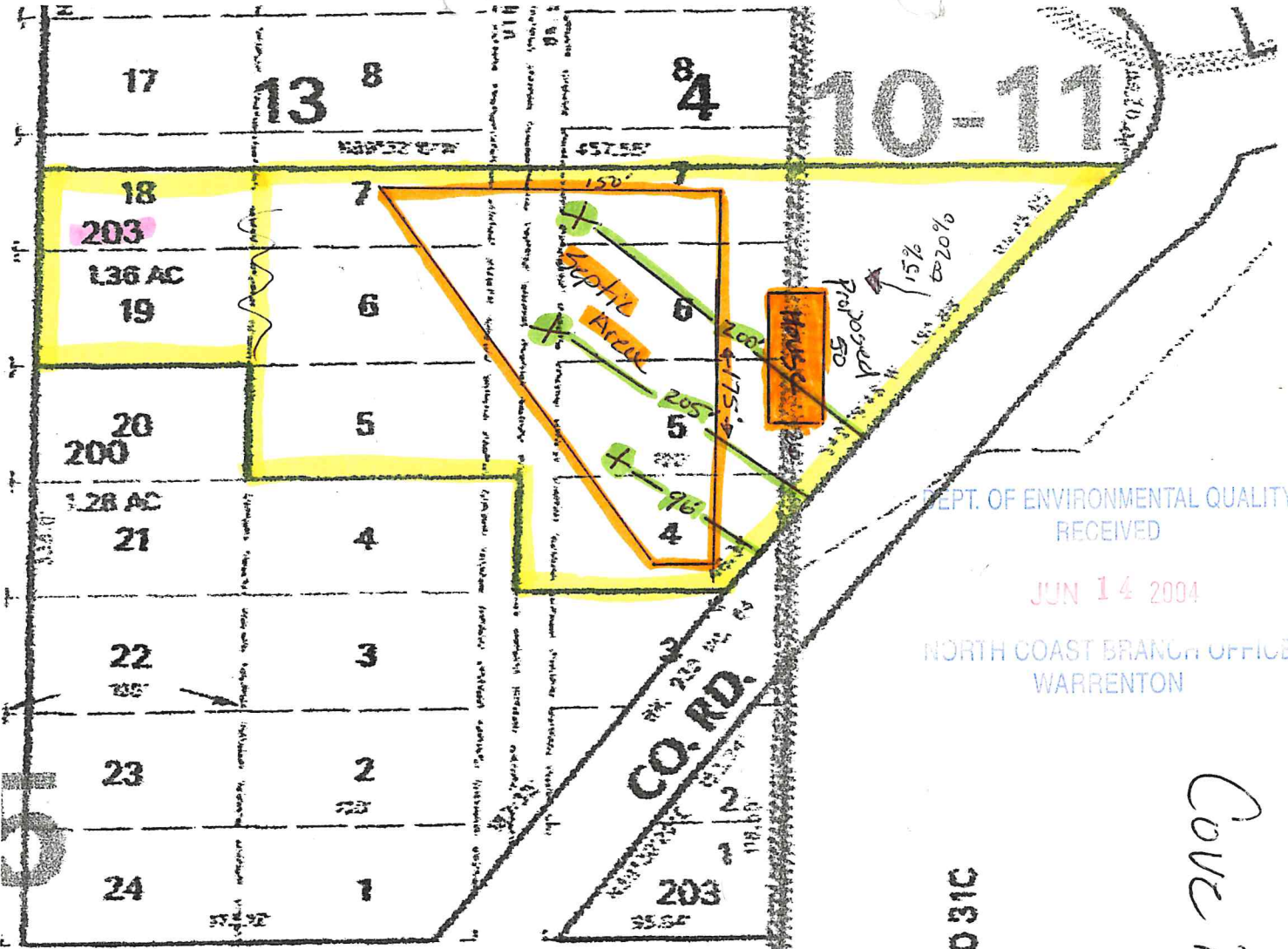
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Attachment: Field Worksheet and Plot Plan







DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED  
JUN 14 2004  
NORTH COAST BRANCH OFFICE  
WARRENTON

SEE MAP 4 1031C

*Cove Beach*

1100	13	12
14	11	
15	10	
1103	16	9
17	8	

12	1205
11	
10	
9	
8	

*Big River Excavating*

STATE OF OREGON  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
NORTH COAST OFFICE  
65 N. Highway 101, Suite G  
Warrenton, OR 97146  
(503) 861-3280

FOR OFFICE USE ONLY  
Date Rec'd 6-14-04  
Date Completed \_\_\_\_\_  
Required Fee \$465.00  
Receipt No. 112755  
Control No. \_\_\_\_\_

FOR APPLICANT'S USE - (PLEASE PRINT)

Brett Morgan  
(Property Owner's Name)

1.30 AC  
Lot Size (Acreage or Dimensions)  
Big River Excavating  
(Applicant's Name if Different from Owner)

Legal Description of Property N 10 31CB 203 Clatsop  
(Township) (Range) (Section) (Tax Lot/Acct. No.) (County)

For Parcels in Platted Subdivisions, Indicate (Subdivision Name) (Lot Number) (Block Number)

Proposed Facility

Single Family Residence 3  
(Number of Bedrooms)  
 Other \_\_\_\_\_  
(Specify)

Water Supply

Public (Community System)  
 Private \_\_\_\_\_  
(Indicate: Well, Spring, Etc.)

Existing Facility

Single Family Residence \_\_\_\_\_  
(Number of Bedrooms)  
 Other \_\_\_\_\_  
(Specify)

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED  
14  
JUN 14 2004  
NORTH COAST BRANCH OFFICE  
WARRENTON

APPLICATION FOR:

- Site Evaluation Report
- Permit to Construct On-Site Sewage Disposal System
- Permit to Repair On-Site Sewage Disposal System
- Permit for Alteration of On-Site Sewage Disposal System
- Permit Renewal
- Existing System Report
- Plan Review
- Other (Specify) \_\_\_\_\_

- Authorization Notice  
Purpose of Authorization Notice
- Connect to an existing system not currently in use
- Replace one mobile home with another or a house
- Replace or rebuild a house
- Addition of one or more bedroom
- Personal hardship
- Temporary housing
- Other (Specify) \_\_\_\_\_

This application will be returned if it is not filled out completely and accompanied by the appropriate fee and attachments required in the guidance packet. Your site must be prepared according to instructions in the guidance packet before action can be taken on this application.

By my signature, I certify that the information I have furnished is correct, and hereby grant the Department of Environmental Quality and its authorized agent permission to enter onto the above described property for the purpose of this application.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

Authorized Representative  
 Licensed Installer  
License No. 38236

Owner's Mailing Address  
79170 Cove Beach Road  
Arch Cape, OR 97102

Applicant's Mailing Address (if different)  
Big River Excavating  
1050 Olney Ave  
Astoria, OR 97103

Phone 436-1177

Phone 338-3878

IW\WC8\WC8690 (7-19-91)

STATE OF OREGON  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
NORTH COAST OFFICE  
65 N. Highway 101, Suite G  
Warrenton, OR 97146  
(503) 861-3280

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(Specify)

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(Number of Bedrooms)  
 Other \_\_\_\_\_  
(Specify)

APPLICATION FOR:

- Site Evaluation Report
- Permit to Construct On-Site Sewage Disposal System
- Permit to Repair On-Site Sewage Disposal System
- Permit for Alteration of On-Site Sewage Disposal System
- Permit Renewal
- Existing System Report
- Plan Review
- Other (Specify) \_\_\_\_\_

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 Licensed Installer  
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Big River Excavating  
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Astoria, OR 97103

Phone 436-1177

Phone 338-3878

IW\WC8\WC8690 (7-19-91)

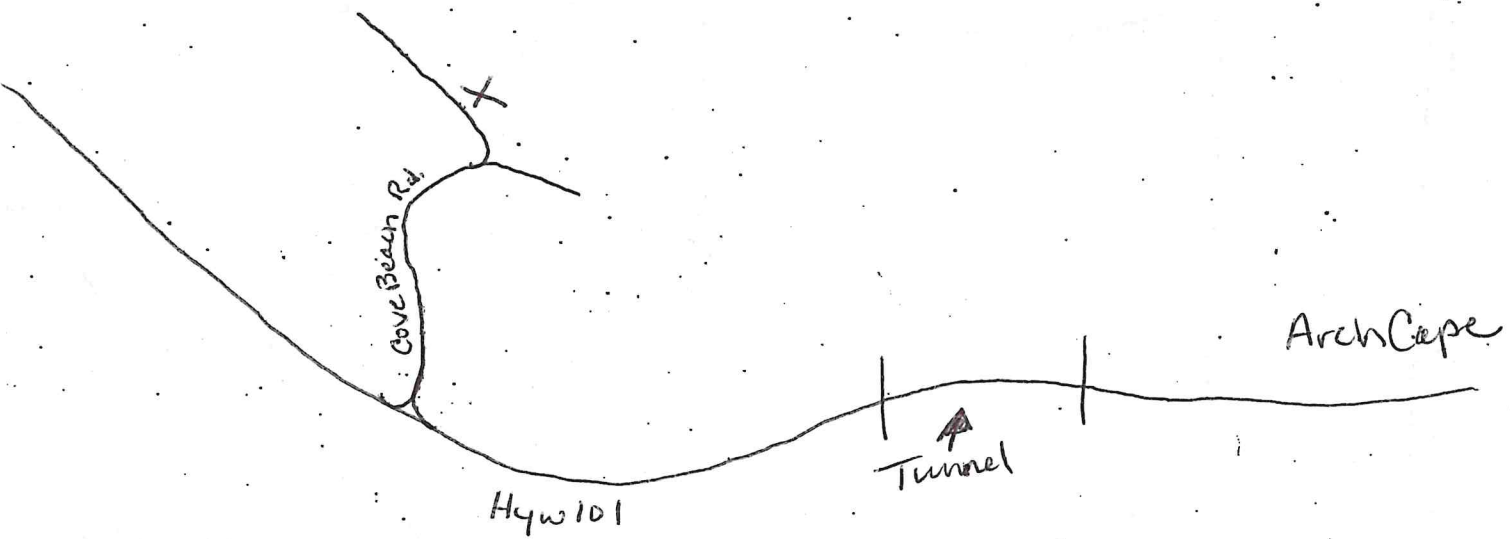
EXAMPLE A

VICINITY MAP  
Clatsop County

Please be specific with the directions to the property. If directions are unclear and the sanitarian cannot make it to the site then the processing of your application will be delayed.

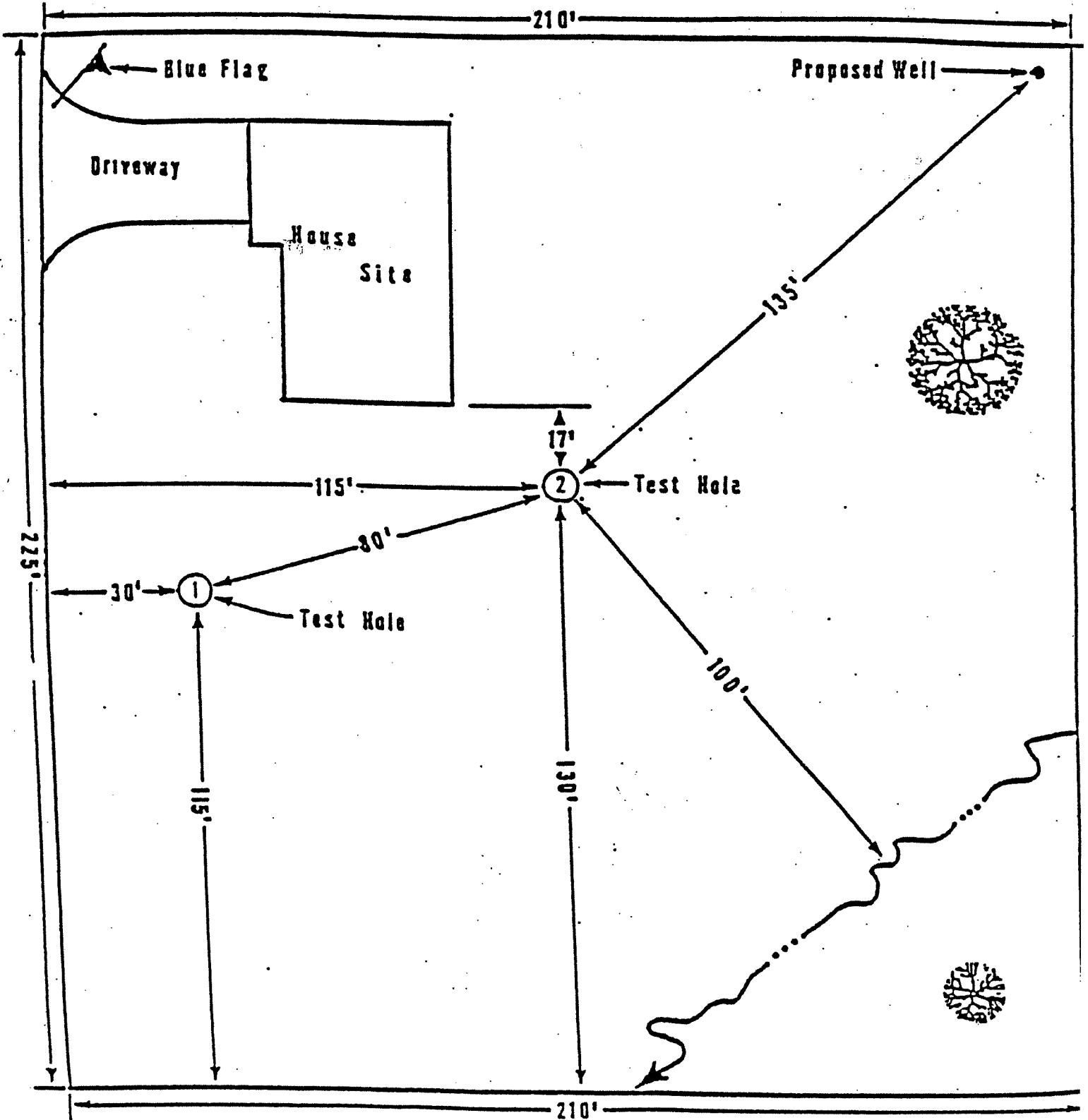
Use a city or community on a major Highway as the starting point (Elsie, Knappa, Arch Cape, Jewell, Warrenton, etc.) (Hwy. 26, 30, 53, 101, 102, 102, 202). Give as exact distances as possible (i.e. 1.5 miles, 2.2 miles., etc). Give any landmarks that may help locate the site. Directional indicators (N,S,E,W) are also helpful. Thank you.

WARRENTON  
NORTH COAST BRANCH OFFICE  
JUN 14 2004  
RECEIVED  
DEPT. OF ENVIRONMENTAL QUALITY





# PRELIMINARY SITE DEVELOPMENT PLAN

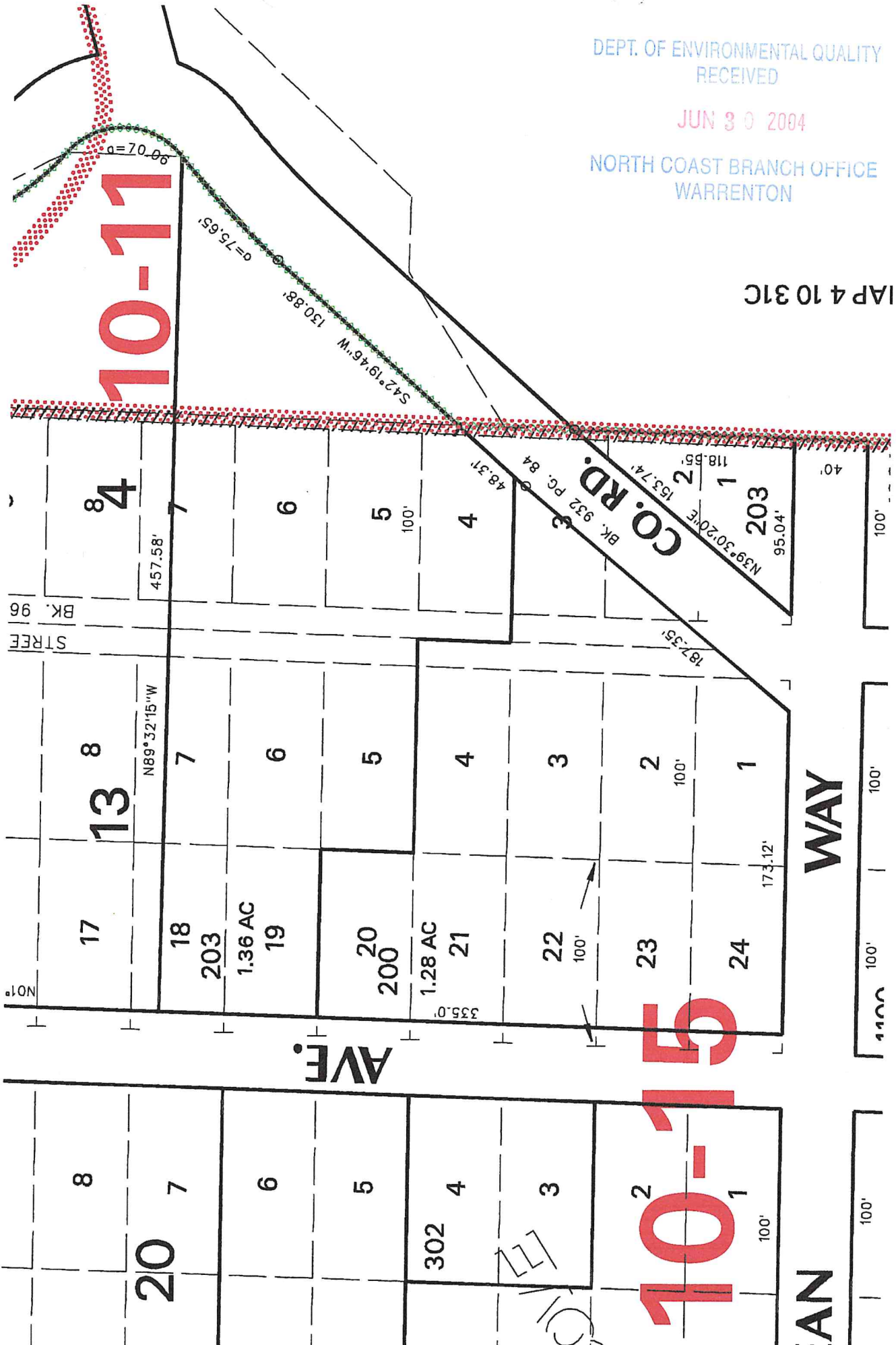


DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED

JUN 30 2004

NORTH COAST BRANCH OFFICE  
WARRENTON

IAP 4 10 31C



T4N R10W SEC 31CB WM  
CLATSOP COUNTY

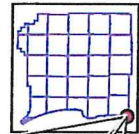
Scale 1:1200



Canceled Account

- 100
- 101
- 102
- 201

DEPT. OF ENVIRONMENTAL QUALITY  
RECEIVED  
JUN 30 2004  
NORTH COAST BRANCH OFFICE  
WARRENTON



June 04, 2004

4.10.31CB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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This map was produced for issuance by the Clatsop County Assessor's Office. It is not intended to be used for any other purpose. It is subject to the provisions of the Clatsop County Assessor's Office. It is not intended to be used for any other purpose. It is subject to the provisions of the Clatsop County Assessor's Office.



SEE MAP 4 10 31C

SEE MAP 4 10 31BC

SEE MAP 4 10 31CC

SEE MAP 4 10 31D

PACIFIC OCEAN