Bergeson-Boese & Associates
Hydro-Geotechnical Research

2560 Frontier Drive
Eugene, Oregon 97401

(503) 484-9484
Fax (503) 484-4188

June 5, 1991

Gil Hargraves
Department of Environmental Quality
Underground Storage Tank Program
750 Front Street NE, Suite 120
Salem, Oregon 97310

RE: INITIAL SITE CHARACTERIZATION REPORT
UST PERMANENT DECOMMISSIONING

FOR: FORMER SERVICE STATION
40TH AND DONALD
EUGENE, OREGON

Dear Mr. Hargraves:

Please find enclosed an Initial Site Characterization Report for the above referenced site. This report has been submitted on behalf of the responsible party, Richard McCool.

Should you have any question concerning the information contained in this report, please feel free to contact me.

Sincerely,

Bergeson-Boese & Associates, Inc.

Randall J. Boese, GIT
Project Manager/Hydrogeologist

cc: Richard McCool

Enclosure: Initial Site Characterization Report

INITIAL SITE CHARACTERIZATION REPORT
(45-Day Report)

Former Service Station
4010 Donald Street
Eugene, Oregon 97405

Report Prepared for:

Richard McCool
1504 Barber Drive
Eugene, Oregon 97405

Report Prepared by:

Bergeson-Boese & Associates, Inc.
2560 Frontier Drive
Eugene, Oregon 97401
(503) 484-9484

June 5, 1991

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EXECUTIVE SUMMARY

The project site is located in the south Eugene at the intersection of 40th and Donald Streets (See Figure 1). The site formerly operated as a gasoline service station and later as a convenience market. The site currently is unoccupied.

In October 1981, product dispensers were removed and the underground storage tanks (USTs) at the site, consisting of two 4,000-gallon, one 6,000-gallon, and one 8,000 gallon, were decommissioned in place by filling with pea gravel.

In March of 1991, Bergeson-Boese & Associates, Inc. (BB&A), was authorized by the responsible party (Richard McCool), to collected a sample of water from the tank pit. The water sample was to be analyzed for volatile aromatic hydrocarbons to determine if groundwater beneath the site had been impacted by previous site activities specifically relating to the operation of the UST system at the site.

Laboratory analysis of the water sample collected from the tank pit indicated that tank pit water contained relatively low levels of volatile aromatic hydrocarbons (BTEX) and that groundwater had been impacted. In accordance with OAR 340-122-220, confirmation of a release was reported to the Department of Environmental Quality (DEQ) by BB&A on behalf of the responsible party.

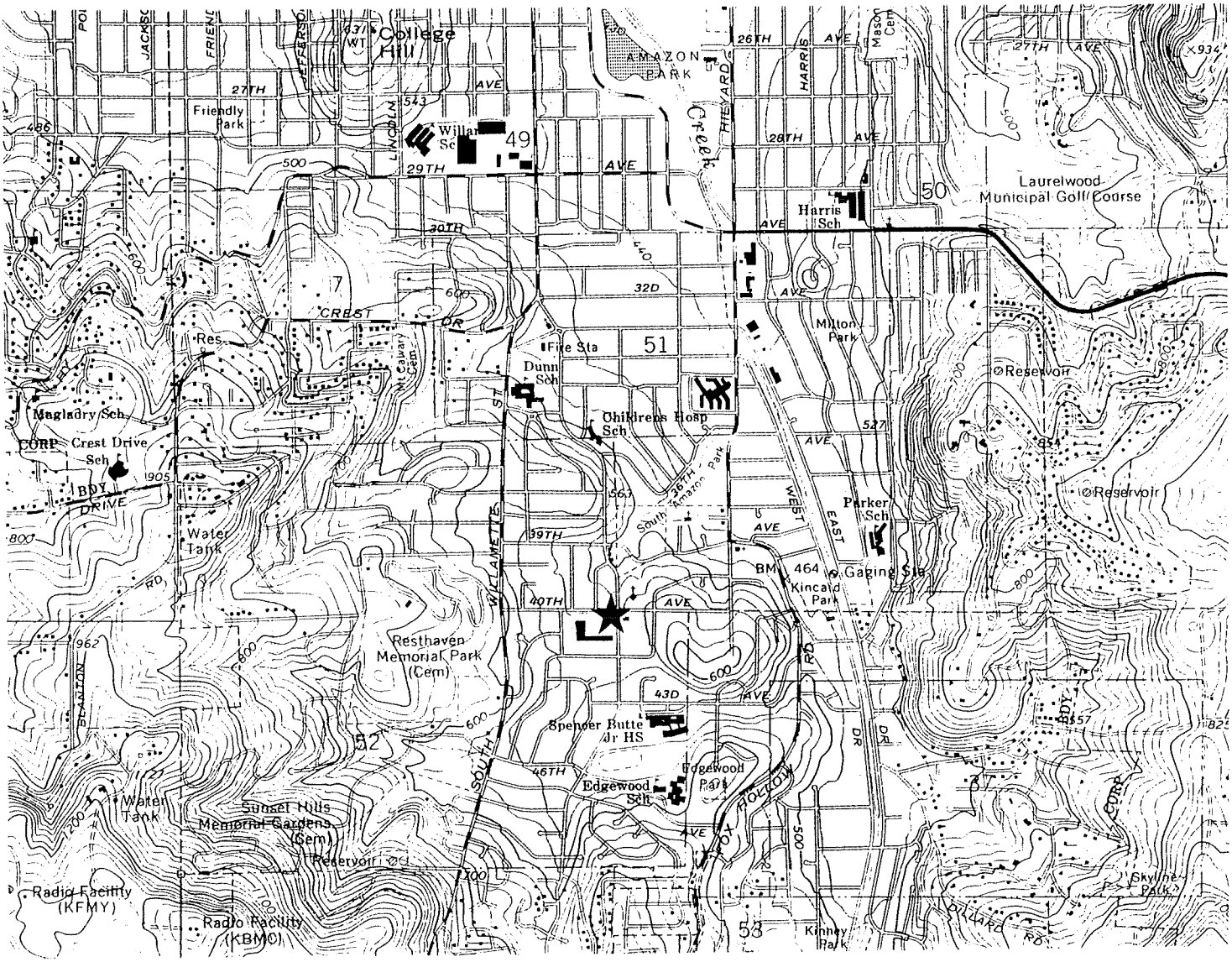
As directed by the DEQ, the responsible party retained the services of Staton Construction, Inc., to begin site cleanup. Site cleanup involved the removal of USTs previously decommissioned in-place and excavation of backfill materials in the UST excavation. Concurrently with these activities, BB&A was authorized to conduct a study that included a field investigation of subsurface conditions, groundwater sampling, and a Beneficial Use survey to determine the location and number of wells located within a half-mile radius of the site.

After the USTs and backfill materials were removed from the excavation, essentially no soil remained in the excavation to sample. The UST system was set into cavity of bedrock. This

matter was discussed with the Gill Hargraves of the DEQ and it was agreed that the most accurate manner by which to determine if the site had been cleaned up would be to obtain a sample of groundwater the entering the excavation after the tank pit had been purged. After cleanup activities were completed, an observation well was placed in the excavation and a sample of groundwater was retrieved from the well.

Laboratory analysis of the groundwater sample collected from the observation well indicated the presence of a very low concentration of benzene (1.4 ppb), below the federal drinking water standard. No other volatile aromatic hydrocarbons were detected.

Groundwater cleanup levels, or standards for petroleum hydrocarbons, are not yet finalized. The Salem office of the Department of Environmental Quality suggests remediation for sites where benzene concentration in groundwater exceeds the Federal Maximum Contaminant Level (MCL) of 5 parts per billion (ppb). The first sample of groundwater collected from the tank pit prior to site cleanup, contained a benzene concentration of 29 ppb. Other volatile aromatic hydrocarbons were also detected. The second sample, collected after cleanup activities were completed, contained only a very low concentration of benzene. Based on the absence of remaining source material (soil) in the excavation, the presence and concentration of volatile aromatic hydrocarbons in the groundwater (very low to non-detectable), and the relative risk posed by the remaining site conditions (perceived to be low), additional action as related to the release of petroleum hydrocarbons at the site does not appear warranted.



★ SITE LOCATION

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

OREGON

QUADRANGLE LOCATION

FIGURE 1

SOURCE: USGS, EUGENE EAST QUADRANGLE
7.5 MINUTE SERIES (TOPO) 1986

FORMER SHELL STATION - 4010 DONALD ST, EUGENE, OREGON

SITE LOCATION MAP

Job Code: DON-01-01

Bergeson-Boese & Associates
Hydro-Geotechnical Research
2560 Frontier Drive
Eugene, Oregon 97401
503-484-9484

Scale: AS NOTED
Design:
Drawn: RLB
Checked:
Date: 5/2/91

INTRODUCTION

General

This report presents the results of an Initial Site Characterization conducted following the removal of four previously decommissioned in-place petroleum underground storage tanks (USTs) from a former service station located at 4010 Donald Street in Eugene, Oregon. This investigation was conducted in accordance with the Oregon Department of Environmental Quality's Cleanup Rules for Leaking Petroleum UST Systems and the Numeric Soil Cleanup Levels for Motor Fuel and Heating Oil (OAR 340-122-205 through OAR 340-122-360).

Purpose and Scope

The purpose of this investigation was to:

- Determine whether a below ground release of petroleum hydrocarbons had occurred at the site.
- Sample for the presence of a release.
- Determine the nature and estimated quantity of the release.
- Remove, to the extent possible, contaminated backfill and native soil materials from the UST excavations.
- Determine the general geology and hydrogeology of the site.
- Obtain information on surrounding populations, approximate location of wells potentially affected by the release (Beneficial Use Survey), location of subsurface sewers potentially affected by the release, climatological conditions, and land use.
- Evaluate remaining site conditions to determine if additional investigation would be warranted.

The objectives listed above were accomplished by completion of the following tasks:

- Visual and instrument inspection of the native and backfill soil materials and groundwater.
- Submitting groundwater samples collected from the UST excavations for laboratory analysis.
- Performing a search of public records concerning registered wells in the vicinity of the site.

- Researching available hydrogeologic information on the region.
- Evaluating the matrix cleanup level for the site and other pertinent standards.
- Documenting all observations, conditions, and results in this report.

Our professional services have been performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental research and consulting firms, practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Site Description

The project site is located in the south hills of Eugene, approximately two miles west of Interstate 5 and two and one-half miles southwest of the Willamette River (See Figure 1). This area is urban consisting of residential buildings with occasion retail stores.

The project site currently contains a vacated convenience store building (See Figure 2). The on-site store building is part of small shopping center complex, a Safeway market being the main occupant. The Safeway market and other small businesses are located to the south and southwest of the site upslope and presumably upgradient.

The underground storage tank (UST) system at the site consisted of two 4,000-gallon, one 6,000-gallon, and one 8,000-gallon USTs used to store gasoline. The USTs were situated approximately 50 feet south of the 40th Avenue centerline and 100 feet west of Donald Street centerline. The convenience store building is located on the southwest portion of the site property (See Figure 2).

General Geography and Hydrogeology

The site and vicinity lies in the southern portion of the Willamette River basin between the Coast and Cascade Ranges in the Pacific Border physiographic province. The site lies in a valley at the north edge of the South Hills at an approximate elevation of 540 feet above mean sea level. The local topography and the project site slope north to north-northeast towards the Willamette River.

40th AVENUE EAST

POWER POLE

SIDEWALK

DRIVEWAY

DRIVEWAY

CATCH BASIN

POWER POLE

SIDEWALK

PLANTER

DRIVEWAY

UST EXCAVATION

-4 BLS

-3 BLS

FORMER PUMP ISLANDS

OBSERVATION WELL

-11.5 BLS

8000 gal.

4000 gal.

4000 gal.

6000 gal.

-10 BLS

TWO COMPARTMENT SUMP

BUILDING SITE
4010 DONALD STREET

VENT LINES

need Boring down here

surface drainage

10-50 units

FORMER PUMP ISLAND

SCALE (feet)

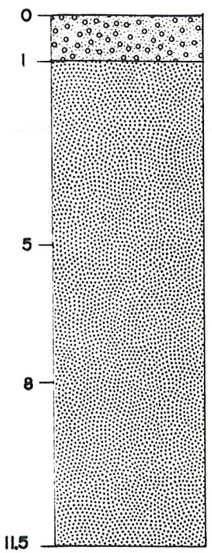
0 24 48

DONALD STREET

PLANTER

SIDEWALK

SOIL PROFILE



DEPTH IN FEET
BELOW LAND SURFACE (BLS)

FIGURE 2

FORMER SHELL STATION - 4010 DONALD STREET, EUGENE OREGON

SITE MAP

Job Code: DON-01-01

Bergeson-Boese & Associates
Hydro-Geotechnical Research
2560 Frontier Drive
Eugene, Oregon 97401
503-484-9484

Scale: AS NOTED
Design:
Drawn: RLB
Checked:
Date: 5/22/91

Groundwater beneath the site is presumed to flow in a northerly direction with the topography towards the Willamette River.

According to U.S.G.S. Water Supply Paper 2018, the site lies on the Eugene Formation. The Eugene Formation is comprised of marine-deposited sediments consisting of arkosic, micaceous sandstone with interbeds of shale and volcanic ash. The Eugene Formation is reported to yield a limited supply of water to most wells (Water Supply Paper 2018). The low water-yielding characteristics of the Eugene Formation are especially critical in the south Eugene hills west of the subject site.

SITE INVESTIGATION

Underground Storage Tank Removal and Decommissioning

According to the owner, the USTs were previously decommissioned in place by filling with pea gravel in October of 1981. However, in order to cleanup the site, the previously decommissioned USTs had to be removed.

The previously decommissioned USTs were excavated and removed on April 24 and 25, 1991, by Staton Construction, Inc. (See Appendix A for City permits). The tanks were scrapped at Sessler, Inc. located in Eugene, Oregon.

On March 27, 1991, prior to tank removal and site cleanup activities, Bergeson-Boese and Associates, Inc. (BB&A), on behalf of the responsible party, notified the Department of Environmental Quality in Salem that groundwater present in the tank pit had been impacted.

Soil Removal

During removal of the UST system from the site, approximately 200 cubic yards of backfill materials, including tank pea gravel, and weathered bedrock were removed from the UST excavation. After analytical results indicated that this material did not contain any petroleum hydrocarbons above the strictest numeric soil cleanup standard, the soil was transported to an off-site location to be used as fill. Information concerning the location and disposition of the soils can be found in Appendix B.

Water Removal

Groundwater present in the tank pit was purged and discharged into the City of Eugene's sanitary sewer system after permission was obtained from James Ollerenshaw, Laboratory Supervisor for the City of Eugene Public Works Waste Water Division (See Approval Letter in Appendix C). Approval to discharge was based on the concentrations of volatile aromatic hydrocarbons detected in a sample collected of groundwater present in the tank pit.[1]

Based on the expected size of the tank pit, an estimation was calculated as to the amount of water that would need to be removed from the tank pit to allow for complete purging. It was estimated that up to 15,000 gallons of groundwater could be present in the tank pit. Approval was given to discharge this quantity.

During the tank removal process, approximately 9,000 gallons of groundwater was estimated to have been purged from the tank pit. Based on the site geology (Eugene Formation bedrock), the water present in the UST excavation was most likely a mixture of both groundwater and surface infiltration (run-off).

UST Excavation Inspection

On April 26, 1991, following the removal of the previously decommissioned USTs, backfill materials, and approximately 9,000 gallons of water, an inspection was made of UST excavation.

Native materials exposed in the walls of the excavation consisted of a blue-gray micaceous sandstone weathered in some areas to a yellow-brown clay (See Photographs 1A and 1B in Figure 3). The blue-gray sandstone is believed to be the Eugene formation as mapped and described in U.S.G.S. Water Supply Paper 2018 and other publications. This unit extended from just beneath the surface to the bottom of the excavation at a depth of eleven feet.

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1 *Analysis of the tank pit groundwater was performed by Pacific Environmental Laboratory, Inc. of Beaverton, Oregon.*

PHOTOGRAPHS

Photograph 1A:

Blue/gray micaceous sandstone weathering to yellow clay on south wall.
[[Note - Typical section.]]

Photograph 1B:

Fractured sandstone in the northwest corner of the UST excavation. Deepest portion of excavation
[[Note - Trash pump on surface in background of photograph .]]

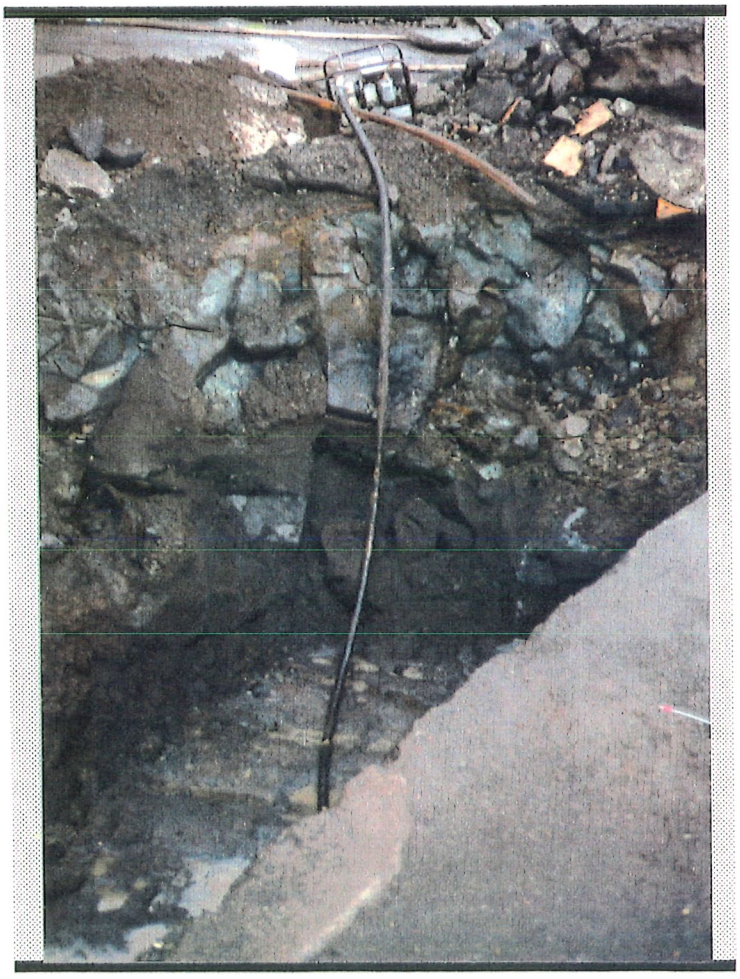

FIGURE 3

Essentially, the USTs were set in bedrock creating a "bath tub" condition in the UST excavation. As a result, water (surface or groundwater) that entered the excavation would presumably be trapped within the excavation and prevented from migrating.[2] It was difficult to ascertain whether groundwater was actually entering the excavation from the surrounding formation (sandstone bedrock) or due to on-going precipitation during the site inspection. However, close inspection of exposed sidewalls did not reveal any flowing seeps from fractures to the bedrock and it is believed that the majority, if not all of the water re-entering the excavation, was from surface infiltration. Once in the excavation, the water accumulates and rises creating an artificial static water because of the "bath tub" effect.[3]

Headspace readings were taken over native material (essentially bedrock) remaining in the UST excavation (sidewalls and floor). Measurements were taken with a Micro Tip II photoionization detector. Native material remaining in the excavation produced no readings.

Observation Well Installation

In order to facilitate future groundwater sampling, if necessary, a six inch diameter, schedule 40 PVC well screen, with 0.02 inch slots was placed in the northwest corner of the UST excavation prior to backfilling (See Appendix D for Notice of Well Construction and Well Report). The annular space around the well was filled with clean pea gravel.

SAMPLING

Soil Sampling

On April 26, 1991, the status of cleanup activities undertaken at the site to date were discussed with Gil Hargraves of the Oregon Department of Environmental Quality (DEQ) in Salem, Oregon. Mr. Hargraves was informed that the previously decommissioned USTs, backfill materials, weather bedrock, and tank pit water had been removed from the excavation and that remaining material in the excavation consisted of sandstone bedrock. Based on the site conditions, a request was made to waive typical soil sampling requirements since the

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2 *The relative permeability of the bedrock unit is believed to be low.*

3 *The static water level measured in the UST excavation observation well on May 2, 1991, was 6.5 feet below land surface.*

remaining material, bedrock, prevented sample collection. Mr. Hargraves concurred with this rationale and agreed that the most accurate method to determine if the site had been cleaned up would be to collect a sample of groundwater that re-entered the excavation. Consequently, no samples were collected of native material remaining in the excavation.

Samples were, however, collected from backfill materials in the excavation. These samples were collected by Staton Construction, Inc. to determine type and degree of contamination present in order to facilitate disposal of the soil.

Water Sampling

Water samples were collected from the UST excavation on two occasions. An initial water sample was collected by BB&A on April 26, 1991, from the excavation to determine in groundwater in the tank pit had been impacted at the site. On May 2, 1991, in accordance with OAR 340-122-340(4)(B), a second sample was collected from an observation well installed in the excavation. This sample was collected to determine if the site had been cleaned up and if site conditions warranted additional action.

ANALYTICAL RESULTS

The laboratory analysis performed on soil samples collected from the soil materials removed from the UST excavation are presented in Table 1 on the following page. Water sample analysis are presented in Table 2 (See Appendix E for Laboratory Report and Chain of Custody Forms).

Table 1. Soil Sample Results

Samples collected by Staton Construction, Inc.
Values in mg/kg or ppm
ND = Not Detected at or Above Detection Limits

Sample I.D.	TPH-HCID
1C	ND
2C	ND
3C	ND
4C	ND
5C	ND
6C	ND

Table 2. Water Sample Results

Values in ug/L or ppb
NA = Not Analyzed
ND = Not Detected at or Above Detection Limits
[1] = Federal Maximum Contaminant Levels (MCLs)
[2] = Federal Proposed Secondary Maximum Contaminant Levels (SMCLs)

Sample I.D.	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
Initial Sample of Tank Pit Water (TPH = ND)				
DON-01-H_2O	29	9.6	ND	24
Sample Collected from Observation Well (TPH = NA)				
DON-01-OB	1.4	ND	ND	ND
Reference Levels	5[1]	40[2]	30[2]	20[2]

Evaluation of Analytical Results

Laboratory results indicate that backfill materials removed from the excavation contained no detectable levels of total petroleum hydrocarbons.

The initial groundwater sample collected from the tank pit contained relatively low levels of BTEX compounds with benzene and xylene at concentrations above the federal drinking water standards. However, the sample of tank pit water collected from the excavation after purging contained only benzene at a concentration slightly above the detection limit (1.4 ppb vs. 1.0 ppb) yet below the federal drinking water standard.

Evaluation of Matrix Cleanup Level

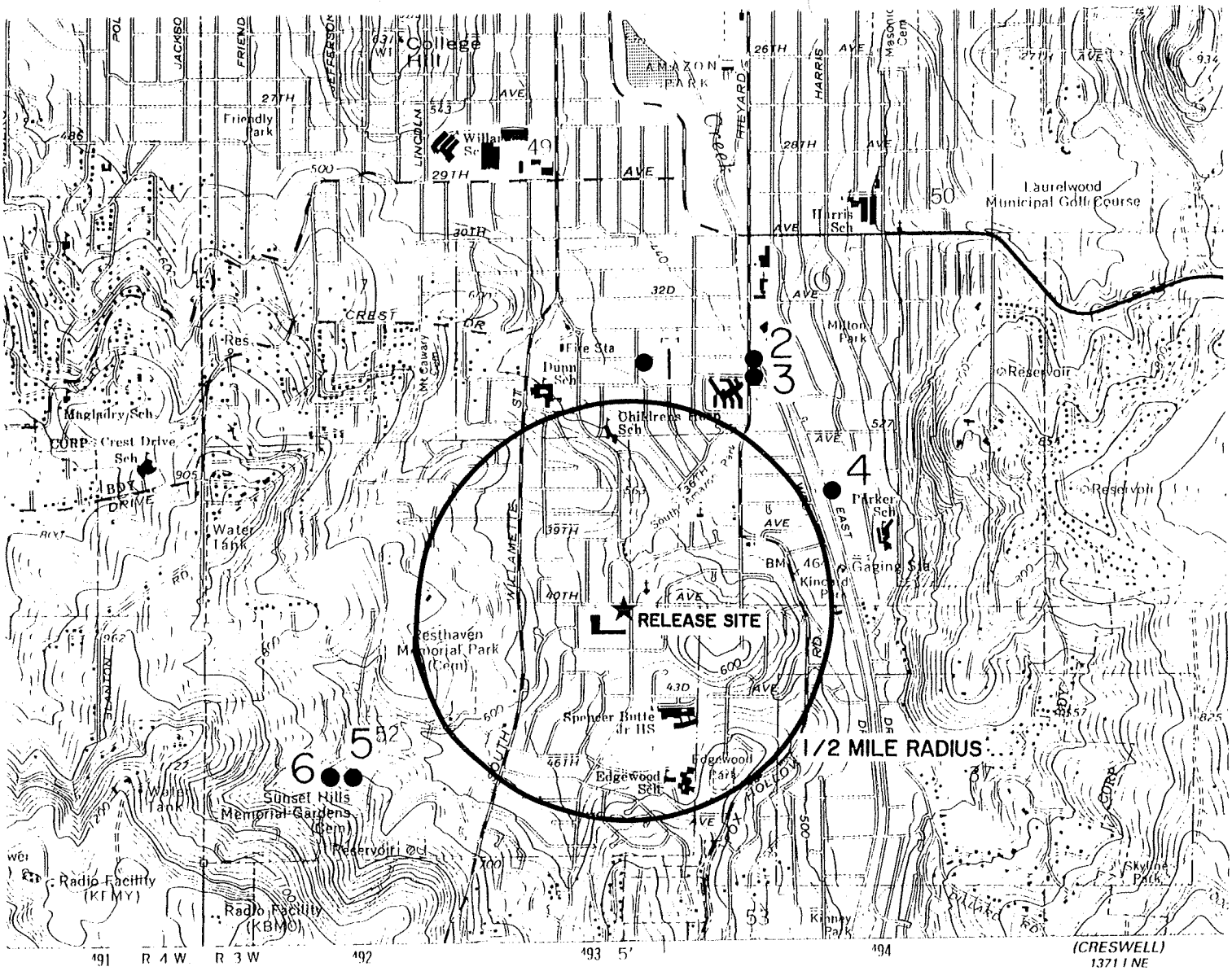
Since remaining contaminant concentrations in native soil materials (bedrock) at the site are believed to be below the strictest numeric soil cleanup standard (40 ppm TPH), an evaluation of the matrix cleanup level has not been performed.

BENEFICIAL USE SURVEY

The beneficial use survey did not reveal significant potential for risk from the release at the subject site. A review of registered wells on file with the State Water Master in Eugene, Oregon, did not identify any domestic or municipal wells within a one-half mile radius of the site. Several wells, however, were identified just outside the half-mile radius. A selection of the wells are located on Figure 4. Driller's Logs can be found in Appendix F.

The driller's description of geologic materials encountered during the installation of nearby wells are similar to those found at the site (See Appendix F). The wells range from 100 to 400 feet in depth. Brown, blue, green, and red clays and shale, along with blue sandstone are described as the predominant units to a depth of 200 feet below land surface (BLS). Below 200 feet, a gray basalt is described. Static water levels are generally 20 feet BLS. Bailer tests on the wells just outside of the one-half mile radius appears to yield low quantities of water to wells (i.e., <20 gpm).

Of the wells identified on Figure 4, two of the six wells are owned by Northwest Natural Gas Company and are used for grounding. The other well owners contacted do not currently use their wells for any purpose.



● WELLS IDENTIFIED IN BENEFICIAL USE SURVEY

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

OREGON
QUADRANGLE LOCATION

SOURCE: USGS, EUGENE EAST QUADRANGLE
7.5 MINUTE SERIES (TOPO) 1986

FIGURE 4

FORMER SHELL STATION - 4010 DONALD STREET, EUGENE OREGON

BENEFICIAL USE SURVEY

Job Code: DON-01-01

Bergeson-Boese & Associates
Hydro-Geotechnical Research
2560 Frontier Drive
Eugene, Oregon 97401
503-484-9484

Scale: AS NOTED
Design:
Drawn: RLB
Checked:
Date: 5/22/91

CONCLUSIONS

The findings of this investigation support the following conclusions:

1. A below-ground release, consisting of volatile aromatic hydrocarbons (BTEX), has apparently occurred from the operation of the UST systems at the site.
2. Two 4,000-gallon, one 6,000-gallon, and one 8,000-gallon underground storage tanks have been decommissioned in an approved manner. Soil removed from the excavation was determined not to contain any detectable petroleum hydrocarbons and has been disposed of at an off-site location.
3. Remaining material in the UST excavation at the site consists essentially of bedrock. Headspace readings taken over this material after backfill materials had been removed from the excavation produced no readings.
4. Site geology suggests that the UST excavation is essentially a "bath tub," and that any water entering the excavation either by groundwater or surface water infiltration, would essentially remain in the excavation due to the low permeability of the sandstone bedrock formation.
5. An initial groundwater sample collected from the tank pit contained measurable levels of BTEX compounds. A subsequent groundwater sample, collected from an observation well installed in the UST excavation after the excavation was purged contained only a very low concentration of benzene slightly above the detection limit but below the federal drinking water standard (5 ppb).
6. No wells are located within a half-mile radius of the site. Risk posed by the remaining conditions at the site appears to be low.

RECOMMENDATIONS

Based on analytical results that indicate groundwater present in the tank pit after purging contained only a very low level of benzene below the federal drinking water standard, the apparent low impermeability of the sandstone bedrock formation beneath the site, and the low risk posed by remaining site conditions, no further action at the site appears warranted.

If you have any questions concerning the information contained in this report, please do not hesitate to contact us.

Sincerely,

Bergeson-Boese & Associates, Inc.

Randall J. Boese, GIT
Project Manager/Hydrogeologist

APPENDIX A

City Permits

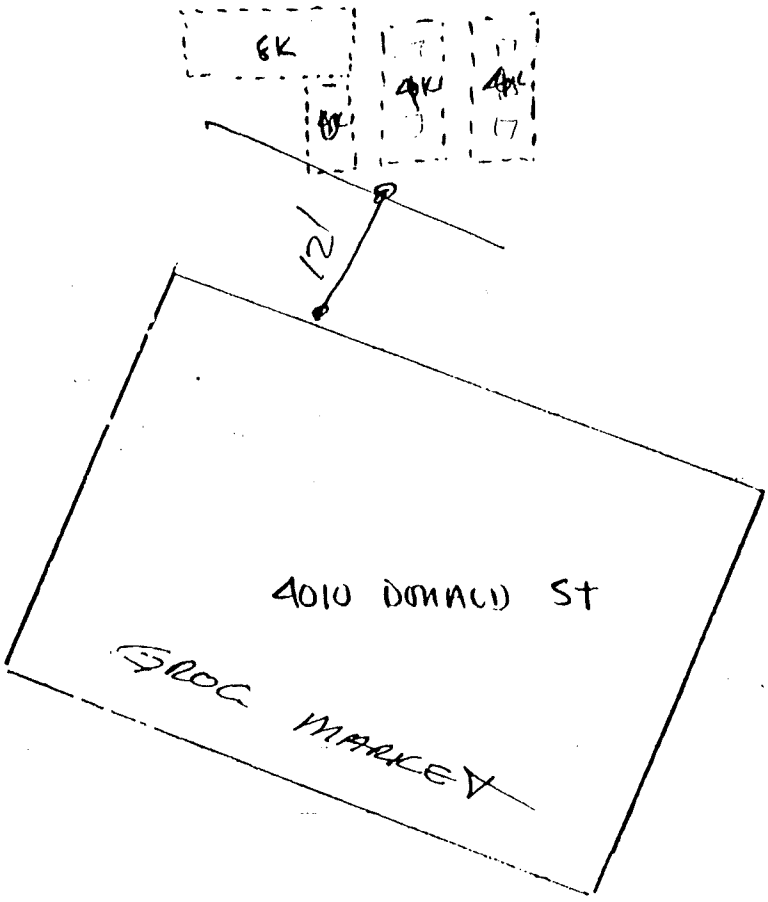
CALL ONE NUMBER
1-800-332-2344
FOR UTILITY LOCATIONS
48 HOURS BEFORE YOU DIG

VAULT 58

N

40th AVE

150'



DONALD ST

150'

owner:
RICHARD McCOOL
1509 BARBER DR.
EUGENE OR 97405
484-2153

STATON CONST: OEQ LIC. # 466 EXP. 9-91
CONT. LIC # 3371 EXP. 3-92

Fire Inspection

Planning
& Development
Building
& Permit Services

Permit # 91-01520-01

	Inspector	Date
[redacted]		
Sprinkler System		
Water Supply		
Pressure Test		
Alarm/Final		
Access Road		
Class A Hood		
Fire Suppression System		
Occupancy		
Temp Occupancy		
Fire Final		
[redacted]		
Underground Tank		
[redacted]		

687-5282 24-Hour Inspection Request Line
Fire Marshal Inspections require a 24-hr. notice

05/90

STORE

CITY OF EUGENE
PERMIT & INFORMATION CENTER

APR 11 1991

RECEIVED

91-01520-01

OCCUPANT COPY

FIRE INSPECTION

PRESENTED TO _____ DATE 4-29-91

BY _____ STATION/SHIFT FM08

EUGENE City of Eugene

Permit #F91-01520-01

A REINSPECTION WILL BE MADE ON _____ DATE TO DETERMINE COMPLIANCE.

BUSINESS / OCCUPANT NAME: Grocery Cart — TELEPHONE

NUMBER: 4010 | SUFFIX | DIR. | STREET NAME: Donald | TYPE: St. | ROOM

CONTACT PERSON — TELEPHONE

ALTERNATE PERSON — TELEPHONE

OCCUPANT #	INSP. TYPE	INSPECTION #	FREQ.	OCC. UBC	NFPA 901	PREV. FLAG
	5					

IN ACCORDANCE WITH THE CITY OF EUGENE'S FIRE PREVENTION ORDINANCES, THE FOLLOWING VIOLATION ORDERS (TYPE V) OR RECOMMENDATIONS (TYPE R) ARE SERVED.

TYPE	CODE	VIOLATION DESCRIPTION / LOCATION	DATE ABATED	INITIALS
		Removal of tanks that were previously decommissioned by filling with "I" sand		
		1 - 8,000 gal. gas U.G. Tanks		
		2 - 6,000 gal. gas U.G. Tanks		
		Follow written procedure from Public Works Wastewater Division		
		Possible Soil Contamination Samples to be taken		

PLEASE SEE REVERSE SIDE FOR CODE DEFINITIONS.

BUILDING NAME — COMPLEX

OWNER / AGENT — TELEPHONE

BLDG. UBC	BASEMENT	FIRE ESCAPES	FIRE DOORS	EXIT PROTECTION	STANDPIPE	ALARM	SPRINKLER	INSPECTOR'S TEST VALVE

TYPE	CODE	FIRE DEPARTMENT INFORMATION
		Station Construction

055/11-80

APPENDIX B

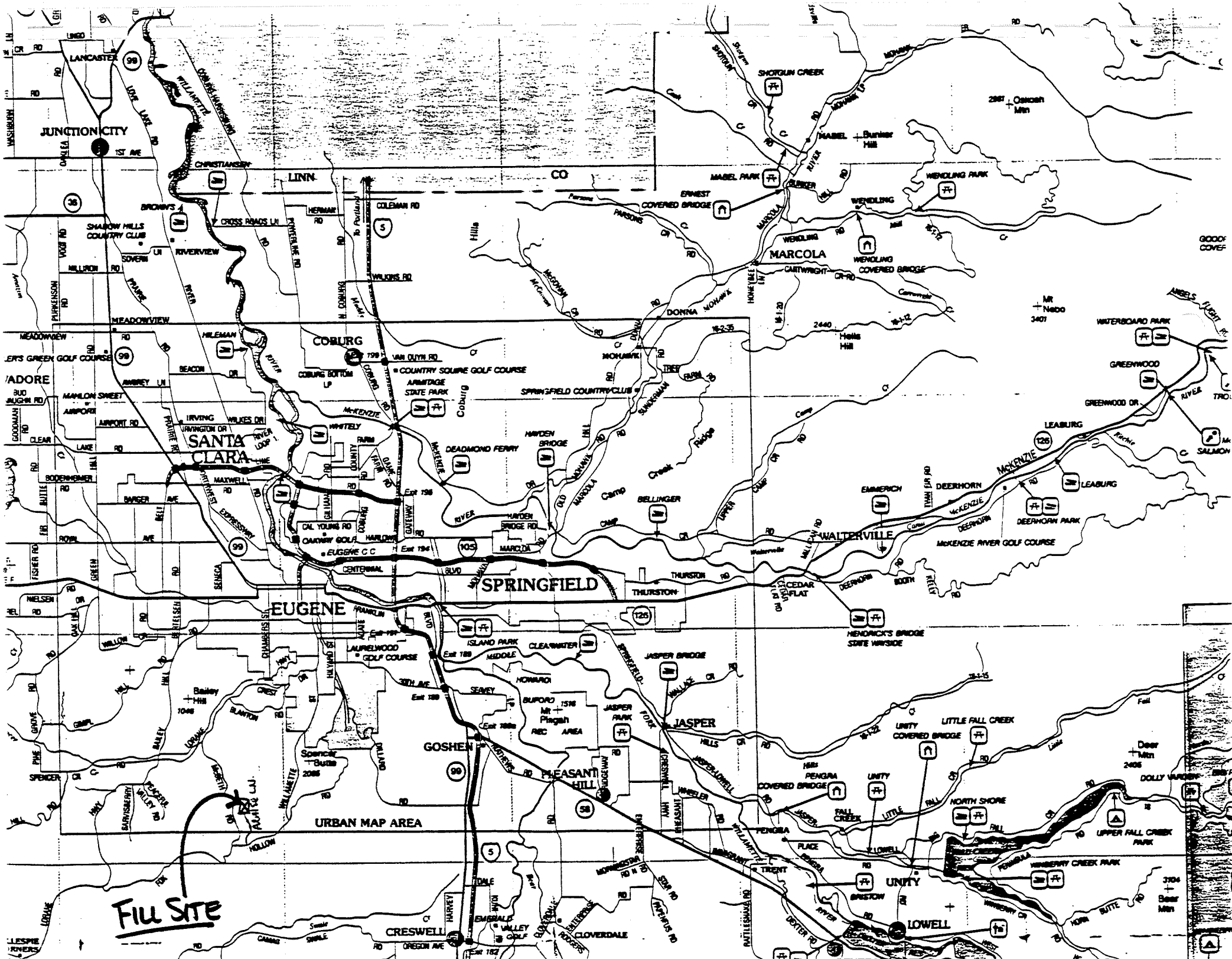
Information Concerning Disposition of Excavated

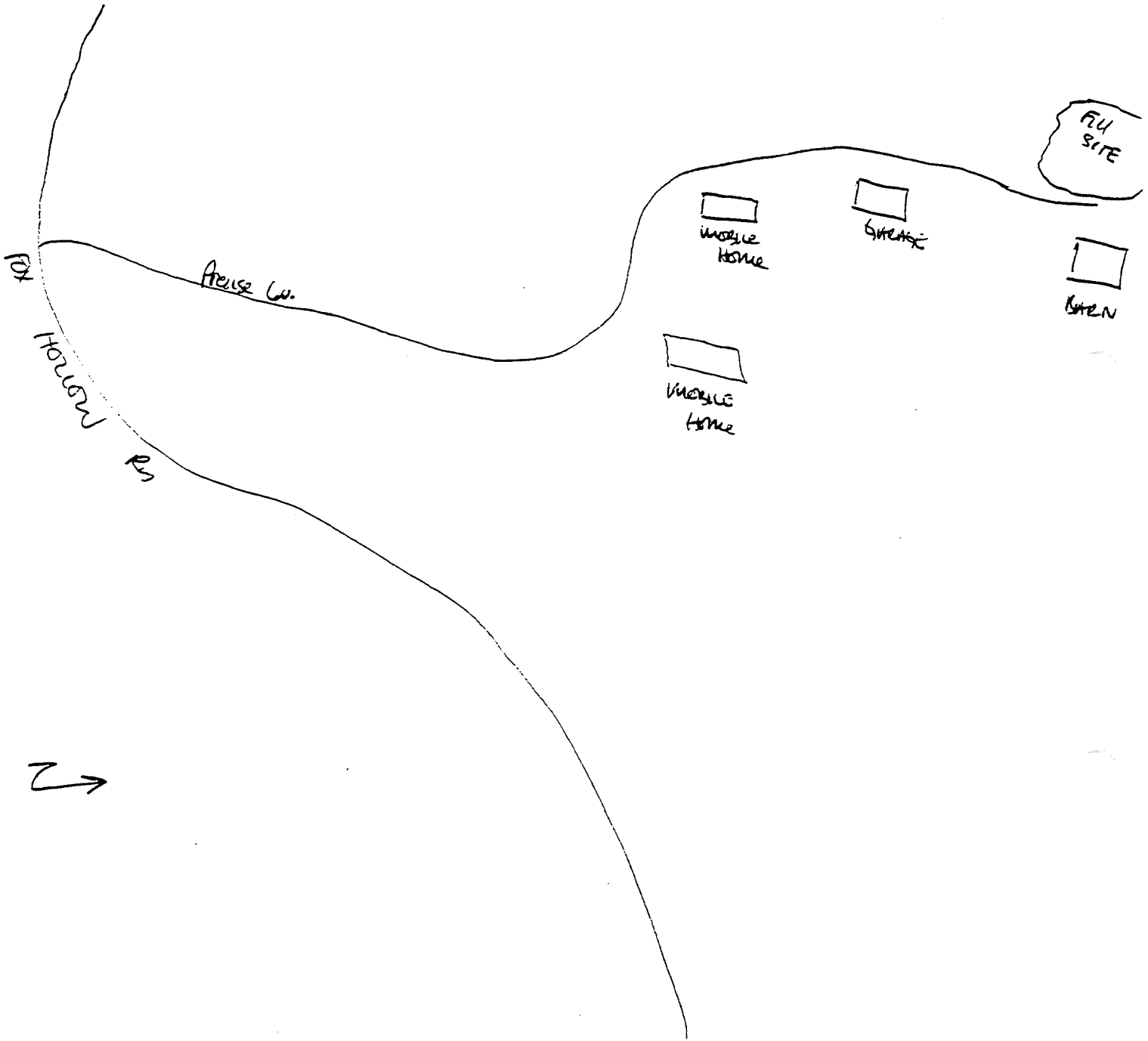
Backfill Materials

Disposition of Excavated Backfill Materials

According to the contractor, backfill materials excavated from the tank pit were taken to a private residence located on Precise Lane. There, the soil was to be used as fill. The site is located approximately five miles southwest of Eugene (See attached Maps).

No permit addendum for the soil materials has been filed since the soil contained no detectable levels of petroleum hydrocarbons.


JUNCTION CITY
LANCASTER
LINN CO
SHOTGUN CREEK
MABEL
MABEL PARK
ERNEST COVERED BRIDGE
WENDLING
WENDLING PARK
WENDLING COVERED BRIDGE
MARCOLA
DONNA
COBURG
COUNTRY SQUIRE GOLF COURSE
ARMITAGE STATE PARK
SPRINGFIELD COUNTRY CLUB
SANTA CLARA
DEADMOND FERRY
HAYDEN BRIDGE
BELLINGER
EMMERICH
DEERHORN
LEABURG
DEERHORN PARK
McKENZIE RIVER GOLF COURSE
WALTERVILLE
SPRINGFIELD
EUGENE
CEDAR FLAT
HENDRICK'S BRIDGE STATE WAYSIDE
ISLAND PARK
JASPER BRIDGE
JASPER
JASPER PARK
UNITY COVERED BRIDGE
LITTLE FALL CREEK
PENGRA COVERED BRIDGE
UNITY
NORTH SHORE
UPPER FALL CREEK PARK
WINBERRY CREEK PARK
GOSHEN
PLEASANT HILL
URBAN MAP AREA
UNITY
LOWELL
CRESWELL
CLOVERDALE
Fill Site


FU SITE
MOBILE HOME
GARAGE
KAREN
MOBILE HOME
FOX
HOLLOW
RD

APPENDIX C

Letter Approving Discharging of Tank Pit Water

into the

City of Eugene Sanitary Sewer System

Public Works
Wastewater Division

City of Eugene
410 River Avenue
Eugene, Oregon 97404
(503) 687-5236
FAX (503) 683-6814

April 23, 1991

Mr. Ronald S. Bergeson
Bergeson-Boese and Associates
2560 Frontier Drive
Eugene, OR 97401

This letter is to approve the discharge into the City of Eugene sanitary sewer system of approximately 15,000 gallons of water generated during the removal of underground tanks at 4010 Donald Street, Eugene.

The discharge is approved subject to the following conditions:

1. We have received an analytical report of a representative sample of this water, indicating the following:

Benzene	29 ug/L
Toluene	9.6 ug/L
Ethylbenzene	ND @ 5.0 ug/L
Xylenes	24 ug/L

2. Access to the sanitary sewer will be at an on site sewer clean-out.

3. No free product will be discharged to the sewer system. If free product is observed, the discharge will be stopped.

4. The City of Eugene (James Ollerenshaw, 687-5236) will be notified by 9:00 a.m. each day that a discharge will take place.

5. A written summary, including an estimate of the total volume of discharge, will be provided to the City of Eugene following the completion of the project.

6. This approval applies only for the water currently in the excavation pit, which has been sampled and analyzed. Any future discharges of wastewater from the site will require a new approval.

James Ollerenshaw, Laboratory Supervisor

Copy to: GDC

Bergeson-Boese & Associates
Hydro-Geotechnical Research

2560 Frontier Drive
Eugene, Oregon 97401

(503) 484-9484
Fax (503) 484-4188

April 19, 1991

Mr. James Ollerenshaw
City of Eugene
Waste Water Division
410 River Avenue
Eugene, OR 97404

RE: Authorization for Temporary Discharge of Contaminated Water

Dear Mr. Ollerenshaw:

As per our phone conversation yesterday, I am writing to request authorization to discharge contaminated water from an underground storage tank (UST) excavation into the city's sanitary sewer system.

The subject property is located at 4010 Donald Street. The responsible party is Richard McCool.

The project involves the removal of four (4) USTs. In order to evaluate site conditions the tank pit water must be removed.

We have estimated that the tank pit contains approximately 15,000 gallons of water. The water has been sampled for both TPH and BTEX. Sample results and chain of custody forms are enclosed.

An on-site sewer clean out will be used for hook-up into the sewer line if available.

Having received your authorization for discharge of the contaminated water, we would propose to begin the project Tuesday, April 23.

Thank you for your consideration of this request.

Sincerely,

Bergeson-Boese & Associates, Inc.

Ronald S. Bergeson

Ronald S. Bergeson, President

APPENDIX D

Notice of Well Construction (Start Card)

and

Well Report

FOR WATER RESOURCES DEPARTMENT USE ONLY

Date Postmarked _____ 26850
Date Hand-delivered _____ WRD Receipt _____
Watermaster Initials _____ Date Fee Received _____

CHECK NO. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed, signed by both the owner (or authorized agent) and constructor, and the original mailed or delivered to the Water Resources Department, 3850 Portland Road NE, Salem, OR 97310, no later than the day construction, alteration, conversion or abandonment work begins. **A $75 fee shall accompany all notices for new well construction or conversion of an existing hole not previously used as a water well** (make checks payable to the Water Resources Department). Notices meeting this requirement but received without the required fee will not be accepted as properly and timely filed. The Water Resources Commission has authority to impose civil penalties for failure to submit the required $75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

RECEIVED
MAY 3 1991
WATER RESOURCES DEPT.
SALEM, OREGON

Owner's name and mailing address Richard McCool
1504 Barker Drive
Eugene, OR 97405

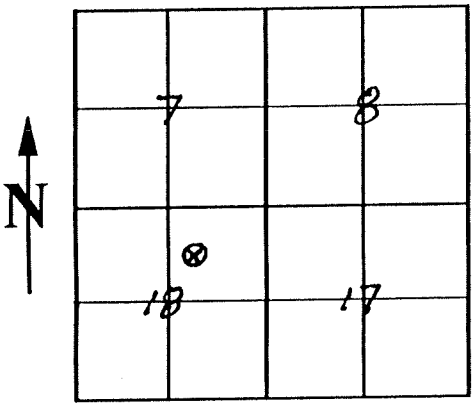
Check type of work: Fee Required { ☒ New construction ☐ Conversion } No Fee Required { ☐ Repair ☐ Deepening ☐ Recondition ☐ Abandonment }

Proposed Commencement Date 5-2-91 Existing or Proposed Well Depth 10' Diameter 6"

Check Use: ☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation ☒ Monitoring ☐ Thermal ☐ Injection ☐ Other _____

Proposed Well Location: County LANE Owner's Well Id. No. OB-1

Township T18S (N or S) Range R3W (E or W) Section 18



1. NW 1/4 of NE 1/4 of above section
2. Street address of well location 40th and Donald Eugene, OR 97405
3. Tax lot number of well location 101-004-00
4. Attach map with location identified. (See reverse of this form for approved maps)
5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form, and that to the best of our knowledge the information provided herein is accurate and the well is being properly located from septic tanks, septic drain fields and other hazards. (See #2 on back)

Owner's signature

owner — Title
5-1-91 — Date
484-2153 — Home phone
_____ — Work phone

Randall J Borne
Bonded Water Well Constructor

License No. 10138

Company Robinson-Loose & Assoc., Inc.

NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required.

THIS COPY TO WATER RESOURCES DEPARTMENT IN SALEM
If no fee applies, discard this copy

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

(START CARD) # 26850

(1) OWNER:

Well Number: —

Name Richard McCool

Address 1504 Barber Drive

City Eugene State OR Zip 97405

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable

☒ Other Dug well

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation

☐ Thermal ☐ Injection ☒ Other Monitoring

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☒ Depth of Completed Well — ft.

Explosives used Yes ☐ No ☒ Type — Amount —

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
UST Excavation	–		NOne – Surface Asphalt			

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other N/A

Backfill placed from 0 ft. to 1 ft. Material 3/4 crushed

Gravel placed from 1 ft. to 10 ft. Size of gravel pea gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6"	0	10'	–	☐	☒	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) N/A

(7) PERFORATIONS/SCREENS:

☐ Perforations Method Machine slotted

☒ Screens Type – Material SK 40 PVC

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
0	10	020	–	6	–	☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
N/A			1 hr.

Temperature of water ☒ 50° Depth Artesian Flow Found —

Was a water analysis done? ☒ Yes By whom Bergeson-Boese & Assoc.

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☒ Muddy ☐ Odor ☐ Colored ☐ Other —

Depth of strata: —

(9) LOCATION OF WELL by legal description:

County Lane Latitude 44° 30" Longitude 123° 06'

Township T18S N or S. Range R3W E or W. WM.

Section 18 NW ¼ NE ¼

Tax Lot 101-004-00 Block — Subdivision —

Street Address of Well (or nearest address) 40th & Donald

Eugene, OR 97405

(10) STATIC WATER LEVEL:

6 ft. below land surface. Date 5-6-91

Artesian pressure — lb. per square inch. Date —

(11) WATER BEARING ZONES:

Depth at which water was first found —

From	To	Estimated Flow Rate	SWL
Not clear –	May be from surface		
infiltration	into a impermeable depression		
(UST Excavation)			

(12) WELL LOG:

Ground elevation ≈ 600'

Material	From	To	SWL
Slightly weathered	0	10	
Micaceous, sandstone			
(Eugene formation)			

Date started 5-2-91 Completed 5-2-91

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number —

Signed — Date —

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 10138

Signed Kendall Boese Date 5-6-91

SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3

APPENDIX E

Laboratory Results

and

Chain of Custody Forms

Analysis of
- Drinking Water
- Waste Water
- Industrial Chemicals
- Solid Waste
- Bacteriology

Ar[illegible]tical Laboratory & Consultants
(W[illegible] Analysis & Consulting, Inc.)
304 Blair Blvd. / Eugene, OR 97402
Oregon Certified Lab #16
(503) 485-8404

RUSH

Lab Report No.: 008880
Inv. No.:
Customer P.O. No.:

TPH: TOTAL PETROLEUM HYDROCARBONS (Oregon DEQ)

Company Name: Staton Construction
Address: 29394 - B Airport Rd.
Eugene, OR 97402
Attention: Ron Richey

Location: McCool/1504 Barger
Date Collected: 5/2/91 By: Ron Richey
Date Received: 5/2/91 Time Received: 1225
Date Analyzed: 5/2/91

Samplers: ☐ Customer ☒ WACI

Open Flame Ignition Test — Does not Ignite

			Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
LAB NUMBER 008880	TPH-HCID	Gasoline		20	ND
CLIENT NUMBER 1C		Diesel and related products		50	ND
☒ SOIL/SOLID		Bunker C and related products			ND
☐ WATER			82%		
	TPH-G				
	TPH-D				
	TPH-418.1 Modified				

			Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
LAB NUMBER	TPH-HCID	Gasoline			
CLIENT NUMBER		Diesel and related products			
☐ SOIL/SOLID		Bunker C and related products			
☐ WATER					
	TPH-G				
	TPH-D				
	TPH-418.1 Modified				

			Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
LAB NUMBER	TPH-HCID	Gasoline			
CLIENT NUMBER		Diesel and related products			
☐ SOIL/SOLID		Bunker C and related products			
☐ WATER					
	TPH-G				
	TPH-D				
	TPH-418.1 Modified				

Analyst: Rory E. [illegible] Date: 5/2/91

*N.D. means "not detected"

Analysis of
- Drinking Water
- Waste Water
- Industrial Chemicals
- Solid Waste
- Bacteriology

Analytical Laboratory & Consultants
(Wa[illegible]alysis & Consulting, Inc.)
304 [illegible] Blvd. / Eugene, OR 97402
Oregon Certified Lab #16
(503) 485-8404

RUSH

Lab Report No.: 008947
Inv. No.: _____
Customer P.O. No.: _____

TPH: TOTAL PETROLEUM HYDROCARBONS (Oregon DEQ)

Company Name: Staton Construction, Inc.
Address: 29394 Airport Rd.
Eugene, OR 97402
Attention: Ron Richey

Location: McCoo' /1504 Barger
Date Collected: 5/3/91 By: Ron Richey
Date Received: 5/3/91 Time Received: 1450
Date Analyzed: 5/4/91

Samplers: ☐ Customer ☒ WACI

		Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
	Open Flame Ignition Test		Does not	ignite
LAB NUMBER 008947	TPH-HCID Gasoline	81%	20	ND
CLIENT NUMBER 2C	Diesel and related products	83%	50	ND
☒ SOIL/SOLID	Bunker C and related products			ND
☐ WATER				
	TPH-G			
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER	TPH-HCID Gasoline			
CLIENT NUMBER	Diesel and related products			
☐ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G			
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER	TPH-HCID Gasoline			
CLIENT NUMBER	Diesel and related products			
☐ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G			
	TPH-D			
	TPH-418.1 Modified			

Roy E. Wilcox
Analyst

Date: 5/6/91

*N.D. means "not detected"

Analysis of
- Drinking Water
- Waste Water
- Industrial Chemicals
- Solid Waste
- Bacteriology

Analytical Laboratory & Consultants
(Wa[illegible]alysis & Consulting, Inc.)
304 [illegible] Blvd. / Eugene, OR 97402
Oregon Certified Lab #16
(503) 485-8404

Lab Report No.: 009179-80
Inv. No.:
Customer P.O. No.:

TPH: TOTAL PETROLEUM HYDROCARBONS (Oregon DEQ)

Company Name: Staton Construction Company
Address: 29394 B. Airport Rd.
Eugene, OR 97402
Attention: Ron Richey

Location: 4010 Donald/McCool
Date Collected: 5/10/91 By: Ron Richie
Date Received: 5/10/91 Time Received: 1237
Date Analyzed: 5/10/91

Samplers: ☐ Customer ☒ WACI

		Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
LAB NUMBER 009179	TPH-HCID Gasoline			
CLIENT NUMBER 3C	Diesel and related products			
☒ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G	61%	10	ND
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER 009180	TPH-HCID Gasoline			
CLIENT NUMBER 4C	Diesel and related products			
☒ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G	65%	10	ND
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER	TPH-HCID Gasoline			
CLIENT NUMBER	Diesel and related products			
☐ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G			
	TPH-D			
	TPH-418.1 Modified			

Analyst: Ray E. Wheeler
Date: 5/13/91

*N.D. means "not detected"

Analysis of
- Drinking Water
- Waste Water
- Industrial Chemicals
- Solid Waste
- Bacteriology

Ana[illegible]cal Laboratory & Consultants
(Water Analysis & Consulting, Inc.)
304 Blair Blvd. / Eugene, OR 97402
Oregon Certified Lab #16
(503) 485-8404

Lab Report No.: 009283-9284

Inv. No.: _____

Customer P.O. No.: _____

TPH: TOTAL PETROLEUM HYDROCARBONS (Oregon DEQ)

Company Name: Staton Construction, Inc.

Address: 29394 B Airport Road
Eugene, OR 97402-9594

Attention: Ron Richey

Samplers: ☐ Customer ☒ WACI

Location: McCool/1504 Barber Blvd.

Date Collected: 5/10/91 By: Ron Richey

Date Received: 5/15/91 Time Received: 1205

Date Analyzed: 5/16/91

		Surrogate Recovery %	Detection Limit ppm	Sample* Concentration ppm
LAB NUMBER 009283	TPH-HCID Gasoline			
CLIENT NUMBER 6C	Diesel and related products			
☒ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G	52%	10	ND
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER 009284	TPH-HCID Gasoline			
CLIENT NUMBER 5C	Diesel and related products			
☒ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G	54%	10	ND
	TPH-D			
	TPH-418.1 Modified			
LAB NUMBER	TPH-HCID Gasoline			
CLIENT NUMBER	Diesel and related products			
☐ SOIL/SOLID	Bunker C and related products			
☐ WATER				
	TPH-G			
	TPH-D			
	TPH-418.1 Modified			

Roy E Anthone
Analyst

Date: 5/21/91

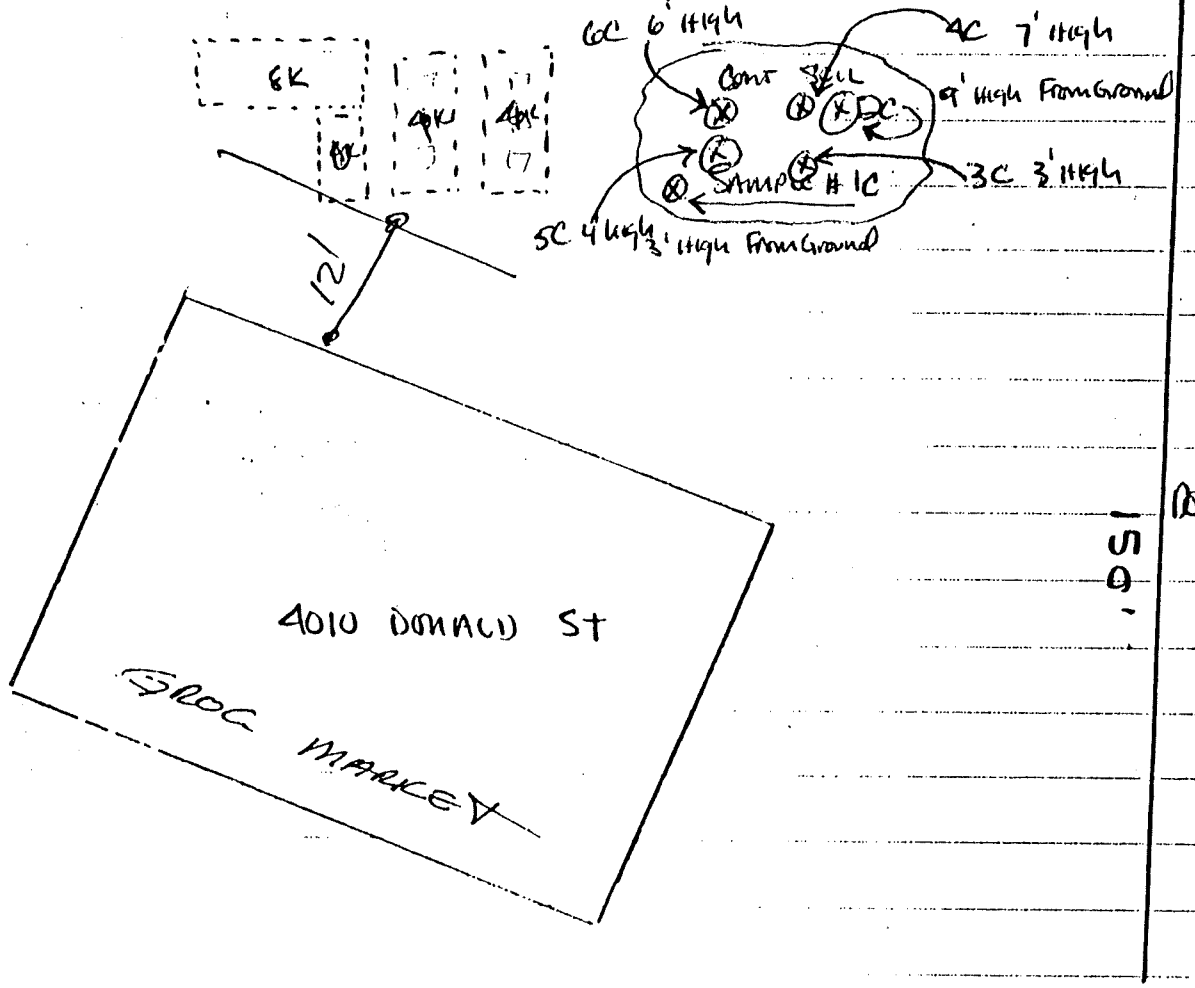
*N.D. means "not detected"

CALL ONE NU BER
1-800-332-2344
FOR UTILITY LOCATIONS
48 HOURS BEFORE YOU DIG

VINE ST

40th AVE

150'



owner:

RICHARD McCOOL
1504 BARBER DR.
EUGENE OR 97405
484-2153

STATON CONST: OEQ LIC. # 466 EXP. 9-91
CONT. LIC # 3371 EXP. 3-92

STATON CONSTRUCTION, INC.

29394-B AIRPORT RD. EUGENE, OR 97402-9594

(503) 461-0543

CHAIN OF CUSTODY RECORD

PROJECT NO:

SITE NAME: Greenway Court / Richard McCool CLIENT NAME: Richard McCool

ADDRESS: 4610 Tennyson ADDRESS: 1534 Barber

Eugene Or Eugene Or

CONTACT: PH: —— CONTACT: PH: 484-2153

SAMPLE#	DATE	TIME	SOLID OR LIQUID	REFRIGERATED	ADDITIONAL INFO
1C	5-2-91	10:11AM	Sand	NO	HCLO - TPH - FP
2C	5-3-91	2:30PM	Solid	no	HCLO - TPH - FP

SAMPLE CONDITION (REFRIGERATION, OK, ETC)

	TIME	DATE
SAMPLED BY: Ron R.	10:11AM	5-2-91
RELINQUISHED BY: Ron R.	1225	5/2/91
RECEIVED BY: Roy White	1225	5/2/91
2C RELINQUISHED BY: Ron R.	2:30PM	5/3/91
RECEIVED BY: Roy White	2:50	5/3/91
RELINQUISHED BY:		

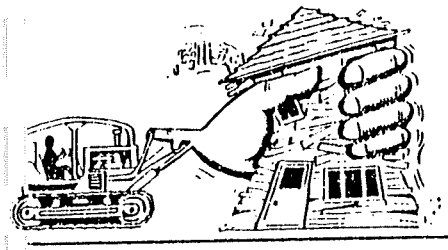
LABWORK TO BE PERFORMED: 1C HCLO FP TPH

2C HCLO FP TPH

LAB NO:

COMMENTS:

LEONARD STATON



STATON CONSTRUCTION, INC.

29394-B AIRPORT RD. EUGENE, OR 97402-9594
(503) 461-0543

CHAIN OF CUSTODY RECORD

PROJECT NO:

SITE NAME: McCool

ADDRESS: 4010 Donald

CLIENT NAME: Same

ADDRESS: Same

CONTACT: PH:

CONTACT: PH:

SAMPLE#	DATE	TIME	SOLID OR LIQUID	REFRIGERATED	ADDITIONAL INFO
3C	5-10-91	10 6 AM	Solid	Y	
4C	5-10-91	12 12 AM	Solid	Y	

SAMPLE CONDITION (REFRIGERATION, OK, ETC)

SAMPLED BY: Ron R	TIME: 6 14 PM	DATE: 5-10-91	
RELINQUISHED BY: Ron R	TIME: 12 35 PM	DATE: 5-10-91	
RECEIVED BY: Olson	TIME: 12 38	DATE: 5/10/91	
RELINQUISHED BY:	TIME:	DATE:	
RECEIVED BY:	TIME:	DATE:	
RELINQUISHED BY:	TIME:	DATE:	

LABWORK TO BE PERFORMED

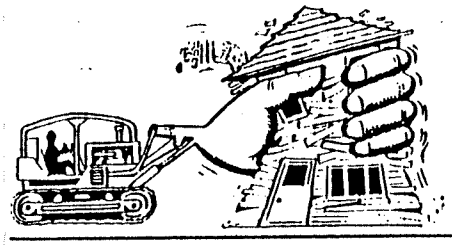
LAB NO:

3C TPH-G

4C "

COMMENTS:

LEONARD STATON



STATON CONSTRUCTION, INC.

29394-B AIRPORT RD. EUGENE, OR 97402-9594
(503) 461-0543

CHAIN OF CUSTODY RECORD

PROJECT NO:

SITE NAME: Gregory Court
ADDRESS: 4010 Donald
Eugene OR
CONTACT: PH:

CLIENT NAME: McCool
ADDRESS: 829 Barker Blvd
Eug OR
CONTACT: Dick McCool PH: 484-2153

SAMPLE#	DATE	TIME	SOLID OR LIQUID	REFRIGERATED	ADDITIONAL INFO
5C	5-10-91	4:19 pm	Solid	Yes	
6C	5-10-91	4:21 pm	Solid	Yes	

SAMPLER CONDITION (REFRIGERATION, OK, ETC): Ref.

SAMPLED BY: Ron Richey	TIME: 4:19 pm	DATE: 5-10-91	
RELINQUISHED BY: [signature]	TIME: 12:05	DATE: 5-15-91	
RECEIVED BY: Pat Williams	TIME: 1205	DATE: 5/15/91	
RELINQUISHED BY:	TIME:	DATE:	
RECEIVED BY:	TIME:	DATE:	
RELINQUISHED BY:	TIME:	DATE:	

LABWORK TO BE PERFORMED: TPH - G

LAB NO:

COMMENTS:

PACIFIC
ENVIRONMENTAL
LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

March 27, 1991

Bergeson-Boese & Associates
2560 Frontier Drive
Eugene, OR 97401

Attn: Randy Boese

Re: JOB #DON-01-01
P.O #4555
PROJECT - Donald & 40th St.
PEL #91-0841

Enclosed is the lab report for your sample which was received on March 19, 1991.

I. Sample Description

One Water Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Howard Boorse
QA/QC Manager

PACIFIC ENVIRONMENTAL LABORATORY INC.

PEL REPORT NUMBER:	91-0841
CLIENT:	Bergeson-Boese & Associates
JOB REFERENCE:	DON-01-01
P.O. NUMBER:	4555
PROJECT:	Donald & 40th St.
DATE:	March 27, 1991
ITEM:	One Water Sample

METHOD: Total Petroleum Hydrocarbons per EPA 418.1
Results in mg/L (ppm)

Sample I.D.	TPH
DON-01-H_2O	ND
Lab Blank	ND
Detection Limit	0.5

METHOD: BTEX per EPA 8020
Results in ug/L (ppb)

Sample I.D.	Benzene	Toluene	Ethyl Benzene	Xylene	Detection Limit
DON-01-H_2O	29	9.6	ND	24	5.0
Lab Blank	ND	ND	ND	ND	1.0

Bergeson-Boese & Associates

yard technical research

2560 Frontier Drive
Eugene, Oregon 97401

CHAIN OF CUSTODY RECORD

COMPANY Bergeson-Boese & Associates
PROJECT NAME Donald & 40th
LAB PROJECT NO. 91-1397
PROJECT MANAGER Randy Boese
PROJECT NUMBER DON-01-01
COLLECTED BY Robert L. Boese
P.O. NUMBER 4586
RUSH ☐ YES ☒ NO

COMMENTS

SAMPLES RECEIVED AT 4°C ☐ YES ☐ NO
SAMPLES IN APPROPRIATE CONTAINERS ☒ YES ☐ NO

PROVIDE VERBAL RESULTS ☐ YES ☐ NO
PROVIDE FAX RESULTS ☒ YES ☐ NO

PEL NO.	SAMPLE I.D.	DATE (5-2-91)	TIME	SAMPLE DESCRIPTION	MATRIX: SOIL	MATRIX: WATER	MATRIX: OTHER	NUMBER OF CONTAINERS	HALOGENATED VOLATILES 601/8010	BTEX 602/8020	VOLATILES 624/8240	HCID/FUEL SCAN GC/FID	TPH - GASOLINE	TPH - DIESEL	TPH - 418.1	SEMI-VOLATILES 625/8270	PCB's 608/8080	CHLORINATED PESTICIDES 608/8080	TCLP (8) METALS	REMARKS
	DON-01-08		3PM	H2O		✓		2		✓										

ANALYSES TO BE PERFORMED

RELINQUISHED BY	COMPANY	DATE/TIME	RECEIVED BY	COMPANY
Robert L. Boese	BB&A	5/3/91 900 AM		
RELINQUISHED BY	COMPANY	DATE/TIME	RECEIVED BY	COMPANY
			Julie Reynolds 5-6-91 1000	REL
RELINQUISHED BY	COMPANY	DATE/TIME	RECEIVED BY	COMPANY

PACIFIC
ENVIRONMENTAL
LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

May 13, 1991

Bergeson-Boese & Associates
2560 Frontier Drive
Eugene, OR 97401

Attn: Randy Boese

Re: JOB #DON-01-01
P.O. #4586
PROJECT - Donald & 40th
PEL #91-1397

Enclosed is the lab report for your sample which was received on May 6, 1991.

I. Sample Description

One Water Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Howard Boorse
QA/QC Manager

PACIFIC ENVIRONMENTAL LABORATORY INC.

PEL REPORT NUMBER: 91-1397
CLIENT: Bergeson-Boese & Associates
JOB NUMBER: DON-01-01
P.O. NUMBER: 4586
PROJECT: Donald & 40th
DATE: May 13, 1991
ITEM: One Water Sample

METHOD: BTEX per EPA 8020
Results in ug/L (ppb)

Sample I.D.	Benzene	Toluene	Ethyl Benzene	Xylene	Detection Limit
DON-01-OB	1.4	ND	ND	ND	1.0
Lab Blank	ND	ND	ND	ND	1.0

Bergeson-Boese & Associates

Hydro-Geotechnical Research
2560 Frontier Drive
Eugene, Oregon 97401

CHAIN OF CUSTODY RECORD

COMPANY Bergeson Boese & Associates
PROJECT NAME Donald & 40th St.
LAB PROJECT NO. 91-0841
PROJECT MANAGER Randy Boese
PROJECT NUMBER DON-01-01
COLLECTED BY Randy Boese
P.O. NUMBER 4555
RUSH ☐ YES ☒ NO

COMMENTS

SAMPLES RECEIVED AT 4°C ☐ YES ☐ NO
SAMPLES IN APPROPRIATE CONTAINERS ☒ YES ☐ NO

PROVIDE VERBAL RESULTS ☐ YES ☐ NO
PROVIDE FAX RESULTS ☒ YES ☐ NO

PEL NO.	SAMPLE I.D.	DATE (3-18-91)	TIME	SAMPLE DESCRIPTION	MATRIX: SOIL	MATRIX: WATER	MATRIX: OTHER	NUMBER OF CONTAINERS	HALOGENATED VOLATILES 601/8010	BTEX 602/8020	VOLATILES 624/8240	HCID/FUEL SCAN GC/FID	TPH - GASOLINE	TPH - DIESEL	TPH - 418.1	SEMI-VOLATILES 625/8270	PCB's 608/8080	CHLORINATED PESTICIDES 608/8080	TCLP (8) METALS	REMARKS
	DON-01-H2O	"	11 Pm	H2O		✓		2		✓										
	DON-01-H2O	"	11 AM	"		✓		1							✓					

RELINQUISHED BY	COMPANY	DATE/TIME	RECEIVED BY	COMPANY
Robert L. Boese	BB&A	3/18/91 2:00 pm	Kate Miller	PEL
Delivered.		3/19/91 8:40 AM		

APPENDIX F

Driller's Logs for Nearby Domestic Wells

(1)

...le Original and
...rst Copy with the
STATE ENGINEER,
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON

State Well No. 18/3W-8

State Permit No.

(1) OWNER:

Name Allan Pobanz

Address 472 W 24 E.
Eugene, Ore.

(2) LOCATION OF WELL:

County Lane Owner's number, if any—

¼ ¼ Section 8 T. 18 S R. 3 W W.M.

Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED: Threaded ☐ Welded ☐

6" Diam. from 1 ft. to 48 ft. Gage ¼ [illegible]
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS: Perforated? ☐ 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.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS: Well screen installed ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

Was a surface seal provided? ☐ Yes ☒ No To what depth? ft.

Material used in seal—

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? [illegible] Depth of strata

Method of sealing strata off [illegible]

(10) WATER LEVELS:

Static level [illegible] ft. below land surface Date

Artesian pressure lbs. per square inch Date

Log Accepted by:

[Signed] Date , 19
(Owner)

(11) 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.
" " " "
" " " "

Bailer test 20 gal./min. with 10 ft. drawdown after 2 hours.

Artesian flow g.p.m. Date

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

(12) WELL LOG: Diameter of well inches.

Depth drilled ft. Depth of completed well ft.

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
Clay	1	20
Blue sand rock	20	40
Blue sand rock	40	102

Work started 19 . Completed 19

(13) PUMP:

Manufacturer's Name

Type: H.P.

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 C. E. Goodrich & Son
(Person, firm, or corporation) (Type or print)

Address 104 [illegible]

Driller's well number

[Signed] [illegible signature]
(Well Driller)

License No. 205 Date May 24, 1961

(2)

18s/3W-8

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

PLEASE TYPE or PRINT IN INK

(for official use only)

1) OWNER:

Name Northwest Natural Gas Rec. #134

Address 220 Second Ave.

City Portland State Oregon

(2) TYPE OF WORK (check): Cathodic Protection Groundbed

New Well ☒ Deepening ☐ Reconditioning ☐ Abandonment ☐

If abandonment, describe material and procedure in Item 9.

NOT A WATER WELL

(3) TYPE OF WELL:

Rotary Air ☐ Driven ☐

Rotary Mud ☒ Dug ☐

Cable ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐

Irrigation ☐ Thermal: Withdrawal ☐ Reinjection ☐

Other: Piezometric ☐ Grounding ☒ Test ☐

(5) CASING INSTALLED:

Steel ☒ Threaded ☐ Plastic ☐ Welded ☐

10 " Diam. from 0 ft. to 20 ft. Gauge .250

" Diam. from ft. to ft. Gauge

LINER INSTALLED:

Steel ☐ Threaded ☐ Plastic ☐ Welded ☐

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Flowing flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used cement

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 14 in.

Diameter of well bore below seal 8 3/4 in.

Amount of sealing material 8 sacks ☒ pounds ☐

How was cement grout placed? Pumped

NOT A WATER WELL

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL by legal description:

County Lane ¼ ¼ of Section 8 of

Township 18S (Township is North or South), Range 3W (Range is East or West), WM.

Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address) On Hilyard St. South of E. 34th Ave.

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found ft.

Static level ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 400 ft. Depth of completed well Ø ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Fill gravel & dirt	0	2	
Brown clay	2	9	
Boulders & clay	9	11	
Broken decomposed rock & clay	11	16	
Broken rock & clay	16	30	
Broken shaly rock & clay mixed	30	160	
Broken shale & rock mixed little clay	160	200	
Grey basalt broken layers some clay soft rock layers	200	375	
Grey basalt hard broken little clay	375	400	

NOT A WATER WELL

Date work started Sept. 12, 85 /completed Sept. 17, 85

Date well drilling machine moved off of well Sept. 17, 85 19

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date , 19

(bonded) Water Well Constructor Certification:

Bond 63-0130-11384-82-1 (number) Issued by: UFS&G (Surety Company Name)

On behalf of Hansen Drilling Co.INc. Jim Hansen (type or print name of Water Well Constructor)

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

(Signed) Jim J Hansen (Water Well Constructor)

(Dated) Sept. 23, 1985

SP 40800.000

(3)

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 18/31-8 F
COUNTY Lane
APPLICATION NO. ....

NG
SS: ....
ND
....

Section ....

6711 N. E. 58th Ave.
Vancouver, Wash. 98661

Phone: 694-6242
835-3370

HANSEN DRILLING CO., Inc.

LOG

Name Northwest Natural Gas Co.

~~Address~~ location 34th & Hilyard Eugene

Date Started 6-22-65 Date Finished 7-7-65

DESCRIPTION:

(a) Well Depth 400 ft. Diameter ____

(b) Depth from ground surface to water level before pumping ____ ft. Bailer tested ____ GPM

(c) Drawdown of water level is ____ feet.
(pumping level minus static water level)

(d) Casing - screen - perforation - shoe - etc.
20 feet of 10" casing..cemented

5 yards gravel

Time:
10 hours...move in, rig up
22 hours...drilling time
10 hours...anodes, coke, graphite, pole, gravel
9½ hours...rig down, clean up
65 hours...fishing
5 hours...down time, shaker pump repair

rec'd 7-26-65 [illegible]

.... H.P. ....

.... G.P.M.

.... G.P.M.

.... °F. ...., 19......

....

al Analysis .... Aquifer Test ....

Log on Ground Information

Material	Depth
dark brown clay	0- 15
clay and gravel	15- 16
blue rock	16- 28
brown clay-stone	28- 33
blue clay-stone	33-245
brown clay	245-280
rock and clay layers	280-400

(7)

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED AUG 9 1967 STATE ENGINEER SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 18/3W-17

State Permit No. .....

(1) OWNER:
Name Carl Goddard
Address 3755 E Amazon
Eugene, Oregon

(2) TYPE OF WORK (check):
New Well ☑ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☑ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☑
6" Diam. from 0 ft. to 27 ft. Gage .250
..." Diam. from ..... ft. to ..... ft. Gage .....
..." Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:
Perforated? ☐ 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.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WATER LEVEL: Completed well.
Static level 18 ft. below land surface Date 8/29/67
Artesian pressure ..... lbs. per square inch Date

(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.
" " " "
" " " "
Bailer test 7 gal./min. with 180 ft. drawdown after 1 hrs.
Artesian flow ..... g.p.m. Date
Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(10) CONSTRUCTION:
Well seal—Material used Puddled clay & cement
Depth of seal 27' ft.
Diameter of well bore to bottom of seal 10 in.
Were any loose strata cemented off? ☐ Yes ☐ No Depth .....
Was a drive shoe used? ☐ Yes ☐ No
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? ..... depth of strata .....
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel: .....

(11) LOCATION OF WELL:
County Lane Driller's well number
¼ ¼ Section 17 T. 18 R. 3W W.M.
Bearing and distance from section or subdivision corner

(12) WELL LOG:
Diameter of well below casing 6"
Depth drilled 200 ft. Depth of completed well 200 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
Topsoil	0	4	
Black clay	4	21	
Blue sandstone	21	32	
Blue, red & green shale	32	184	
Hard blue sandstone	184	200	

Work started 7/28/67 19 Completed 7/29/67 19
Date well drilling machine moved off of well 7/29/67 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Casey F. Jones (Drilling Machine Operator) Date 8/1/67, 19
Drilling Machine Operator's License No. 521

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME Casey Jones Well Drilling Co., Inc. (Person, firm or corporation) (Type or print)
Address Rt. 8 Box 635, Pleasant Hill, Oregon
[Signed] Delbert F. Jones (Water Well Contractor)
Contractor's License No. 103 Date 8/1/67, 19

(5)

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 18/3W-13G
COUNTY LANE
~~APPLICATION NO.~~ GR-2502

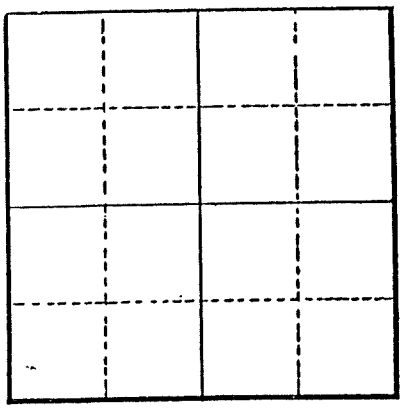
OWNER: Eugene Memorial Gardens, Inc.
MAILING ADDRESS:
CITY AND STATE: Eugene, Oregon

LOCATION OF WELL: Owner's No.

SW ¼ NE ¼ Sec. 18 T. 18 S., R. 3 W., W.M.

Bearing and distance from section or subdivision corner 1390' S. and 2080' W.

Altitude at well



Section

TYPE OF WELL: Drilled Date Constructed 1954

Depth drilled 100 Depth cased

CASING RECORD:

8-inch

FINISH:

AQUIFERS:

WATER LEVEL:
80 - 100-feet

PUMPING EQUIPMENT: Type Jet H.P. 3
Capacity 25 G.P.M.

WELL TESTS:
Drawdown Total ft. after hours Pumping 17 G.P.M.
Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. °F., 19
SOURCE OF INFORMATION GR-2359
DRILLER or DIGGER Casey Jones, Eugene, Oregon
ADDITIONAL DATA:
Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

State Printing 89316

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 18/3W-18G
COUNTY LANE
~~APPLICATION NO.~~ GR-2501

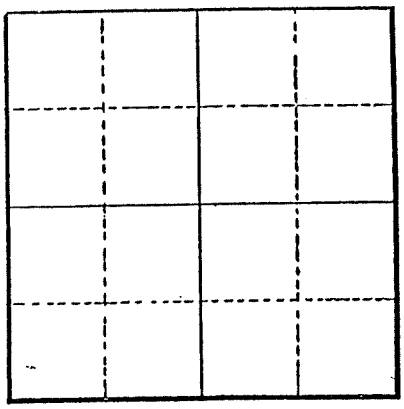
OWNER: Eugene Memorial Gardens, Inc.
MAILING ADDRESS:
CITY AND STATE: Eugene, Oregon

LOCATION OF WELL: Owner's No. #1

SW ¼ NE ¼ Sec. 18 T. 18 ~~N.~~ S., R. 3 ~~E.~~ W., W.M.

Bearing and distance from section or subdivision corner 1500' S. & 1490' W.

Altitude at well



Section

TYPE OF WELL: Drilled Date Constructed 1953

Depth drilled 390 Depth cased

CASING RECORD:

8-inch

FINISH:

AQUIFERS:

WATER LEVEL:
80 - 100-feet

PUMPING EQUIPMENT: Type Fairbanks Morse Turbine H.P. 5
Capacity 30 G.P.M.

WELL TESTS:
Drawdown 50 ft. after hours Pumping 20 G.P.M.
Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. °F., 19
SOURCE OF INFORMATION GR-2368
DRILLER or DIGGER Casey Jones, Eugene, Oregon
ADDITIONAL DATA:
Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

State Printing 89316

1	BLANK	:
2	RPTNOTPROC	:
3	ACTIONLVL	:
4	USTID	:
5	LUSTNO	:20-91-4095
6	DATEREC	:03-27-1991
7	SITENAME	:McCool Property
8	PRIORNAME	:
9	STREET	:4010 Donald
10	CITYZIP	:Eugene, OR 97405
11	COUNTY	:Lane
12	NAMERP	:Richard McCool
13	RPTITLE	:
14	COMPANYRP	:
15	STREETRP	:1504 Barber Drive
16	CITYZIPRP	:Eugene, OR 97405
17	DECDATE	:
18	COMPLETE	:
19	PRIORITY	:64
20	STAFFASIGN	:gil
21	MATRELSD	:gasoline

VIEWëëëëëëëëëëëëëëëëëëëëëëëëëë Record : 754 ëëëëëëëëëëëëëëëëëëëë Page : 1 ëëëëëëëëëëF

Gil -

Mr. McCool said we should be in receipt of his Consultant's 45-day report. (The database does not reflect that this report is in.)

Mr. McCool also stated that he needs our final letter to proceed with sale. (As groundwater is impacted - I guess he may have to wait on that, unless the 45-day report is exceptionally conclusive.)

22	IMPACTS	:soil/grdwater
23	TYPESITE	:LUST
24	RPCOSTRECV	:SITE CHARACTER/COST RECOV
25	PRNEWRELS	:No
26	STATUS	:
27	MEMO	:
28	CONSULTANT	:
29	REPORTDATE	:
30	STAFFNAME	:Gil Hargreaves
31	STAFFTITLE	:Regional Supervisor
32	LETTERSENT	:yes
33	TYPELETTER	:45 day site characterization
34	LTRCMPDATE	:05-10-1991
35	RPTRECDATE	:
36	ENFORCMENT	:
37	AQCONTROL	:
38	SWCONTROL	:
39	WQCONTROL	:
40	ADJOWNER	:
41	ADJCOMPANY	:
42	ADJSTREET	:

VIEWëëëëëëëëëëëëëëëëëëëëëë Record : 754 ëëëëëëëëëëëëëëëëëë Page : 2 ëëëëëëëëëëF
F5View/Create/Edit Memo

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Willamette Valley Region

March 28, 1991

Richard McCool
1504 Barber Drive
Eugene, OR 97405

Re: LUST, 20-91-4095
McCool Property
4010 Donald
Eugene, OR 97405
County: Lane

Dear Mr. McCool:

On March 27th, 1991, the Department was notified of a petroleum product release from McCool Property at 4010 Donald, Eugene, OR 97405. This release is believed to be from the tanks still in place and has contaminated the groundwater at this location.

Cleanup must be done under Oregon Administrative Rules (OAR) Chapter 340, Division 122. A copy is enclosed for your use. This cleanup must initially include, but is not limited to the following:

1. Identify and mitigate fire, explosion, and vapor hazards.

2. Perform a preliminary site assessment and submit a report summarizing initial abatement steps taken. This report shall be submitted within 20 days of the release confirmation (April 18, 1991).

3. Do an initial site characterization and submit a report within 45 days of the release confirmation for review (May 10, 1991). During the development of the site characterization report you should proceed with site remediation in order to prevent further spread of contamination at the site.

BARBARA ROBERTS
Governor

750 Front St. NE
Suite 120
Salem, OR 97310
(503) 378-8240

As part of the review process, the Department will also collect DEQ oversight costs associated with inspection and review of investigation and cleanup reports. The accrual of oversight costs will commence as of the date of this letter.

Please implement immediately the steps necessary to remove free and/or dissolved products from the groundwater. Note that as specified in OAR 340-122-240(4), prior Departmental approval is not necessary for the initiation of cleanup as long as we are notified of your intent to start, and such actions are later reported in writing to the Department. Any delay in site cleanup may likely result in both increased environmental damage, and elevated cleanup costs.

If you have any questions regarding this matter, please feel free to contact me at (503) 378-8240 in Salem, Oregon.

Sincerely,

Gil Hargreaves
Regional Supervisor

LINTGRWTR.LTR
.GEH/jtc

Enc.: OAR 340-122

cc: Mike Anderson:ECD/LUST

Chris Nielson-Cerquone, TMC Environmental

LUST FORM

-INCIDENT INFORMATION-

LUST LOG NUMBER: 20-91-4095 DATE RECEIVED: 3-27-91 RECEIVED BY: L Jack

FACILITY NUMBER: _____

EMERGENCY RESP: Yes-Federal Funds Yes-State Funds (No) REGULATED TANK: Y (N) U SOURCE OF RELEASE: Y N U

SITE LOCATION: [redacted] McCool Property SOURCE OF RELEASE: _____

ADDRESS: 4010 Donald ADDRESS: _____

CITY: Eugene ZIP: 97405 CITY: _____ ZIP: _____

COUNTY: Lane PHONE: _____ COUNTY: _____ PHONE: _____

INCIDENT COMMENTS: 29 ppb benzene/groundwater Tanks decommission in place 1982

-MAIL TYPES-

REPORTED BY:
Name: Randy Boese
Address: Bergeson Boese & Assoc.
City: Eugene Zip: _____
State: Or Phone: _____

TANK OWNER:
Name: _____
Address: _____
City: _____ Zip: _____
State: _____ Phone: _____

RESPONSIBLE PARTY:
Name: Richard McCool
Address: 1504 Barber Drive
City: Eugene Zip: 97405
State: Or Phone: 484-2153

-SITE ASSESSMENT-

DATE DISCOVERED: 3-26-91 DATE INVESTIGATED: _____ INVESTIGATED BY: _____

INVESTIGATION COMPLETED: (Yes) -- RP Lead SLw/TF SLw/oTF No PRIORITY: 64

RELEASE EXISTS: (Y) N CONFIRMATION METHOD: A)Staff B)Lab:DEQ C)Lab:RP D)Lab:OTHER E)RP F)(Other)

CLEANUP NECESSARY: (Y) N DATE RELEASE STOPPED: _____ EXPOSURE ASSESSMENT: Y N

OFFSIGHT MIGRATION: Y N (U) ESTIMATED GALLONS RELEASED: _____

HOW DISCOVERED: A)Routine Monitoring B)Inventory Control C)Decommissioning (D)Site Assessment
E)Complaint F)Tank Test G)Other

MATERIAL RELEASED: 1)Unleaded Gasoline 2)Leaded Gasoline (3)Miss. Gasoline 4)Diesel
5)Fuel Oil 6)Waste Oil 7)Lubricant 8)Solvent
9)Bunker Fuel 10)Other Pet. Dist. 11)Chemical 12)Unknown

CAUSE OF RELEASE: A)Tank Leak B)Pipe Leak C)Overfill D)Surface Spill
E)Pump/Valve Leak F)Other (G)Unknown

IMPACTS:				
Soil	(Y)	N	%	?
Groundwater	(Y)	N	%	?
Surface Water	Y	(N)	%	?
Drinking Water	Y	(N)	%	?
Facility (Vapor)	Y	(N)	%	?
Facility (Free Product)	Y	(N)	%	?

gil intgrwtr. Htr.
(Letter compliance date: 5-10-91)

SITE ASSESSMENT COMMENTS: Proposing to remove Tanks

-SITE MANAGEMENT-

CLEANUP ACTIVITY: Start Date: 3-27-91 Control Date: _____ End Date: _____

CLEANUP GUIDELINE: Matrix (C.A.P.) Cleanup CLEANUP LEAD: (RP) SLw/TF SLw/oTF

LUST CONTRACTOR: _____
Address: _____
City: _____ Zip: _____
State: _____ Phone: _____

LUST CONTACT: Richard McCool
Address: 1504 Barber Drive
City: Eugene Zip: 97405
State: Or Phone: 97405

DISPOSAL - FREE PRODUCT Gallons: _____
Removed By: _____
Disposal Location: _____
Removal Date: _____

DISPOSAL - CUBIC YARDS: _____
Removed By: _____
Disposal Location: _____
Removal Date: _____

ENFORCEMENT ACTION: Y N COST RECOVERY INITIATED: Y N ESTIMATED COST: _____ STAFF TIME: _____

SOURCE OF COST RECOVERY: Pct. RP _____ Pct. SLw/TF _____ Pct. SLw/oTF _____

SITE MANAGEMENT COMMENTS: _____

(Version 103)

(LUST Incident Number: _____)

LUST PRIORITY RANKING WORKSHE'

Facility Name: MCCOOL PROPERTY
Location: 4010 Donald
Eugene, OR 97405

LUS' #20-91-4095

Hazard Ranking

I.	TYPE OF CONTAMINATANT	GASOLINE	(10)
II.	IMPACTS TO WATER SUPPLY	Contam potent is unkn/probable	(10)
III.	ENVIRONMENTAL IMPACTS	No sensit eco or nat resource	(0)
IV.(A)	SOIL CHARACTERISTICS	Mod perm (loam sands/silt clays	(4)
IV.(B)	RAINFALL	>40 inches/year	(7)
IV.(C)	DISTANCE TO SURF WATER	100 - 500 yards	(4)
IV.(D)	DEPTH TO UPPER AQUIFER	<25 feet	(7)
V.	NUMBER OF GALLONS LOST	Unknown	(5)

Workload Prioritization

VI.	HAZARD RANK		
VII.	OTHER ENVIRON. IMPACTS	LOW	(2)
VIII.	NON-ENVIRONMENTAL FACTOR	MEDIUM	(3)
IX.	CURRENT PHASE	INT ABAT/SITE CHAR UNDWY	(1)
X.	PHASE DURATION	MEDIUM TERM 3-12 MONTHS	(2)
XI.	RECALCITRANCE	NOT A PROBLEM OR ISSUE	(0)
XII.	PRP READINESS	FULL PREP OR DEQ TASK ORDER	(3)
XIII.	DEQ COMMITTMENT	NO SIGNIF AGREE OR NEGOT OCCUR	(0)
XIV.	DEQ RESOURCES EXPENDED	MINOR <80 STAFF HOURS	(1)
XV.	DEQ RESOURCES PROJECTED	MODERATE 80-500 STAFF HOURS	(5)
XVI.	FUND ALLOCATION		

TOTAL SCORE 64

COMPLETED BY: Jay Collins:WVR

DATE: 03-28-1991