

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED	
Permit No: 05-1748	Issue Date: DEC 16 2005
CBL: 374 A030001	

Location of Construction: 194 AUBURN ST	Owner Name: BROWN C N COMPANY	Owner Address: PO BOX 200	Phone:
Business Name:	Contractor Name: Portland Pump Co.	Contractor Address: P.O. Box 1180 Mussey Rd. Ext. Scarb	Phone: 2078834317
Lessee/Buyer's Name	Phone:	Permit Type: Tanks - Commercial	Zone: R-3

Past Use: Commercial - 2 pump gas station	Proposed Use: Commercial remove an underground 1000 gal tank 2 pump GAS Station	Permit Fee: \$30.00	Cost of Work: \$2,000.00	CEO District: 5
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied See Attached	INSPECTION: Use Group: U Type: Tank NFPA	

Proposed Project Description: Remove an underground 1000 gal tank	Signature: <i>Greg Cass</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: dmartin	Date Applied For: 12/02/2005	Zoning Approval
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied
	Date: <i>12/11/05</i>	Date: <i>[Signature]</i>	Date: <i>[Signature]</i>

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

 SIGNATURE OF APPLICANT ADDRESS DATE PHONE

 RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

City of Portland, Maine - Building or Use Permit

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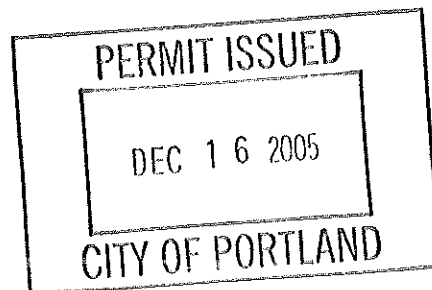
Permit No: 05-1748	Date Applied For: 12/02/2005	CBL: 374 A030001
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Location of Construction: 194 AUBURN ST	Owner Name: BROWN C N COMPANY	Owner Address: PO BOX 200	Phone:
Business Name:	Contractor Name: Portland Pump Co.	Contractor Address: P.O. Box 1180 Mussey Rd. Ext. Scarb	Phone (207) 883-4317
Lessee/Buyer's Name	Phone:	Permit Type: Tanks - Commercial	

Proposed Use: Commercial remove an underground 1000 gal tank - k-1 fuel	Proposed Project Description: Remove an underground 1000 gal tank - k-1 fuel
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 12/07/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Please note that this use is considered to be a legally nonconforming use of a gas station with two pumps.			
2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			
Dept: Building	Status: Approved	Reviewer: Tammy Munson	Approval Date: 12/15/2005
Note:			Ok to Issue: <input type="checkbox"/>
Dept: Fire	Status: Approved with Conditions	Reviewer: Cptn Greg Cass	Approval Date: 12/08/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Removal to comply with NFPA 30			

Comments:
12/7/05-mes: this is not an approval for a change of use. This gas station is legally nonconforming as to use with 2 pumps only.



Department of Environmental Protection
Bureau of Remediation and Waste Management
State House Station
Augusta, Maine 04333-0017
Attention: Tank Removal Notice
Telephone: (207) 287-2651

Expires after 6 (six) months if the
Department does not receive notice that
removal was completed.

**NOTICE OF INTENT TO ABANDON (REMOVE)
AN UNDERGROUND OIL STORAGE FACILITY**

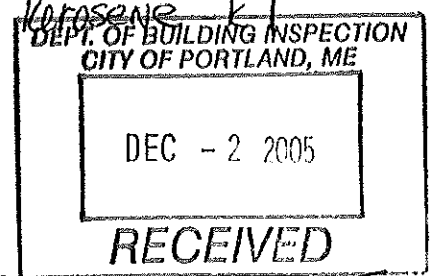
**THIS FORM MUST BE FILED WITH THE D.E.P. AND YOUR LOCAL FIRE DEPARTMENT AT
LEAST 30 DAYS PRIOR TO THE SCHEDULED REMOVAL**

PLEASE TYPE OR PRINT IN INK:

Name of Facility Owner: C.N. Brown Company
Mailing Address: P.O. Box 200 Telephone #: 207-743-9212
City: South Paris State: ME Zip Code: 04281
Contact Person (name, address & telephone #): Kevin M. Moore P.O. Box
200 South Paris, Maine 04281 207-743-9212
Name of Facility: Northgate Citgo Registration #: 9313
Facility Location (town & street): 194 Auburn Street Portland, ME

1. Identify the tanks at this location which are going to be removed:

Tank #	Tank Age	Tank Size (gallons)	Type of Product Stored
10-1	1989	1000	Kerosene k1
2			
3			



2. Directions to this facility (be specific):

194 Auburn Street Portland Maine

3. Is or was the tank(s) used to store Class I liquids (e.g., gasoline, jet fuel)? Yes No
**IF YES, REMOVAL OF THE TANK(S) MUST BE DONE UNDER THE DIRECTION OF A
CERTIFIED TANK INSTALLER.**

Tank Installer's Name:

Certification Number:

Signature

Arthur Grant

021

Arthur Grant
Kamm

4. Environmental site assessments are required for all tanks except those used for storing heating oil, not for resale, or for farm or residential motor fuel tanks under 1,100 gallons where the product is used on site. Site Assessor's Name and Address (if applicable):

Michael White New Sharon, ME

5. Name and telephone number of contractor who will do the tank removal:

Portland Pump Company

6. Expected date of removal (month/day/year): November 29, 2005 - 1st wk of Dec

I hereby provide Notice that I intend to properly abandon the underground oil storage facility as described above.

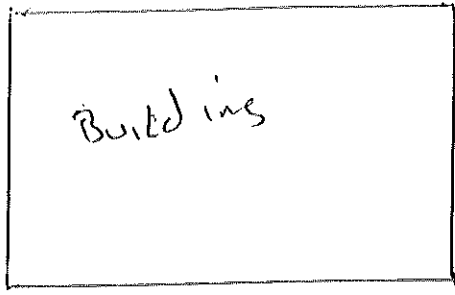
Date: October 25, 2005

Signature of owner or operator: Kevin M. Moore

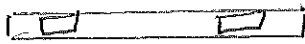
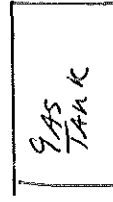
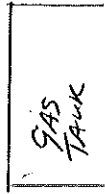
Printed Name and Title: Kevin M. Moore Maintenance Supervisor

**Mail original and yellow copy to DEP; pink copy to fire department; retain gold copy.
RETURN POSTCARD AFTER TANK(S) HAS BEEN REMOVED**

Property Line



K1 TANK



GAS PUMPS

AUBURN ST



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>194 Auburn Street Portland Maine</u>		
Total Square Footage of Proposed Structure		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: <u>C N Brown company</u>	Telephone: <u>207-743-9212</u>
Lessee/Buyer's Name (If Applicable) <u>CN Brown company</u> <u>PO Box 200</u> <u>So Paris me</u> <u>207-743-9212</u>	Applicant name, address & telephone: <u>Portland Pump Co</u> <u>9 Border Rd Scarborough me</u> <u>PO Box 1180</u> <u>207 883-4317</u>	Cost Of Work: \$ <u>2000.00</u> Fee: \$ _____ C of O Fee: \$ _____
Current Specific use: <u>Heating oil TANK K-1</u> Proposed Specific use: _____		
Project description: <u>RE MOVE 1000 gallon K-1 TANK</u>		
Contractor's name, address & telephone: <u>Portland Pump Co 9 Border Rd Scarborough me</u> Who should we contact when the permit is ready: _____ Mailing address: _____ Phone: <u>207-883-4317</u> <u>DAVE</u>		

Please submit all of the information outlined in the Commercial Application Checklist.
Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>[Signature]</u>	Date: <u>12-2-05</u>
--	----------------------

This is not a permit; you may not commence ANY work until the permit is issued.

This page contains a detailed description of the Parcel ID you selected. Press the **New Search** button at the bottom of the screen to submit a new query.

Current Owner Information

Card Number 1 of 1
Parcel ID 374 A030001
Location 194 AUBURN ST
Land Use RETAIL & PERSONAL SERVICE

Owner Address BROWN C N COMPANY
 PO BOX 200
 SOUTH PARIS ME 04281

Book/Page
Legal 374-A-30
 AUBURN ST 184-198
 18461SF

Current Assessed Valuation For Fiscal Year 2006

Land	Building	Total
\$225,110	\$115,590	\$340,700

Estimated Assessed Valuation For Fiscal Year 2007*

Land	Building	Total
\$298,800	\$138,570	\$437,370

* Value subject to change based upon review of property status as of 4/1/06.
 The tax rate will be determined by City Council in May 2006.

Building Information

Bldg #	Year Built	# Units	Bldg Sq. Ft.	Identical Units
1	1960	1	1798	1

Total Acres	Total Buildings	Sq. Ft.	Structure Type	Building Name
0.424	1798		SERVICE STATION	CITCO GAS STATION

Exterior/Interior Information

Section	Levels	Size	Use
1	01/01	1798	SERVICE STATION W/ BAYS

Height	Walls	Heating	A/C
12	BRK/CONC BLK	HW/STEAM	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE

Building Other Features

Line	Structure Type	Identical Units
1	OVERHEAD DOOR - WD/MT	2
1	CANOPY - AVG	1
1	CANOPY - ROOF/SLAB	1



BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- _____ Footing/Building Location Inspection: Prior to pouring concrete
- _____ Re-Bar Schedule Inspection: Prior to pouring concrete
- _____ Foundation Inspection: Prior to placing ANY backfill
- _____ Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

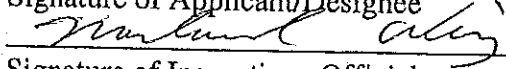
_____ If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

_____ CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED



Signature of Applicant/Designee

12/16/05
Date



Signature of Inspections Official

12/16/05
Date

CBL: 374-A-030

Building Permit #: 05-1748

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BUILDING INSPECTION

PERMIT

Permit Number: 051748

PERMIT ISSUED

DEC 16 2005

This is to certify that BROWN C N COMPANY / Portland Pump Co

has permission to Remove an underground 100 gal tank

AT 194 AUBURN ST

374 A030001

CITY OF PORTLAND

provided that the person or persons firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of this State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procured before this building or part thereof is altered or enclosed-in-4 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Craig Cass 12-8-05

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature]
12/15/05
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

371A030

**UNDERGROUND PIPING UPGRADE
SITE ASSESSMENT**

**Northgate Citgo
194 Auburn Street
Portland, Maine**

**Owner & Operator: C.N. Brown Company
P.O. Box 200
South Paris, Maine 04281**

**DEP Registration #: 9313
DEP Spill #: P-515-2002**

**Latitude: 43°42'25"N
Longitude: 70°17'27"W**

**Licensed Remover: Arthur Grant
Portland Pump Company**

Removal Date: July 25, 2002

Petroleum Contamination: Yes

Report by:

**Michael J. White, C.G.
August 20, 2002**

Michael J. White, C.G.
7 Webster Road
New Sharon, Maine 04955
Phone & Fax: (207) 778-4846

August 20, 2002

Kevin Moore
C.N. Brown Company
P.O. Box 200
South Paris, Maine 04281

**Underground Storage Piping Removal
Assessment**

Dear Kevin:

This letter serves as a summary for the underground storage tank piping removal performed at the Northgate Citgo located at 194 Auburn Street in Portland, Maine.

1. Petroleum contaminated soil was encountered during a piping upgrade at the site on July 25, 2002. The dual-wall fiberglass piping removed appeared to be in good condition with no observable holes, however, termination boots were deteriorated and would not prevent product within the secondary containment from leaking out.
2. Elevated PID concentrations greater than 10,000 ppm were discovered in shallow sand fill material overlying native marine clay in the vicinity of the dispenser pumps, primarily the north dispenser pump. DEP was notified and a Baseline-2 clean-up goal calling for recovery of free floating product and removal of accessible contaminated soil greater than 1,000 ppm was established for the site.
3. Piping and/or pump leakage appears to be the source of petroleum contamination in shallow soils at the site. Approximately 24 cubic yards (36.02 tons) of contaminated soil was removed from the site, primarily east of the north dispenser pump. Contaminated soil was transported to Commercial Paving in Scarborough, Maine for treatment. No free product was evident on the water surface, observed at approximately 3-4 feet below grade in the tank area.
4. The DEP clean-up goal was attained at the site for the most part, some contaminated soil exceeding the 1,000 ppm clean up goal remains in the vicinity of the north dispenser pump island. Soil removal was limited in this location to avoid undermining the canopy support bases and the newly installed dispenser sump.
5. Based on the level of clean-up attained at the site, the spill does not appear to pose a threat to human health. We recommend no further assessment of the underground storage tank piping removed during this investigation is necessary.

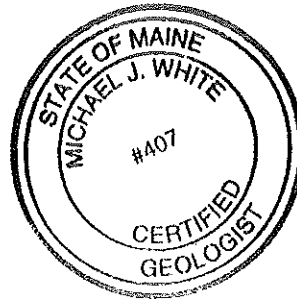
If you have any questions, please feel free to call.

Sincerely,

Michael J. White

Michael J. White

Maine Certified Geologist #407



Cc: UST Program Administrator
Steve Brezinski
City Clerk – Portland, ME

Michael J. White, C.G.

INTRODUCTION

C.N. Brown Company has owned and operated the Northgate Citgo facility since the early 1970's. The site is located 194 Auburn Street in Portland, Maine (Figure 1). The site is identified as Lot #A-30 on Portland Tax Map #374 (Figure 2). The site and surrounding area are supplied by municipal water and serviced by municipal sewer.

The site is developed with one building. Three gasoline underground storage tanks (USTs) supply product to dispenser pumps located east of the garage (Figure 3). A fourth UST containing kerosene is located along the west side of the property and supplies product to a dispenser pump along the north side of the garage.

Northgate Citgo has been the location of a service station with associated gasoline retail distribution facility since at least the 1960's. The existing UST system was installed in 1989 and replaced the following six tanks installed in 1969:

- Four 5,000-gallon USTs containing gasoline;
- A 500-gallon heating oil tank; and
- A 500-gallon waste oil tank.

According to Kevin Moore of C.N. Brown Company, DEP oversaw the removal of more than 500 cubic yards of contaminated soil from around the tank area in 1989, prior to installation of the existing system. No closure assessment was required at the time.

METHODS

The following methods/techniques were used during this investigation.

Piping Removal & Upgrade

The piping upgrade was being performed by Portland Pump Company of Scarborough, Maine. Arthur Grant was the licensed tank installer whom oversaw the removal of the old and installation of the new piping.

Soil Gas Monitoring

A MSA Passport II Photoionization Detector (PID) was used to monitor soil gas concentrations at the site. The PID was calibrated prior to use with isobutylene span gas at a concentration of 100 ppm with a response factor of 1. Soil gas measurements are reported according to DEP set points for the instrument ($\text{Conc.}_{\text{Set Point}} = \text{Conc.}_{\text{Isobutylene}} \times 2.1$).

Soil samples were collected and placed quickly into ziplock bags and allowed to equilibrate. The bags were then shaken, the tip of the PID inserted in the bag, and the peak measurement recorded.

FINDINGS

Portland Pump Company staff encountered contaminated soil under the south dispenser pump on July 25, 2002 (Figure 3). C.N. Brown Company was notified and contacted Michael J. White, C.G. to investigate. A site visit was performed the following morning. Upon arrival, Michael J. White, C.G. observed the tanks were uncovered, new dispenser sumps were installed, and a length of new piping was installed along the west side of the dispenser pumps (Figure 3). Approximately 1 cubic yard of contaminated soil was stockpiled to the east of the south dispenser pump.

Arthur Grant indicated the old piping was constructed of dual-wall fiberglass. He indicated the piping appeared to be in good condition with no observable holes. However, termination boots were deteriorated and would not prevent product within the secondary containment from leaking out.

The piping was backfilled in tan to light brown colored sand. Site soils consist of sand fill overlying native marine silt and clay of the Presumpscot Formation, gray in color. Table 1 summarizes PID measurements of 24 soil samples collected during the investigation. PID concentrations exceeding the Department of Environmental Protection (DEP) notification level of 100 ppm were detected in soil at the site and Steve Brezinski of DEP Response Services was notified. He had visited the site the day before while passing by. A Baseline-2 Clean-up goal, calling for removal of free product and remediation of accessible contaminated soil to 1,000 ppm as measured by PID, was established for the site based on the DEP Hydrocarbon Spill Decision Tree.

Approximately 24 cubic yards (36.02 tons) of contaminated soil was removed from the site, primarily east of the north dispenser pump (Figure 4), and transported to Commercial Paving in Scarborough, Maine for treatment.

Arthur Grant indicated groundwater level was approximately 3 to 4 feet below grade at the top of the USTs. No free product was evident on the water surface.

DISCUSSION

Piping and/or pump leakage appears to be the source of petroleum contamination in shallow soils in the vicinity of the dispenser pumps, primarily the north dispenser pump. Spilled product appears to have migrated through the shallow sand fill material along the surface of the underlying impermeable marine clay. We suspect this is the case because of the elevated PID concentrations (greater than 10,000 ppm) in soils less than 3 feet deep (Table 1).

The clean-up goal was attained for the most part. Contaminated soil exceeding the 1,000 ppm clean up goal remains in the vicinity of the north pump island. Soil removal was limited in this location to avoid undermining the canopy support bases and the newly installed dispenser sump. The approximate extent of contaminated soil removed during this investigation is shown on Figure 4.

Approximately 1 cubic yard of contaminated soil removed beneath the south dispenser pump appears to be the result of minor spillage during normal pump maintenance.

Water in the tank excavation is likely from recharge through the fill overlying the marine clay.

CONCLUSIONS

Based on the level of clean-up attained at the site, the spill does not appear to pose a threat to human health. We recommend no further assessment of the underground storage tank piping removed during this investigation is necessary.

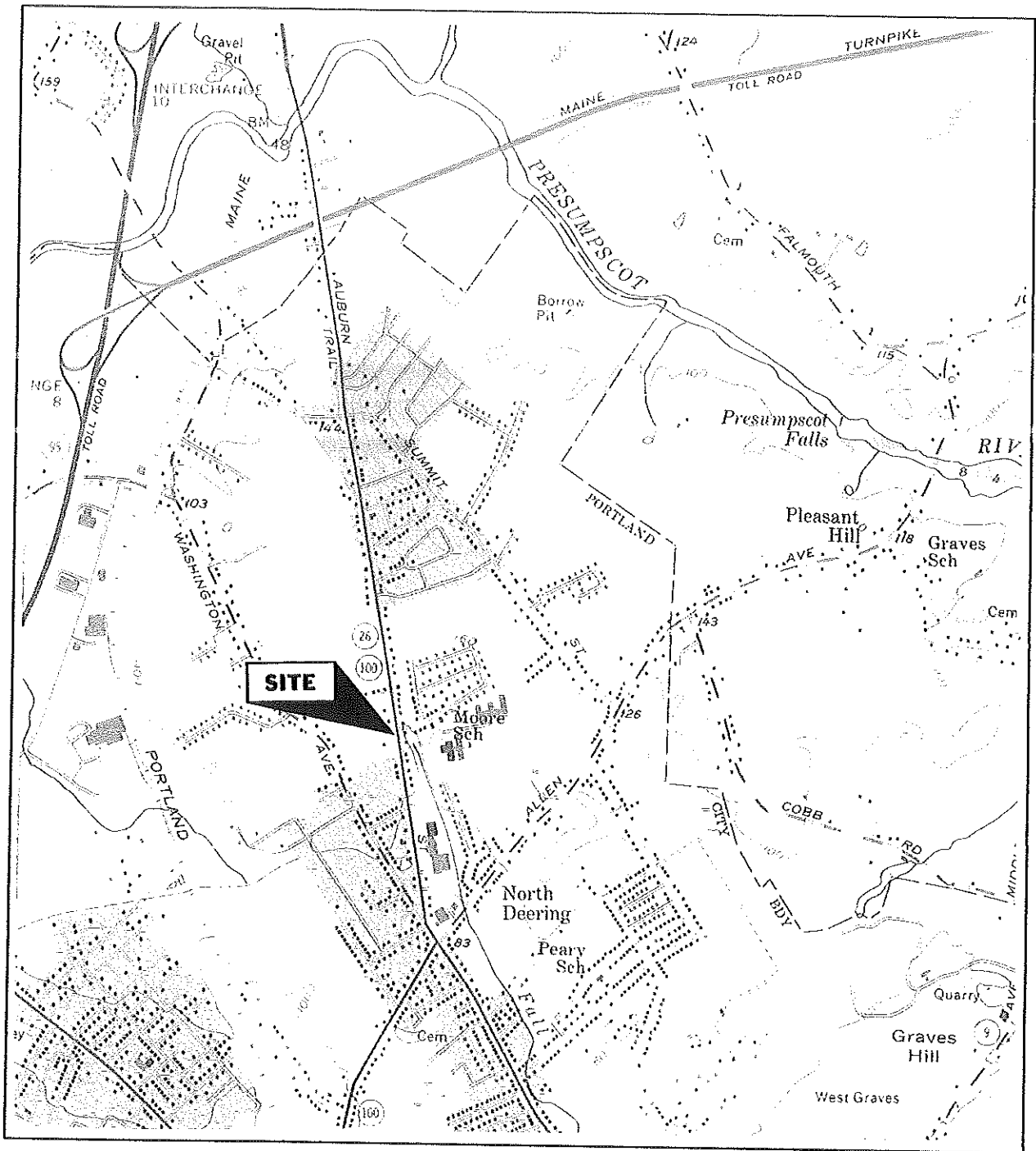
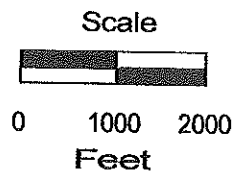


Figure 1. Site Location Map
 Northgate Citgo
 194 Auburn Street
 Portland, Maine

Source: USGS Topographic Map
 Portland West, ME
 7.5' Quadrangle
 1970



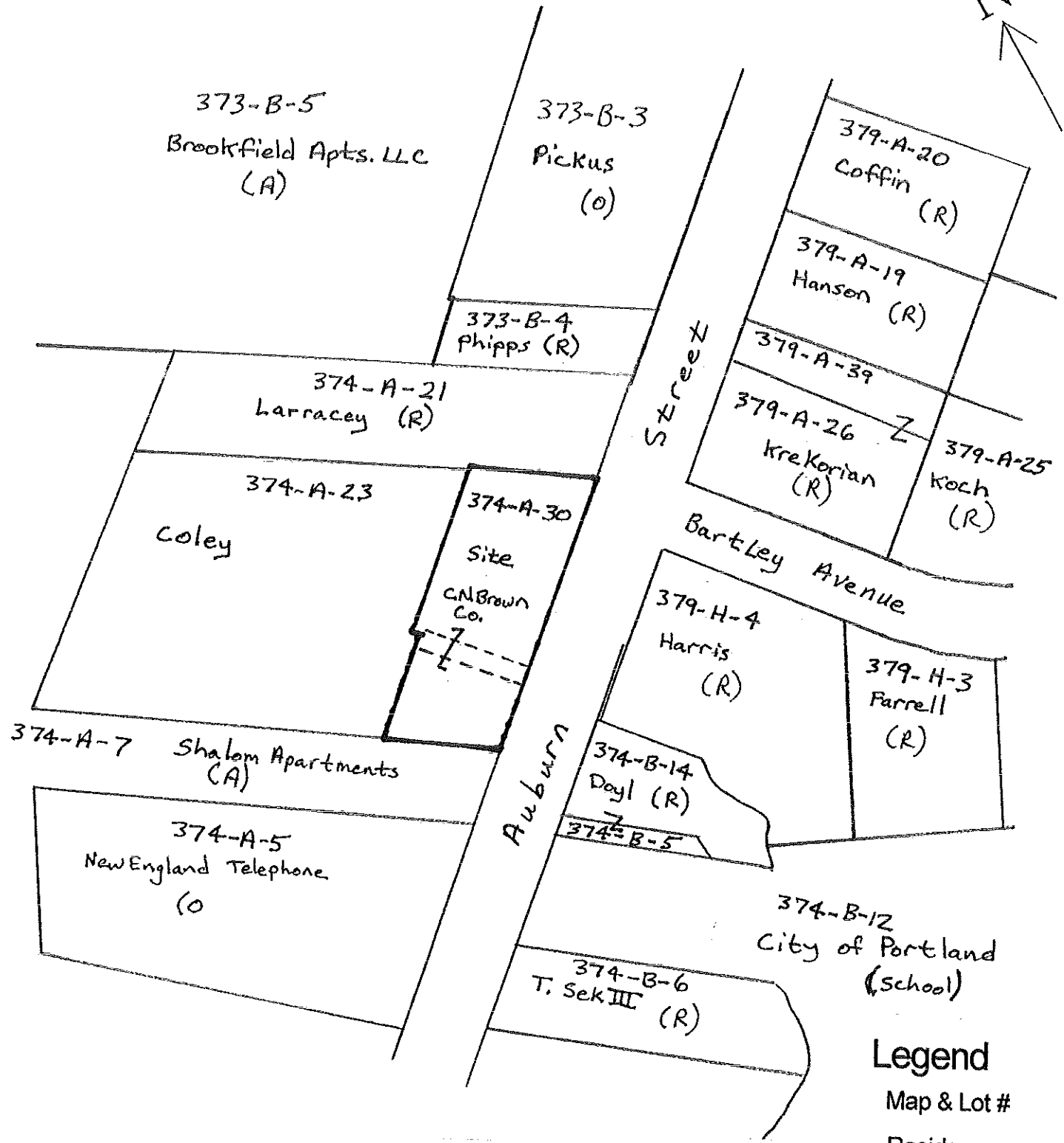
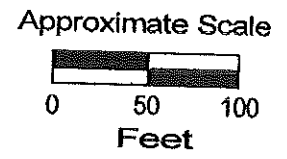
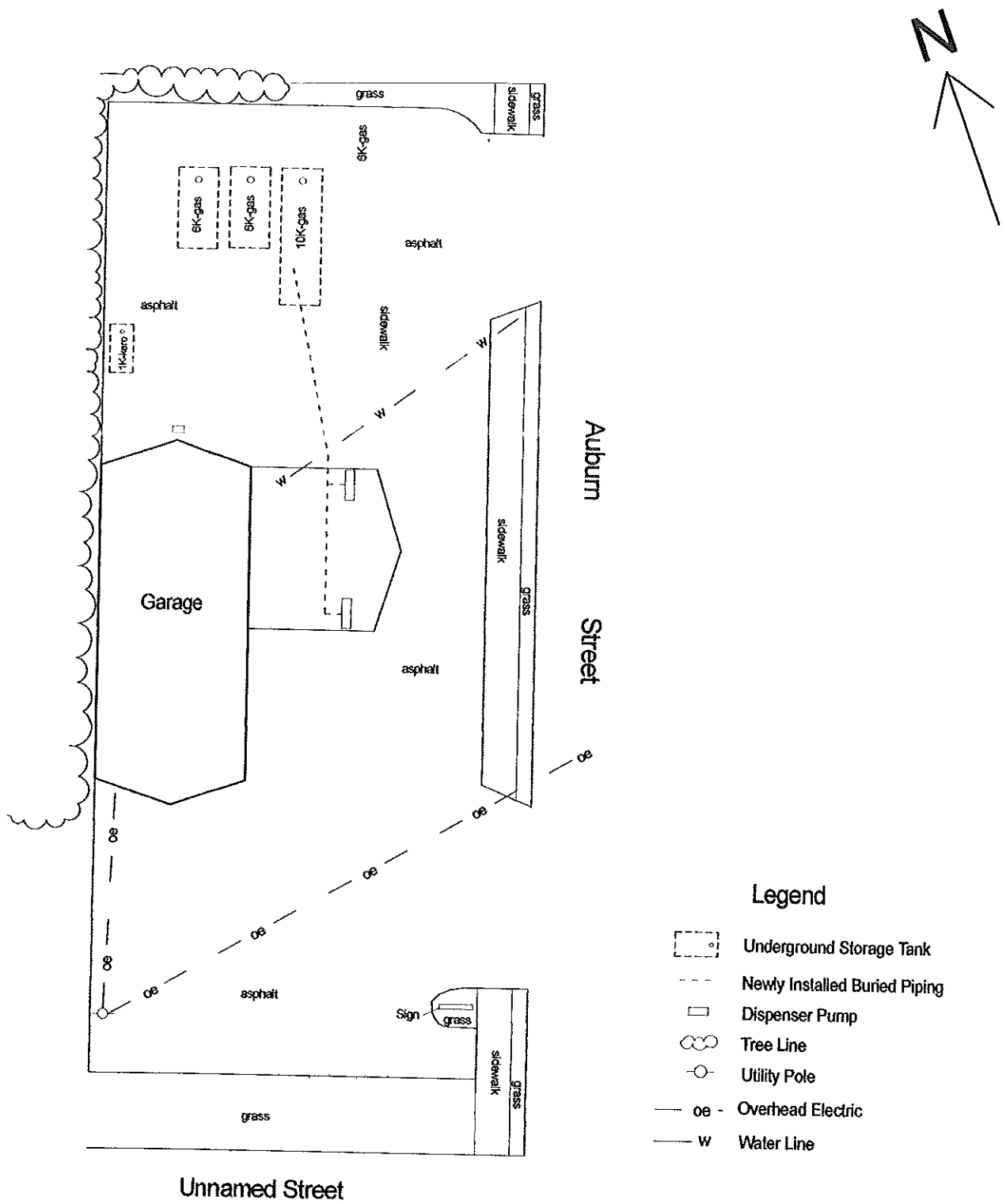


Figure 2. Portions of Tax Maps
Northgate Citgo
194 Auburn Street
Portland, Maine





Legend








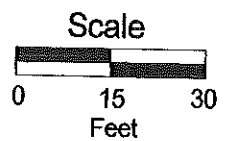
-  Underground Storage Tank
-  Newly Installed Buried Piping
-  Dispenser Pump
-  Tree Line
-  Utility Pole
-  Overhead Electric
-  Water Line

Figure 3. Site Map
Northgate Citgo
194 Auburn Street
Portland, Maine



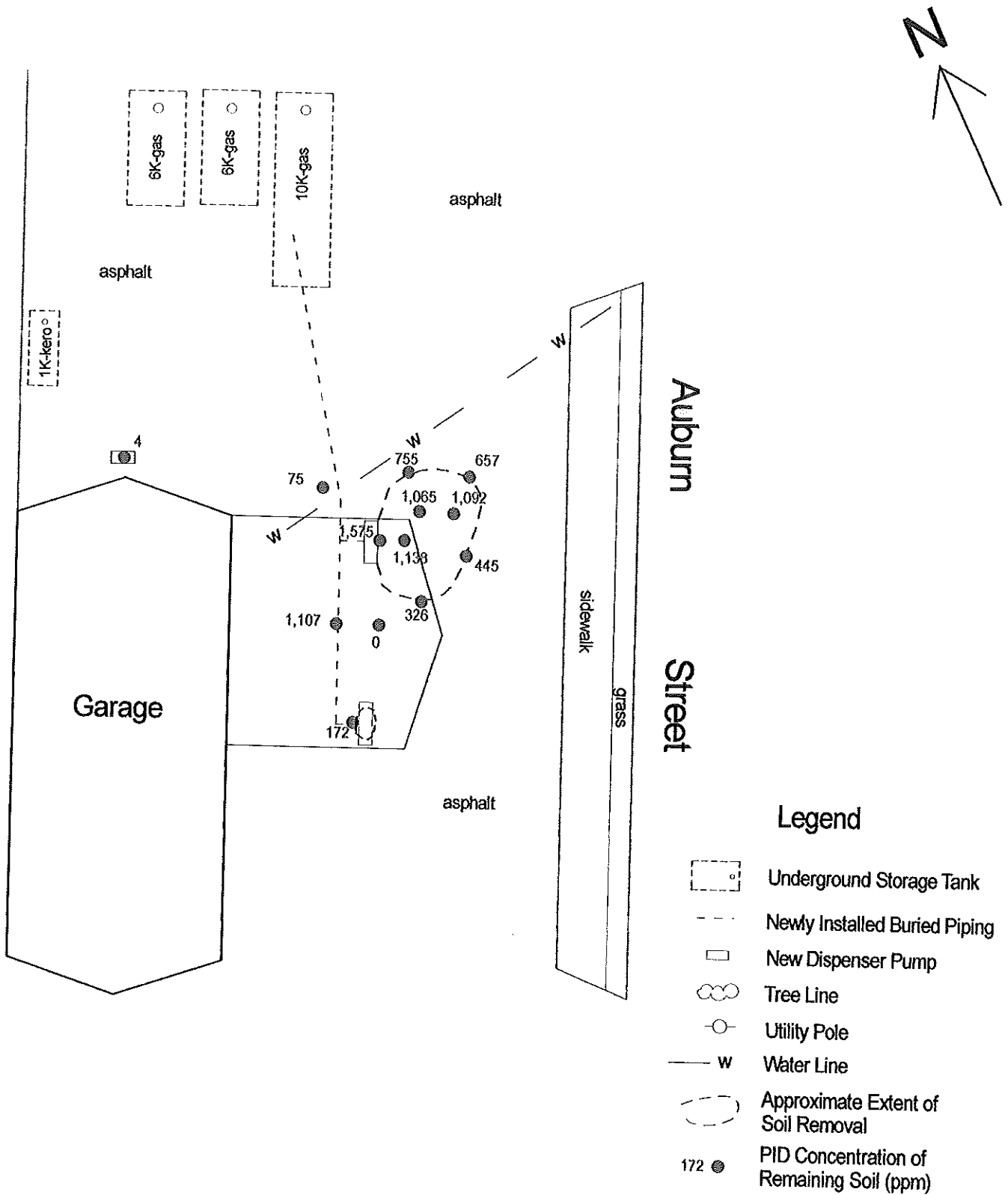


Figure 4. Extent of Contaminated Soil Removal
 Northgate Citgo
 194 Auburn Street
 Portland, Maine



CITY OF PORTLAND, MAINE
Department of Building Inspections

20 05

Received from Portland Pump

Location of Work 194 Hudson

Cost of Construction \$ 2000.00

Permit Fee \$ 39

Building (IL) Plumbing (I5) Electrical (I2) Site Plan (U2)

Other _____

CBL: 374 A 030

Check #: 1343

Total Collected \$ 39.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

Donna
WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

Table 1. Soil Gas Measurements
Northgate Citgo
194 Auburn Street
Portland, Maine

N North
S South
E East
W West
pump Dispenser pump
R Remaining Soil

* Refer to Figure 4 for selected sample locations

<u>Date</u>	<u>Sample #</u>	<u>Depth (feet)</u>	<u>PID Conc. (set point)</u>	<u>Location</u>
7/26/02	1	-	1056	Stockpiled soil next to S pump
	2	-	3465	Stockpiled soil next to S pump
	3	1-2	7077	4' W of N pump, sand
	4	1-2	12705	E side N pump, silt
	5	1-2	172	E side S pump, silt, R
	6	1	10542	3' E N pump
	7	2-3	75	7' NW of N pump, silt, R
	8	2	1107	Between pumps, W side, sand, R
	9	2.5-3	755	8-9' NNE of N pump, R
	10	1.5	18	W side S pump, silt
	11	1.5	4	Under kerosene pump, R
	12	0.5	0	Between pumps, 6' E, sand, R
	13	1	0	Under sample #12, R
	14	2.5	326	8' ESE of N pump, silt & clay, R
	15	2.5	634	5' E of N pump, silt & clay
	16	3-3.5	2398	5-6' E of N pump, fractured clay
	17	3.5	2995	4' E of N pump, fractured clay
	18	3.5-4	1065	5-6' NE of N pump, fractured clay, R
	19	2.5	1575	E side of pump, R
	20	2-2.5	1092	Sand 11' NE of pump
	21	3	1138	3' E of N pump, R
	22	3-3.5	1743	8' SW of N pump
	23	3.5-4	445	11'-12' E of N pump, R
	24	3	657	NE corner excavation, R