

Stormwater Pollution Prevention & Erosion and Sediment Control Plan for:

Owner(s):

Parallel Products located at:
20 Duchaine Boulevard
New Bedford, MA 02745

Contractor(s):

Farland Corp.
401 County Street
New Bedford, MA 02740
Phone: (508) 717-3479 Fax: (508) 717-3481

SWPPP Contact(s):

Matthew J. White
Farland Corp.
401 County Street
New Bedford, MA 02740
Phone: (508) 717-3479 Fax: (508) 717-3481

SWPPP Preparation Date:

November 2017

Estimated Project Dates:

Project Start Date: December 6, 2017
Project Completion Date: May 31, 2018

Prepared by:



ENGINEERING A BETTER TOMORROW

ENGINEERING | SITE WORK | LAND SURVEYING

1.7 Site Features and Sensitive Areas to be Protected

Description of unique features that are to be preserved:

No disturbance is permitted beyond the proposed erosion control measures to be installed prior to construction. These barriers represent the limit of work permitted within the buffer zone to the surrounding BVW.

Describe measures to protect these features:

Straw wattles with Silt Fence and/or hay bale barriers will be installed at locations shown on the plans. Dedicated construction entrances are to be utilized during construction. The existing on-site drainage system will be protected by the appropriate erosion controls throughout construction.

1.8 Potential Sources of Pollution

Potential sources of sediment to stormwater runoff:

- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscape operations

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Areas – small fueling activities, minor equipment maintenance, sanitary facilities and hazardous waste storage.
- Materials Storage Areas – general construction materials, solvents, adhesives, paving materials, paints, aggregates, trash, etc....
- Construction Activity – paving, curb/gutter installation, concrete pouring/mortar, etc...
- Concrete Washout Area (if necessary).

Aside from the above mentioned potential pollutants, there will be no treatment chemicals used for the means of reducing or treating stormwater runoff. The procedures outlined in the erosion control and natural buffers section above will sufficiently handle the stormwater runoff produced by this project, so no additional chemicals will be needed at this time. All other chemicals that may be encountered on site are listed below, and all have been chosen to be as minimally harmful as possible given the site conditions and soils.

Trade Name Material	Stormwater Pollutants	Location
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Nitrogen, phosphorous	Newly seeded areas
Cleaning solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Oil, petroleum distillates	Parking area
Concrete	Limestone, sand, pH, chromium	Curb and gutter
Glue, adhesives	Polymers, epoxies	Drainage construction
Paints	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic	Parking striping
Curing compounds	Naphtha	Curb and gutter
Hydraulic oil/fluids	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment/staging area
Diesel fuel	Petroleum, distillate, oil & grease, naphthalene, xylenes	Secondary containment/staging area
Kerosene	Coal oil, petroleum distillates	Secondary containment/staging area
Antifreeze/coolant	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Bacteria, parasites, and viruses	Staging area

1.9 Endangered Species Certification

Are endangered or threatened species and critical habitats on or near the project area?

☒ Yes ☐ No

Describe how this determination was made:

Farland Corp. has reviewed the potential for endangered or threatened species and critical

habitats by using the Fish and Wildlife Services On-line mapping tool (iPaC) located at <https://ecos.fws.gov/ipac/> (accessed on 11/28/17) to determine if any exist on or around the project site, and that they might be affected by any construction activities. It was determined that there is one (1) species of threatened wildlife that may be affected by said construction activities.

If yes, describe the species and/or critical habitat:

The species found on the above referenced database is the Northern Long-Eared Bat. This species is classified as “threatened”, and does not have a designated critical habitat.

If yes, describe or refer to documentation that determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact. (Note, if species are on or near your project site, EPA strongly recommends that the site operator work closely with the appropriate field office of the U.S. Fish and Wildlife Service or National Marine Fisheries Service. For concerns related to state or tribal listing of species, please contact a state or tribal official.)

Due to the previously developed nature of the project site and surrounding area, a visual inspection has been conducted to determine the potential presences of the species as well as any potential impacts to its natural habitat. This site inspection was performed by Matthew White of Farland Corp. on May 15, 2017. Upon the completion of the inspection no specimens of the stated threatened species were encountered, and the proposed work to take place for this project will be mostly contained to the previously developed commercial areas of the site. In addition, there will be minimal to no impact on the existing wooded areas surrounding the project site.

1.10 Historic Preservation

Are there any historic sites on or near the construction site?

☐ Yes ☒ No

Describe how this determination was made:

Farland Corp. has reviewed the Massachusetts State Register of Historic Places available from the Division of Tourism – Massachusetts Historic Sites at <http://www.mass.gov/portal/visiting-recreation/tourism/massachusetts-historic-sites.html> (accessed on 11/28/17) to determine if any historic sites are on or near the Eversource Energy site in New Bedford, Massachusetts. No historic sites were identified from this review. Additionally, Farland Corp. has contacted The City of New Bedford’s Historical Commission to verify that no historical sites or areas exist at the proposed work site. Farland Corp. described the location and nature of the work, and it was verified that there are no historic sites on or near the project area.

3



**The Commonwealth of Massachusetts
Department of Public Safety
Division of Fire Prevention and Regulation**

**APPLICATION FOR PERMIT TO MAINTAIN AN EXISTING/NEW UNDERGROUND
STORAGE FACILITY**

TO: Head of Fire Department

New Bedford
City, Town or District

April 22, 1991
Date

Application is hereby made for a permit to maintain an existing/new underground storage facility as required by 527 CMR 9.00: Permits.

Location of property: 100 Duchaine Blvd.
Street Address

Owner of property: Polaroid Corporation
Full name of person, firm or corporation

Signature of owner or authorized representative: Richard A. Chandler

FEE: \$ 15.00 (M.G.L.A. Chapt. 148 Sec. 10A)

FORM F.P. 290
(rev. 10/90)

(Fire department's copy to be filed with F.P. 290 Part 2)

RECEIVED

NOV 05 2019
City of New Bedford
Conservation Commission



Department of Public Safety
Division of Fire Prevention and Regulation

Notification for Underground Storage Tanks		STATE USE ONLY	
Submit to: LOCAL FIRE DEPARTMENT		ID NUMBER FIRE DEPT.	05201
<input checked="" type="checkbox"/> A. NEW FACILITY <input type="checkbox"/> B. AMENDED <input type="checkbox"/> C. CLOSURE		DATE RECEIVED	4-22-91
3 No. of tanks at facility 0 No. of continuation sheets attached		A. Date Entered Into Computer _____	
INSTRUCTIONS		B. Data Entry Clerk Initials _____	
Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.		C. Owner Was Contacted to Clarify Responses. Comments _____	

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1984, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

c) if the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information needs to be included).

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. Industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;

3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

II. LOCATION OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

POLAROID CORPORATION

Street Address

100 DUCHAINE BLVD

NEW BEDFORD MA

City

BRISTOL

County

(508)-998-5657

Phone Number (Include Area Code)

If required by State, give the geographic location of tanks by degrees, minutes, and seconds. Examples Lat. 42, 36, 12 N Long. 85, 24, 17 W

Latitude 41, 42, 56 N

Longitude 70, 57, 20 W

(If same as Section I, mark box here X)

Facility Name or Company Site Identifier, as applicable

POLAROID CORPORATION

Street Address (P.O. Boxes not acceptable)

100 DUCHAINE BLVD

NEW BEDFORD MA

City

BRISTOL

County

State

Zip Code

III. TYPE OF OWNER	IV. INDIAN LANDS	
<input type="checkbox"/> Federal Government <input type="checkbox"/> State Government <input type="checkbox"/> Local Government	<input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Private	<div style="display: flex; justify-content: space-between;"> <div> Tanks are located on land within an Indian Reservation or on other trust lands. Tanks are owned by native American nation, tribe, or individual. </div> <div> <input type="checkbox"/> <input type="checkbox"/> </div> </div>

V. TYPE OF FACILITY		
Select the Appropriate Facility Description		
<input type="checkbox"/> Gas Station <input type="checkbox"/> Petroleum Distributor <input type="checkbox"/> Air Taxi (Airline) <input type="checkbox"/> Aircraft Owner <input type="checkbox"/> Auto Dealership	<input type="checkbox"/> Railroad <input type="checkbox"/> Federal - Non-Military <input type="checkbox"/> Federal - Military <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Contractor	<input type="checkbox"/> Trucking/Transport <input type="checkbox"/> Utilities <input type="checkbox"/> Residential <input type="checkbox"/> Farm <input type="checkbox"/> Other (Explain) _____

VI. CONTACT PERSON IN CHARGE OF TANKS			
Name	Job Title	Address	Phone Number (Include Area Code)
RICHARD JOYCE	POWER PLANT ENGINEER	POLAROID CORP 100 DUCHANE BLVD NEW BEDFORD, MA	(508)-998-5647

VII. FINANCIAL RESPONSIBILITY		
I have met the financial responsibility requirements in accordance with 40 CFR Subpart H		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> X </div>
Check All that Apply <input checked="" type="checkbox"/> Self Insurance <input type="checkbox"/> Commercial Insurance <input type="checkbox"/> Risk Retention Group	<input type="checkbox"/> Guarantee <input type="checkbox"/> Surety Bond <input type="checkbox"/> Letter of Credit	<input type="checkbox"/> State Funds <input type="checkbox"/> Trust Fund <input type="checkbox"/> Other Method Allowed Specify _____

VIII. CERTIFICATION (Read and sign after completing all sections)
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print) RICHARD L. CHANDLER SR. ENVIRONMENTAL ENGINEER	Signature 	Date Signed 3/29/91
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EPA estimates public reporting burden for this form to average 30 minutes per response including time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding this burden estimate to Chief, Information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M Street, Washington D.C. 20460, marked "Attention Desk Officer for EPA." This form amends the previous notification form as printed in 40 CFR Part 280, Appendix I.

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. _____	Tank No. _____
1. Status of Tank (mark only one)					
Currently in Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use (Remember to fill out section IX.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use (Remember to fill out section IX.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amendment of Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Date of Installation (mo./year)	<u>6/70</u>	<u>6/70</u>	<u>6/70</u>		
3. Estimated Total Capacity (gallons)	<u>167,000</u>	<u>163,000</u>	<u>38,000</u>		
4. Material of Construction (Mark all that apply)					
Asphalt Coated or Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Epoxy Coated Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite (Steel with Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyethylene Tank Jacket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excavation Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please specify	<u>FIBERGLASS/ EPOXY COATED</u>	<u>FIBERGLASS/ EPOXY COATED</u>	<u>FIBERGLASS/ EPOXY COATED</u>		
Has tank been repaired?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Piping (Material) (Mark all that apply)					
Bare Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please specify					
6. Piping (Type) (Mark all that apply)					
Suction: no valve at tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Suction: valve at tank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gravity Feed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has piping been repaired?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. _____	Tank No. _____
7. Substance Currently or Last Stored In Greatest Quantity by Volume					
Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating Oil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Substance CERCLA name and/or, CAS number	FUEL OIL #6 68553-00-1	FUEL OIL #6 68553-00-1	FUEL OIL #2 68176-30-2	<input type="checkbox"/>	<input type="checkbox"/>
Mixture of Substances Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X. TANKS OUT OF USE, OR CHANGE IN SERVICE N/A					
1. Closing of Tank					
A. Estimated date last used (mo./day/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
B. Estimate date tank closed (mo./day/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C. Tank was removed from ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Tank was closed in ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Tank filled with inert material Describe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
F. Change in service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Site Assessment Completed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evidence of a leak detected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

XI. CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. ____	Tank No. ____			
1. Installation <u>N/A</u> A. Installer certified by tank and piping manufacturers B. Installer certified or licensed by the implementing agency C. Installation inspected by a registered engineer D. Installation inspected and approved by implementing agency E. Manufacturer's installation check-lists have been completed F. Another method allowed by State agency. Please specify.								
2. Release Detection (Mark all that apply) A. Manual tank gauging B. Tank tightness testing C. Inventory controls D. Automatic tank gauging E. Vapor monitoring F. Groundwater monitoring G. Interstitial monitoring double walled tank/piping H. Interstitial monitoring/secondary containment I. Automatic line leak detectors J. Line tightness testing K. Other method allowed by Implementing Agency. Please specify.	TANK <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	PIPING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	TANK <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	PIPING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	TANK <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	PIPING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	TANK <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	PIPING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
3. Spill and Overfill Protection A. Overfill device installed B. Spill device installed	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>			

OATH: I certify the information concerning installation that is provided in section X is true to the best of my belief and knowledge.

Installer: _____

Name Signature Date

Position Company

CITY OF NEW BEDFORD



LICENSE

To Use a Building or Other Structure
for the Keeping, Storage or ~~Use~~ of

CRUDE PETROLEUM

or any of its Products

Fee \$35.00

UNDER GENERAL LAWS,
CHAPTER 148, AS AMENDED

This is to certify that on Oct. 22, 1970
the City Council granted a license to use the land at
Industrial Park-south end of Duchaine Blvd.
(Polaroid Property)

on application of
Polaroid Corp.

for keeping, storage ~~or use~~ of products of crude petro-
leum, hereinafter specified, the premises, buildings or
structures to be used being described as follows:

Building is constructed of concrete
and is used as manufacturing plant

Products of crude petroleum to be kept, as well as number,
kind and capacity of containers to be used

Class C (#6 fuel oil): 1 und. concrete tank
167,000 gals.

1 und. tank-163,000 gals. concrete tank
Class B (#2 fuel oil): 1 und. concrete tank
38,000 gals.

Class A fluids-1000 gals. in 5 and 55 gal. drums
(above ground set on covered concrete pad)

Class A fluids- 1 und. tank in 2 sections
4,000 gals. each.

Class A fluids- 5 und. tanks -8,000 gals. each

Approved subject to compliance with the rules and regula-
tions as enforced by the Chief of the Fire Department.

Allen M. Loughran
City Clerk

CERTIFICATE OF REGISTRATION MUST BE FILED
ANNUALLY ON OR BEFORE APRIL 30

POST THIS LICENSE ON LICENSED PREMISES

Site Approved: ---

previous license: 6/26/70

3

Notification for Removal or Closure of In Place Storage Tanks Regulated Under 527 CMR 9.00

Forward completed form, signed by local fire department, to: **Mass. UST Compliance Unit, Dept. of Fire Services, P.O. Box 1025 - State Road, Stow, MA 01775**

Telephone (978) 567-3710

(Fire Department retains one copy of FP-290R)

Fire Dept. Use Only

Date Received: 7/24/99
Fire Dept. ID# 05201
Fire Dept. Sig. DG. Leger

This form is to be used for notification for removal of Underground Storage Tanks/ Piping.

If a storage facility has UST's which are to remain in use, an entire amended FP-290 (long form) must be filed.

Note: "Facility street address" must include both a street number and a street name. Post office box numbers are not acceptable, and will cause a registration to be returned. If geographic location of facility is not provided, please indicate distance and direction from closest intersection, e.g., (facility at 199 North Street is located) 400 yards southeast of Commons Road (intersection).

State Use Only

A. Facility Number _____
B. Date Entered _____
C. Clerk's Initials _____
D. Comments _____

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

POLAROID CORPORATION

Street Address

100 DUCHAINE BOULEVARD

NEW BEDFORD MA 02745

City BRISTOL

County 781-386-7374

Phone Number (Include Area Code)

Owner's Employer Federal ID #

II. LOCATION OF TANK(S)

If known, give the geographic location of tanks by degrees, minutes, and seconds. Example: Lat. 42, 36, 12 N Long. 85, 24, 17 W

Latitude 41, 42, 56 N Longitude 70, 57, 20 W

Distance and direction from closest intersection (see note above)

POLAROID CORPORATION

Facility Name or Company Site Identifier, as applicable

100 DUCHAINE BOULEVARD

Street Address (P.O. Box not acceptable - see note above)

NEW BEDFORD MA 02745

City BRISTOL

County

III. TANKS/PIPING REMOVED OR FILLED IN PLACE

Tank Number	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u>3</u>	Tank No. _____	Tank No. _____
1. Tank/Piping removed or filled in place (mark all that apply)					
A. Substance last stored	<u>#6 FUEL</u>	<u>#6 FUEL</u>	<u>#2 FUEL</u>		
B. Tank capacity gallons	<u>167,000</u>	<u>167,000</u>	<u>38,000</u>		
C. Estimated date last used (mo./day/yr.)	<u>12/20/98</u>	<u>2/15/97</u>	<u>6/30/92</u>		
D. Estimated date of removal (mo./day/yr.)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>		
E. Tank was removed from ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Tank was not removed from ground	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank was filled with inert material	<u>NA</u>	<u>NA</u>	<u>NA</u>		
Describe material used:	<u>SEE ATTACHED (7/13/98-PARSONS I+T GROUP)</u>				
G. Piping was removed from ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Piping was not removed from ground	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Other, please specify					

A. Evidence of leak detected

B. Mass. DEP notified

1. Mass. DEP tracking number

2. Agency or company performing contamination assessment *

*527 CMR 9.07 (J), see "Commonwealth of Massachusetts, Underground Storage Tank Closure Assessment Manual" April 9, 1996
DEP Policy #WSC-402-96

☒ Yes ☐ No

☐ Yes ☒ No

☐ Yes ☒ No

☒ Yes ☐ No

☐ Yes ☒ No

☐ Yes ☒ No

☒ Yes ☐ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

I declare under penalty of perjury that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print)

Signature:

Date:

STEPHEN A KELCHES
DIRECTOR OF MANUFACTURING
OPERATIONS



9/20/99

PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP INC.

30 Dan Road • Canton, Massachusetts 02021-2809 • (781) 401-3200 • Fax: (781) 401-2575

September 3, 1998

Mr. Richard Chandler
Environmental Manager
Polaroid Corporation
100 Duchaine Boulevard, Bldg NB1
New Bedford, MA 02745

Project: NB2 Oil Tanks Installation
New Bedford, MA
Job No. 732140-02000

SUBJECT: Abandonment In-Place of Concrete Bunkers Classified
as Underground Storage Tanks (UST)
Letter No. PP-23

Dear Mr. Chandler:

The purpose of this letter is to present the possible consequences of abandonment in-place of two concrete bunkers that are classified as UST, in accordance with Board of Fire Prevention Regulations.

BACKGROUND

The Board of Fire Prevention Regulations, 527CMR9.07(J)(1), requires that Underground Storage Tanks (UST) which are to be abandoned in-place must be filled with a concrete slurry mix or other inert material approved by the Marshall.

The USTs consist of three concrete bunkers, ten feet deep, with a common concrete slab foundation. The bunkers are separated with one-foot thick concrete walls, and are covered with a concrete roof.

- The two larger bunkers are each nominally 50 ft. x 50 ft. in plan, and have a storage capacity of 150,000 gallons. The roofs of these bunkers each support a cooling tower. Low concrete walls (18 inches) constructed around the perimeter enable the roofs to also serve as a basin for the collection of the cooling tower condensate water. The south bunker has been cleaned out, and will be used as a vault for the construction of three 23,000 gallon steel fuel oil storage tanks. The north bunker is proposed to be abandoned in place after all oil has been pumped out. The bunker will not be used for oil storage effective December 22, 1998.

- The third bunker is nominally 20 ft. x 20 ft. in plan with a storage capacity of 40,000 gallons, and is located on the east side of the north bunker. Any oil previously stored in this bunker has been pumped out, the bunker has been cleaned and is proposed to be abandoned in place.

POSSIBLE CONSEQUENCES OF ABANDONMENT IN-PLACE BY FILLING WITH CONCRETE

Soil conditions underlying the site of the existing USTs are described in a report prepared by Haley & Aldrich Inc. in June 1995 (Ref. 1). The report recommends an allowable bearing pressure of 3,000 psf for shallow foundations (footings and mats) constructed at this area of the Polaroid site. Estimated settlement at this bearing pressure is 1 inch total and 3/4 inch differential.

The maximum foundation loading which the soils underlying the existing USTs have experienced is approximately 1,200 psf. This includes the weight of concrete structure, fuel oil, cooling tower, and water contained in the cooling tower basin. If the north 150,000 gallon UST and the 40,000 gallon UST are filled with concrete, the foundation loading will become non-uniform. Soil bearing pressure below the concrete-filled north end of the structure will increase to about 2,500 psf., whereas the soil bearing pressure below the south end of the structure will reduce to less than 1,000 psf. This non-uniform loading will tend to produce non-uniform settlement of the structure towards the heavier north end. The magnitude of differential settlement is expected to be on the order of 1/2 inch.

Differential movement of this magnitude could be a concern with respect to the existing cooling water piping which runs underground from the boiler house to the cooling tower basin pump chamber and the fuel oil piping that runs underground from the boiler house to the pump room adjacent to the concrete bunkers. These rigid, heavy-wall pipes could be overstressed and might fail if subjected to excessive movement where they enter the concrete structure. In addition, differential movement could overstress portions of the structure itself, resulting in damage or failure.

If cracks should occur within the structure, leakage of cooling water either through the basin to the South bunker or through the wall of the sluice and wet well to the surrounding soils could result. In either case, the cooling tower could be rendered inoperative and could be damaged sufficiently so as to necessitate its demolition. Should the existing cooling tower become inoperative or require demolition, Polaroid would have to incur the expense of its replacement and the potential loss of production for lack of process cooling capability.

Mr. Richard Chandler
Polaroid Corporation
September 3, 1998
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If you have any questions regarding the contents of this letter, please feel free to contact me at (781) 401-2555.

Very truly yours,

PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP, INC.

Damodar R. Pandit, P.E.
Chief Civil & Structural Engineer

REF. 1 Haley & Aldrich Inc. Report on Subsurface Investigations and Foundation Design Recommendations, Polaroid Corporation, NB2 Utilities Improvements, New Bedford, MA, 19 June 1995.

cc: Richard Trinidad, Polaroid
 William Bodtman, Parsons
 Anil Wagle, Parsons

Proposed Fuel Storage - 1997
Orig. Log

