

**B. Suggested Form for Notice of Intent (NOD) for the Remediation General Permit**

**1. General site information. Please provide the following information about the site:**

a) Name of facility/site: Gustafson residence		Facility SIC code(s): NA		Facility/site address: Street: 244 Burnstead Road	
Location of facility/site: longitude: 72.19 latitude: 42.03					
b) Name of facility/site owner: Jeffrey Gustafson		Town: Monson			
Email address of owner:		State: MA	Zip: 01057	County: Hampden	
Telephone no. of facility/site owner: (413) 267-5437		Owner is (check one): 1. Federal _____ 2. State/Tribal _____			
Fax no. of facility/site owner:		3. Private <input checked="" type="checkbox"/> 4. other, if so, describe: _____			
Address of owner (if different from site):		Street:			
Town:		State:	Zip:	County:	
c) Legal name of operator: ENPRO Services, Inc.		Operator telephone no: (978) 465-1595			
		Operator fax no.: (978) 465-2050		Operator email: jgarretson@enpro.com	
Operator contact name and title: Mr. Jeffrey Garretson, WWTPPO					

Address of operator (if different from owner):

Street: 12 Mulliken Way

Town: Newburyport

State: MA

Zip: 01950

County: Essex

d) Check "yes" or "no" for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Yes  No  if "yes," number:

2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes  No  if "yes," date and tracking #:

3. Is the discharge a "new discharge" as defined by 40 CFR 122.27? Yes  No  For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes  No

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes  No  If "yes," please list:

1. site identification # assigned by the state of NH or MA: RTN 1-16150

2. permit or license # assigned: n/a

3. state agency contact information: name, location, and telephone number: Mr. Joel Rees, MADEP WRO, (413) 755-2114

f) Is the site/facility covered by any other EPA permit, including:

1. multi-sector storm water general permit? Y  N  if Y, number:

2. phase I or II construction storm water general permit? Y  N  if Y, number:

3. individual NPDES permit? Y  N  if Y, number:

4. any other water quality related permit? Y  N  if Y, number:

**2. Discharge information.** Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Emergency remediation of a release of #2 fuel oil. Groundwater will be recovered by impacted bedrock water supply well to onsite treatment system.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft<sup>3</sup>/s)? Max. flow 1.34 Average flow 0.67 Is maximum flow a design value? Y  N  For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Avg. flow of 0.67 cfs (5 gpm) is an estimate.

3) Latitude and longitude of each discharge within 100 feet: pt.1: long. 72:21 lat. 42:03 ; pt.2: long. lat. ; pt.3: long. lat. ; pt.4: long. lat. ; pt.5: long. lat. ; pt.6: long. lat. ; pt.7: long. lat. ; pt.8: long. lat. ; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal <input type="checkbox"/> ? Is discharge ongoing Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>05/29/06</u> end <u>08/31/06</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	✓									
2. Total Residual Chlorine	✓									
3. Total Petroleum Hydrocarbons		✓								
4. Cyanide	✓									
5. Benzene		✓								
6. Toluene		✓								
7. Ethylbenzene		✓								
8. (m,p,o) Xylenes		✓								
9. Total BTEX <sup>4</sup>		✓								

<sup>4</sup> BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓									
11. Methyl-tert-Butyl Ether (MTBE)	✓									
12. tert-Butyl Alcohol (TBA)	✓									
13. tert-Amyl Methyl Ether (TAME)	✓									
14. Naphthalene		✓								
15. Carbon Tetra-chloride	✓									
16. 1,4 Dichlorobenzene	✓									
17. 1,2 Dichlorobenzene	✓									
18. 1,3 Dichlorobenzene	✓									
19. 1,1 Dichloroethane	✓									
20. 1,2 Dichloroethane	✓									
21. 1,1 Dichloroethylene	✓									
22. cis-1,2 Dichloro-ethylene	✓									
23. Dichloromethane (Methylene Chloride)	✓									
24. Tetrachloroethylene	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓									
26. 1,1,2 Trichloroethane	✓									
27. Trichloroethylene	✓									
28. Vinyl Chloride	✓									
29. Acetone	✓									
30. 1,4 Dioxane	✓									
31. Total Phenols	✓									
32. Pentachlorophenol	✓									
33. Total Phthalates <sup>5</sup> (Phthalate esters)	✓									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓									
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓									
a. Benzo(a) Anthracene	✓									
b. Benzo(a) Pyrene	✓									
c. Benzo(b)Fluoranthene	✓									
d. Benzo(k) Fluoranthene	✓									
e. Chrysene	✓									

<sup>5</sup>The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓									
g. Indeno(1,2,3-cd) Pyrene	✓									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓								
h. Acenaphthene		✓								
i. Acenaphthylene		✓								
j. Anthracene		✓								
k. Benzo(ghi) Perylene		✓								
l. Fluoranthene		✓								
m. Fluorene		✓								
n. Naphthalene-		✓								
o. Phenanthrene		✓								
p. Pyrene		✓								
37. Total Polychlorinated Biphenyls (PCBs)	✓									
38. Antimony	✓									
39. Arsenic	✓									
40. Cadmium	✓									
41. Chromium III	✓									
42. Chromium VI	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (MTL) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	<input checked="" type="checkbox"/>									
44. Lead	<input checked="" type="checkbox"/>									
45. Mercury	<input checked="" type="checkbox"/>									
46. Nickel	<input checked="" type="checkbox"/>									
47. Selenium	<input checked="" type="checkbox"/>									
48. Silver	<input checked="" type="checkbox"/>									
49. Zinc	<input checked="" type="checkbox"/>									
50. Iron	<input checked="" type="checkbox"/>									
Other (describe):										

c) For discharges where metals are believed present, please fill out the following:

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ___ N ___ <input checked="" type="checkbox"/></p> <p><i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the <b>dilution factor (DF)</b> using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: _____</p> <p>DF: _____</p>	<p>If yes, which metals?</p> <p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ___ N ___ If "Yes," list which metals:</p>
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**4. Treatment system information.** Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:  
See attached schematic of the proposed Groundwater Treatment System.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	Dechlorination	Other (please describe):	✓	✓	✓

c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:  
Average flow rate of discharge 5 Maximum flow rate of treatment system 10 Design flow rate of treatment system 10

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):  
None

**5. Receiving surface water(s).** Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct <u>    </u>	Within facility <u>    </u>	Storm drain <u>    </u>	River/brook <u>    </u>	Wetlands <u>    </u>	Other (describe): Woodlands on site
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:  
Discharge to an on-site woodlands. The nearest surface water body, drainage swale or wetland area is located over 530 feet north of the Site and is a tributary to the Chicopee Brook.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:  
1. For multiple discharges, number the discharges sequentially.

2. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water. The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water GW-1

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water n/a cfs  
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes  No  If yes, for which pollutant(s)?

Is there a TMDL? Yes  No  If yes, for which pollutant(s)?

**6. Results of Consultation with Federal Services:** Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes  No   
Has any consultation with the federal services been completed? No  or is consultation underway? Yes   
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):  
a "no jeopardy" opinion?  or written concurrence  on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?  
Yes  No  Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes  No

**7. Supplemental information :**

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

The results of the influent sampling are summarized in the attached table, Summary of Private Well sampling Results; the laboratory reports are also attached. Groundwater from the affected bedrock water supply well will be treated and discharged onsite. Analytical sampling of the private well has been conducted for the parameters listed in Appendix VI and analytical results are pending.

Per Section 2 (d) of this NOI, the source of the intake water is recovered groundwater that has been impacted by a release of #2 fuel oil. The total volume of impacted groundwater requiring treatment is not known at this time.

Due to the emergency nature of this #2 fuel oil release and subsequent immediate and accelerated response actions, ENPRO, on behalf of the the property owner, is submitting this NOI in an attempt to commence the on-site treatment and discharge of impacted groundwater as soon as possible in order to prevent further migration of the release. As the spill site has been a residence for more than 50 years and the source of the groundwater contamination is a release on #2 fuel oil from an on-site AST, it is assumed for the purposes of the NOI submittal the the category best fitting the release is "Fuel Oils Only"

1. Site Plan
2. Groundwater Treatment Schematic
3. United States Geological Survey Map

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes  No   
Has any consultation with the federal services been completed? No  or is consultation underway? Yes  No   
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):  
a "no jeopardy" opinion?  or written concurrence  on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?  
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?  
Yes  No  Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes  No

7. Supplemental information :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Facility/Site Name: Gustafson Residence, 244 Burnstead Road, MONSON, MA  
Operator signature: Anthony W. Gustafson  
Title: Project manager, Grade II WTP Operator Reg No. 13071  
Date: 5/24/06

**Summary of Private Water Supply Well Results  
242 Bumstead Road  
Monson, MA**

Analytical Parameter	Location and Analytical Results	
	Influent	Influent
	4/10/2006	5/5/2006
Notes	1	2
<b>VOCs per 524</b>		
Benzene	4.1	4.8
Sec-Butylbenzene	BRL	ND
Ethylbenzene	3.5	8.3
Isopropylbenzene	BRL	1.2
4-isopropyltoluene	0.7	0.9
MTBE	64.5	28
Naphthalene	7.1	17
n-propylbenzene	BRL	0.64
Toluene	19.9	29
1,2,4-Trimethylbenzene	14.5	29
1,3,5-Trimethylbenzene	7.9	11
m,p-Xylene	40.1	65
o-Xylene	41.7	49
Tert-amyl methyl ether	3.6	-
Ethyl tert-butyl ether	0.7	-
<b>VPH Fractions</b>		
C5-C8 Aliphatics	-	ND
C9-C12 Aliphatics	-	ND
C9-C10 Aromatics	-	280
<b>Target Analytes</b>		
Benzene	-	5.2
Ethylbenzene	-	8.4
m-Xylene & p-Xylene	-	72
MTBE	-	20
Naphthalene	-	16
o-Xylene	-	54
Toluene	-	32
<b>EPH Fractions</b>		
C9-C18 Aliphatics	-	ND
C19-C36 Aliphatics	-	ND
C11-C22 Aromatics	-	ND
<b>Target PAHs (Full List)</b>		
Naphthalene	-	6.3
2-Methylnaphthalene	-	4.4
Fluorene	-	ND

All Results in ug/L.  
Only Detected Compounds presented.

**Notes**

1. Samples collected by homeowners and analyzed by Spectrum A
2. Samples collected by ENPRO and analyzed by Severn Trent Lal

**Summary of Private Water Well Sampling Results**  
**244 Bumstead Road**  
**Monson, MA**

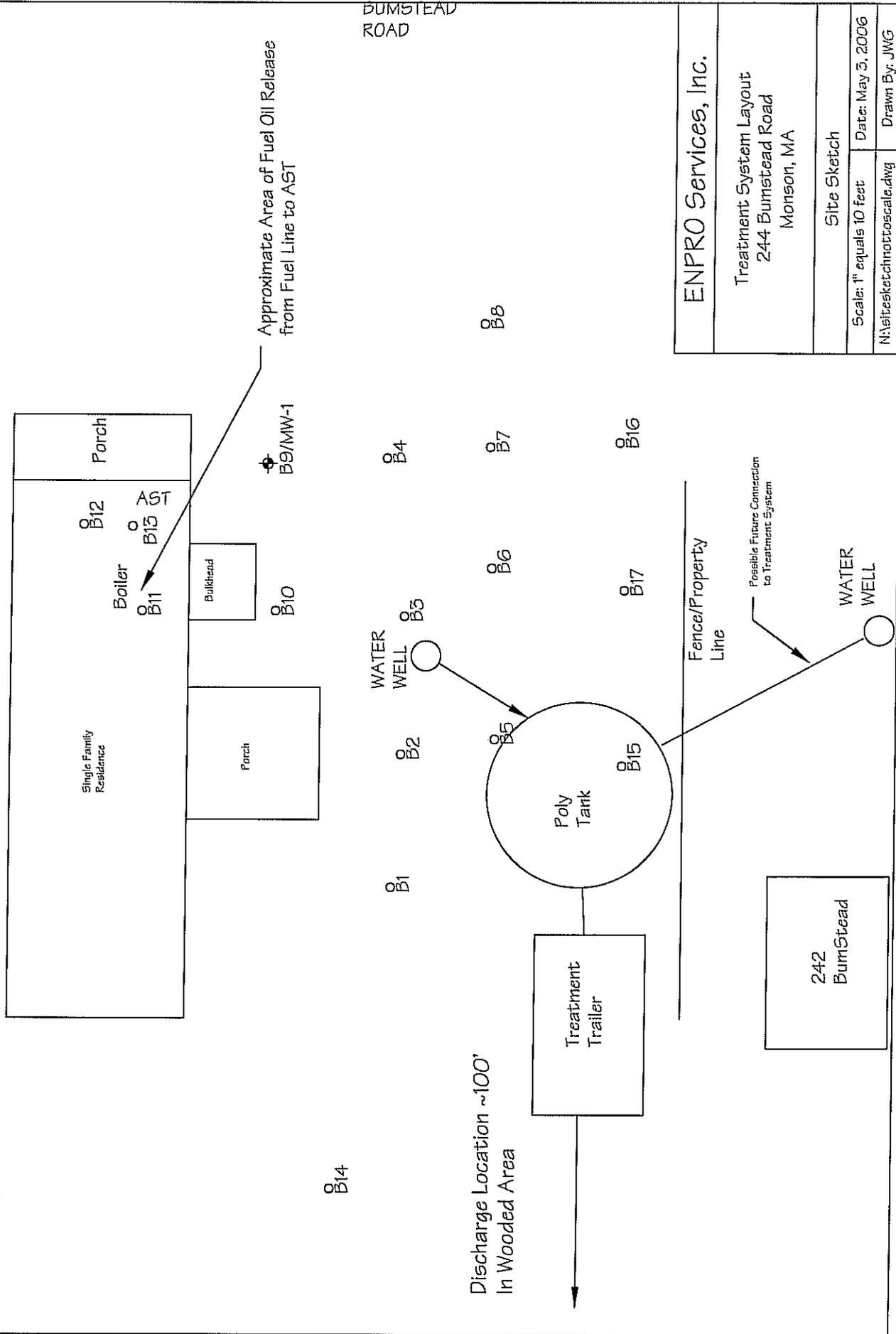
Analytical Parameter	Location and Analytical Results	
	Influent	Influent
	4/25/2006	5/5/2006
<b>Notes</b>	1	2
<b>VOCs per 524.2</b>		
Benzene	1	ND
Sec-Butylbenzene	1.1	ND
Ethylbenzene	6.2	ND
isopropylbenzene	2.1	ND
4-isopropyltoluene	1.4	0.55
MTBE	62.8	42
Naphthalene	18.8	3.7
n-propylbenzene	2.4	ND
Toluene	11.1	2.7
1,2,4-Trimethylbenzene	28.4	7.2
1,3,5-Trimethylbenzene	11.6	8
m,p-Xylene	36.2	13
o-Xylene	39.4	31
<b>VPH Fractions</b>		
C5-C8 Aliphatics	-	ND
C9-C12 Aliphatics	-	ND
C9-C10 Aromatics	-	170
<b>Target Analytes</b>		
Benzene	-	ND
Ethylbenzene	-	ND
m-Xylene & p-Xylene	-	12
MTBE	-	33
Naphthalene	-	ND
o-Xylene	-	32
Toluene	-	ND
<b>EPH Fractions</b>		
C9-C18 Aliphatics	-	ND
C19-C36 Aliphatics	-	ND
C11-C22 Aromatics	-	ND
<b>Target PAHs</b>		
Naphthalene	-	1.9
2-Methylnaphthalene	-	4.9
Fluorene	-	0.57 J

All Results in ug/L.  
Only Detected Compounds presented.

**Notes**

1. Samples collected by homeowners and analyzed by Spectrum Analytical.
2. Samples collected by ENPRO and analyzed by Severn Trent Laboratories.

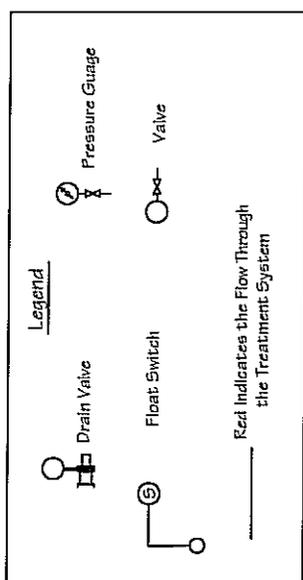
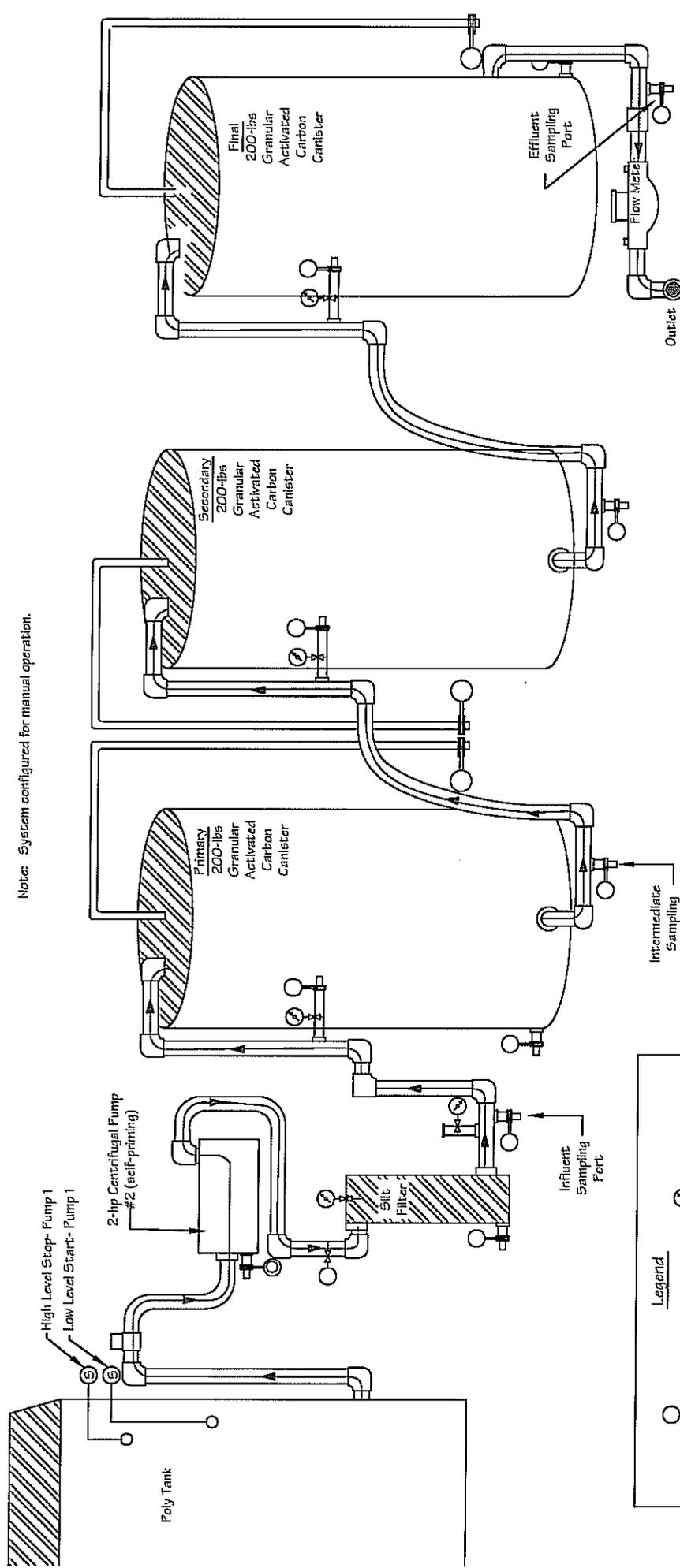




BUMSTEAD ROAD

<b>ENPRO Services, Inc.</b>	
Treatment System Layout 244 Bumstead Road Monson, MA	
Site Sketch	
Scale: 1" equals 10 feet	Date: May 3, 2006
N:\site\sketch\nottoscale.dwg	
Drawn By: JWG	

Note: System configured for manual operation.



ENPRO Services, Inc.

Gustafson Residence  
244 Bumstead Road  
Monson, MA

Proposed 10 GPM Groundwater  
Treatment System Schematic

Date: Jan. 4, 2006  
Drawn By: GEL