

APPENDIX A

Bourne - Site 19

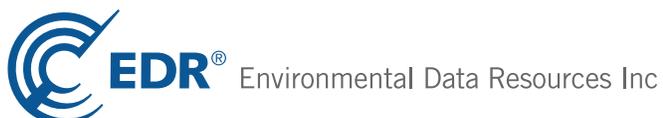
Buzzards Bay Bypass

Buzzards Bay, MA 02532

Inquiry Number: 3719357.1s

September 05, 2013

The EDR Radius Map™ Report



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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BUZZARDS BAY BYPASS
BUZZARDS BAY, MA 02532

COORDINATES

Latitude (North): 41.7520000 - 41° 45' 7.20"
Longitude (West): 70.6070000 - 70° 36' 25.20"
Universal Transverse Mercator: Zone 19
UTM X (Meters): 366390.9
UTM Y (Meters): 4623276.5
Elevation: 22 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 41070-G5 SAGAMORE, MA
Most Recent Revision: 1979

South Map: 41070-F5 POCASSET, MA
Most Recent Revision: 1979

Southwest Map: 41070-F6 ONSET, MA
Most Recent Revision: 1967

West Map: 41070-G6 WAREHAM, MA
Most Recent Revision: 1972

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Database/Transfer Stations

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tank Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Aboveground Storage Tank Database
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites With Activity and Use Limitation

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Liens Information Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
RELEASE..... Reportable Releases Database
SPILLS..... Historical Spill List
SPILLS 80..... SPILLS 80 data from FirstSearch
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data

EXECUTIVE SUMMARY

DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
US MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
NPDES.....	NPDES Permit Listing
DRYCLEANERS.....	Regulated Drycleaning Facilities
ENF.....	Enforcement Action Cases
AIRS.....	Permitted Facilities Listing
TIER 2.....	Tier 2 Information Listing
LEAD.....	Lead Inspection Database
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
PRP.....	Potentially Responsible Parties
2020 COR ACTION.....	2020 Corrective Action Program List
LEAD SMELTERS.....	Lead Smelter Sites
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
Financial Assurance.....	Financial Assurance Information Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
GWDP.....	Ground Water Discharge Permits
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/18/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
G W DOUGLAS CO INC	273 MAIN ST	SSE 1/8 - 1/4 (0.229 mi.)	B4	13

State- and tribal - equivalent CERCLIS

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 06/28/2013 has revealed that there are 16 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>NO LOCATION AID</i> Release Tracking Number / Current Status: 4-0010292 / Response Action Outcome	<i>11 PERRY AVE</i>	<i>SE 1/4 - 1/2 (0.311 mi.)</i>	<i>19</i>	<i>52</i>
<i>NO LOCATION AID</i> Release Tracking Number / Current Status: 4-0018871 / Response Action Outcome	<i>101 MAPLE ST</i>	<i>E 1/4 - 1/2 (0.355 mi.)</i>	<i>20</i>	<i>57</i>
<i>IHOP RESTAURANT</i> Release Tracking Number / Current Status: 4-0010698 / Downgradient Property Status	<i>2 BOURNE ROTARY</i>	<i>E 1/4 - 1/2 (0.452 mi.)</i>	<i>24</i>	<i>69</i>
<i>RESIDENCE</i> Release Tracking Number / Current Status: 4-0024343 / Response Action Outcome	<i>291 HEAD OF THE BAY ROA</i>	<i>NNE 1/2 - 1 (0.823 mi.)</i>	<i>30</i>	<i>98</i>
<i>Not reported</i> Release Tracking Number / Current Status: 4-0011936 / Response Action Outcome	<i>1 SANDWICH RD</i>	<i>SSE 1/2 - 1 (0.890 mi.)</i>	<i>31</i>	<i>99</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>BUZZARD BAY MOBIL</i> Release Tracking Number / Current Status: 4-0022638 / Response Action Outcome Release Tracking Number / Current Status: 4-0018009 / Response Action Outcome Not Required	<i>246 MAIN ST</i>	<i>SSE 1/8 - 1/4 (0.234 mi.)</i>	<i>C10</i>	<i>18</i>
<i>BOURNE SHELL</i> Release Tracking Number / Current Status: 4-0001334 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.	<i>246 MAIN ST</i>	<i>SSE 1/8 - 1/4 (0.234 mi.)</i>	<i>C11</i>	<i>27</i>
<i>PHILS AUTO SERVICE INC</i> Release Tracking Number / Current Status: 4-0016075 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.	<i>229 MAIN ST</i>	<i>S 1/4 - 1/2 (0.251 mi.)</i>	<i>E16</i>	<i>45</i>

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEXT TO BETTY ANNS Release Tracking Number / Current Status: 4-0013325 / Response Action Outcome	227 MAIN ST	S 1/4 - 1/2 (0.254 mi.)	E18	50
BOURNE POLICE HQ Release Tracking Number / Current Status: 4-0010342 / Response Action Outcome	175 MAIN ST	SSW 1/4 - 1/2 (0.383 mi.)	F21	59
NO LOCATION AID Release Tracking Number / Current Status: 4-0016701 / Response Action Outcome	42 HOLT RD	SSW 1/4 - 1/2 (0.406 mi.)	23	67
FORMER CANAL VIEW AUTO Release Tracking Number / Current Status: 4-0018050 / Response Action Outcome	2 AND 6 CANAL VIEW RD	SSW 1/4 - 1/2 (0.477 mi.)	25	72
GROSSMANS FMR Release Tracking Number / Current Status: 4-0001348 / Response Action Outcome Not Required Release Tracking Number / Current Status: 4-0010373 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.	120 MAIN ST	SSW 1/2 - 1 (0.516 mi.)	27	80
NO LOCATION AID Release Tracking Number / Current Status: 4-0012165 / No Further Action (DEP Determined)	SCENIC HWY	E 1/2 - 1 (0.635 mi.)	28	95
PROPERTY Release Tracking Number / Current Status: 4-0006004 / Response Action Outcome	9 WALLACE POINT RD	W 1/2 - 1 (0.772 mi.)	29	96
AT ONSET AVE Release Tracking Number / Current Status: 4-0012824 / Response Action Outcome	3223 CRANBERRY HWY	WSW 1/2 - 1 (0.995 mi.)	32	101

State and tribal leaking storage tank lists

LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the LUST list, as provided by EDR, and dated 06/28/2013 has revealed that there are 10 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
XTRA MART Release Tracking Number / Current Status: 4-0012010 / Response Action Outcome	261 MAIN ST	SSE 1/8 - 1/4 (0.226 mi.)	A3	9
SUNOCO SERVICE STATION Release Tracking Number / Current Status: 4-0001180 / Response Action Outcome	298 MAIN ST	SE 1/4 - 1/2 (0.252 mi.)	17	48
NO LOCATION AID Release Tracking Number / Current Status: 4-0010292 / Response Action Outcome Release Tracking Number / Current Status: 4-0010351 / Response Action Outcome	11 PERRY AVE	SE 1/4 - 1/2 (0.311 mi.)	19	52
IHOP RESTAURANT Release Tracking Number / Current Status: 4-0010698 / Downgradient Property Status	2 BOURNE ROTARY	E 1/4 - 1/2 (0.452 mi.)	24	69
BOURNE EXXON STATION 3 5693 Release Tracking Number / Current Status: 4-0000335 / Response Action Outcome	RTE 6 ROTARY	E 1/4 - 1/2 (0.486 mi.)	26	74
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BUZZARD BAY MOBIL Release Tracking Number / Current Status: 4-0022638 / Response Action Outcome	246 MAIN ST	SSE 1/8 - 1/4 (0.234 mi.)	C10	18
BOURNE COMMUNITY BLDG Release Tracking Number / Current Status: 4-0016962 / Response Action Outcome Not Required	229-239 MAIN ST	S 1/4 - 1/2 (0.251 mi.)	E14	42

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PHILS AUTO FMR Release Tracking Number / Current Status: 4-0016216 / Response Action Outcome Not Required	229 MAIN ST	S 1/4 - 1/2 (0.251 mi.)	E15	44
BOURNE POLICE HQ Release Tracking Number / Current Status: 4-0010342 / Response Action Outcome	175 MAIN ST	SSW 1/4 - 1/2 (0.383 mi.)	F21	59
BUZZARDS BAY GARAGE INC Release Tracking Number / Current Status: 4-0021068 / Response Action Outcome	174 MAIN ST	SSW 1/4 - 1/2 (0.384 mi.)	F22	62

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the UST list, as provided by EDR, and dated 07/19/2013 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BUZZARDS BAY XTRA MART Facility Id: 1166	261 MAIN ST	SSE 1/8 - 1/4 (0.226 mi.)	A2	7
BOURNE SUNOCO 0014-3347 Facility Id: 1172	282 MAIN ST	SE 1/8 - 1/4 (0.238 mi.)	D13	40
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOURNE SHELL Facility Id: 1185	246 MAIN ST	SSE 1/8 - 1/4 (0.234 mi.)	C11	27

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/18/2013 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOKS EQUIPMENT REPAIR	270 MAIN ST	SSE 1/8 - 1/4 (0.230 mi.)	A6	14
TIMBERLINE EQUIPMENT INC	270 MAIN ST	SSE 1/8 - 1/4 (0.230 mi.)	A7	16

EXECUTIVE SUMMARY

HW GEN: Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

A review of the HW GEN list, as provided by EDR, and dated 06/10/2013 has revealed that there are 2 HW GEN sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RED TOP SPORTING GOODS	265 MAIN ST	SSE 1/8 - 1/4 (0.226 mi.)	A1	7
G W DOUGLAS CO INC	273 MAIN ST	SSE 1/8 - 1/4 (0.229 mi.)	B5	14

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 3 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

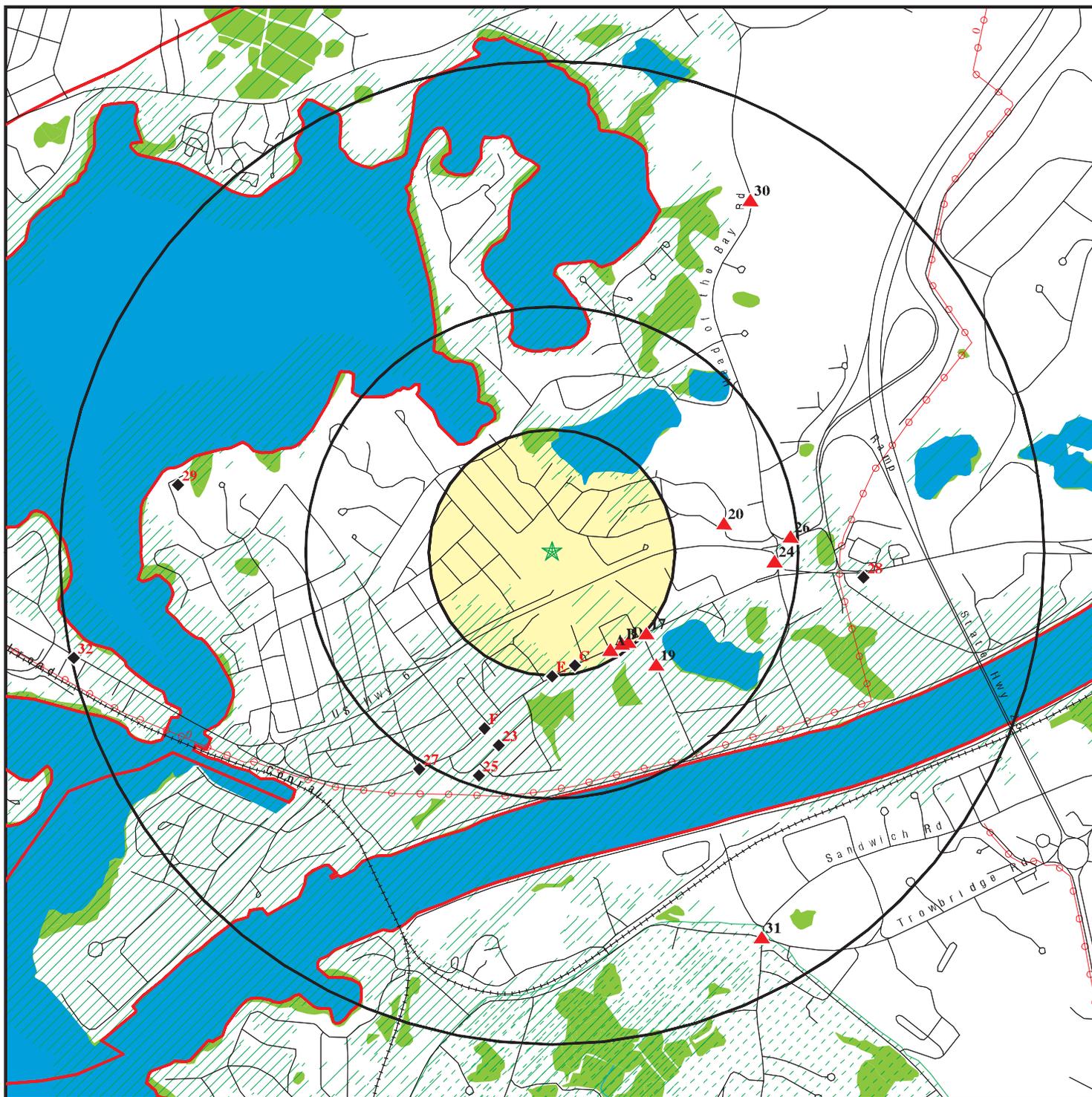
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	275 MAIN ST	SE 1/8 - 1/4 (0.230 mi.)	B8	17
Not reported	279 MAIN ST	SE 1/8 - 1/4 (0.233 mi.)	B9	18
Not reported	282 MAIN ST	SE 1/8 - 1/4 (0.238 mi.)	D12	40

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
BOURNE DPW	HW GEN
CONTINENTAL MARINE	HW GEN
BOURNE	FINDS,AIRS (AFS)
SCENIC HWY REST AREA	HWS,RELEASE
GUN POSITION 11	HWS,RELEASE
GUN POSITION 10	HWS,RELEASE
EAST CANAL APPROACH	HWS,RELEASE
OLD GUN POSITION 15	HWS,RELEASE
NO LOCATION AID	HWS,RELEASE
OTIS AIR FORCE BASE LANDFILL	FINDS,LF
CONTINENTAL MARINA	UST,FINANCIAL ASSURANCE 1
ASTRO ENERGY CORPORATION	UST,FINANCIAL ASSURANCE 1
ARMY NATIONAL GUARD ARMORY	RCRA-LQG
EXXON CO USA 37866	RCRA-NLR
SUNOCO SERVICE STA	FINDS,RCRA-NLR
NEW ENGLAND TELE	FINDS,RCRA-NLR
NEW ENGLAND TELE	FINDS,RCRA-NLR
	ERNS
	ERNS
	ERNS

OVERVIEW MAP - 3719357.1s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

— County Boundary

— Power transmission lines

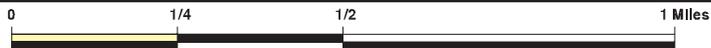
— Oil & Gas pipelines from USGS

— 100-year flood zone

— 500-year flood zone

■ National Wetland Inventory

■ Areas of Critical Environmental Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bourne - Site 19
 ADDRESS: Buzzards Bay Bypass
 Buzzards Bay MA 02532
 LAT/LONG: 41.752 / 70.607

CLIENT: Weston and Sampson Engineers
 CONTACT: Mel Higgins
 INQUIRY #: 3719357.1s
 DATE: September 05, 2013 12:47 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	2	8	6	NR	16
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	2	8	NR	NR	10
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250		0	3	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
HW GEN	0.250		0	2	NR	NR	NR	2
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
GWDP	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	3	NR	NR	NR	3
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

A1 SSE 1/8-1/4 0.226 mi. 1194 ft.	RED TOP SPORTING GOODS 265 MAIN ST BUZZARDS BAY, MA 02532 Site 1 of 5 in cluster A	HW GEN	S113410071 N/A
Relative: Higher	HW GEN: EPA Id: MAV000011715 RCRA Generator Status: VSQG State Generator Status: Not reported		
Actual: 23 ft.			

A2 SSE 1/8-1/4 0.226 mi. 1195 ft.	BUZZARDS BAY XTRA MART 261 MAIN ST BUZZARDS BAY, MA 02532 Site 2 of 5 in cluster A	UST Financial Assurance	U002008150 N/A
Relative: Higher	UST: Facility: Facility ID: 1166 Owner Id: 9675 Owner: CCO LLC Owner Address: 2138 SILAS DEANE HWY STE 101 Owner City,St,Zip: ROCKY HILL, CT 06067 Telephone: (860) 757-3434 Description: Gas Station Fire Dept. ID: 1036 Date of Inspection: 07/23/2010		

Tank ID:	1
Serial Number:	Not reported
Tank Status:	Removed
Status Date:	02/19/1996
Date Installed:	06/16/1978
Capacity:	12000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Steel
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced
Pipe Container:	1 Wall
Pipe Leak Detection:	Product Line Leak Detector
Above Ground:	No

Tank ID:	2
Serial Number:	Not reported
Tank Status:	Removed
Status Date:	02/19/1996
Date Installed:	06/17/1979
Capacity:	10000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Steel
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY XTRA MART (Continued)

U002008150

Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 3
Serial Number: Not reported
Tank Status: Removed
Status Date: 02/19/1996
Date Installed: 06/17/1979
Capacity: 8000
Contents: Gasoline
Tank Type: 1 Wall
Tank Usage: MV
Tank Material: Steel
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 1 Wall
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 4
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 03/04/1996
Capacity: 8000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 5
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 03/04/1996
Capacity: 8000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

MA Financial Assurance 2:
Facility Id: 1166

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY XTRA MART (Continued)

U002008150

Description: Gas Station
Work Phone: (860) 757-3434

A3
SSE
1/8-1/4
0.226 mi.
1195 ft.

XTRA MART
261 MAIN ST
BOURNE, MA 02532
Site 3 of 5 in cluster A

LUST **S106508890**
RELEASE **N/A**

Relative:
Higher

LUST:

Facility:

Actual:
22 ft.

Release Tracking Number/Current Status: 4-0012010 / Response Action Outcome
Status Date: 03/18/2002
Source Type: UST
Release Town: BOURNE
Notification Date: 03/13/1996
Category: 72 HR
Associated ID: Not reported
Phase: PHASE V
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: GASOLINE
Quantity: 100 parts per million

Actions:

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 1/28/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/14/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 10/16/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 10/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XTRA MART (Continued)

S106508890

reduced to background.

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 10/6/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 11/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 11/24/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 12/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/13/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/13/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 3/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XTRA MART (Continued)

S106508890

Action Status:	Tier 2 Classification
Action Date:	3/18/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/18/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/18/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/19/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/25/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	3/30/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/1/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	4/14/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/23/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	4/26/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XTRA MART (Continued)

S106508890

reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 5/17/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 5/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 5/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 6/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 7/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/3/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 8/6/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0012010 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 03/13/1996
Category: 72 HR
Status Date: 03/18/2002
Phase: PHASE V
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

XTRA MART (Continued)

S106508890

[Click here to access the MA DEP site for this facility:](#)

B4
SSE
1/8-1/4
0.229 mi.
1209 ft.

G W DOUGLAS CO INC
273 MAIN ST
BOURNE, MA 02532
Site 1 of 4 in cluster B

RCRA-SQG 1000864760
MAD985291004

Relative:
Higher

RCRA-SQG:

Actual:
23 ft.

Date form received by agency: 10/27/1993
Facility name: G W DOUGLAS CO INC
Facility address: 273 MAIN ST
BOURNE, MA 02532
EPA ID: MAD985291004
Contact: LOUIS S WILSON
Contact address: 273 MAIN ST
BUZZARDS BAY, MA 02532
Contact country: US
Contact telephone: (508) 759-2258
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: CW DOUGLAS CO INC
Owner/operator address: 273 MAIN ST
BUZZARDS BAY, MA 02532
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/07/1994
Owner/Op end date: Not reported

Owner/operator name: C W DOUGLAS CO INC
Owner/operator address: 273 MAIN ST
BUZZARDS BAY, MA 02532
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

G W DOUGLAS CO INC (Continued)

1000864760

On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001
 Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D026
 Waste name: CRESOL

Waste code: D039
 Waste name: TETRACHLOROETHYLENE

Waste code: MA01
 Waste name: WASTE OIL

Waste code: MA99
 Waste name: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Violation Status: No violations found

B5 **G W DOUGLAS CO INC**
SSE **273 MAIN ST**
1/8-1/4 **BUZZARDS BAY, MA 02532**
0.229 mi.
1209 ft. **Site 2 of 4 in cluster B**

HW GEN **S112553722**
N/A

Relative: HW GEN:
Higher EPA Id: MAD985291004
 RCRA Generator Status: SQG
Actual: State Generator Status: Not reported
23 ft.

A6 **COOKS EQUIPMENT REPAIR**
SSE **270 MAIN ST**
1/8-1/4 **BOURNE, MA**
0.230 mi.
1214 ft. **Site 4 of 5 in cluster A**

RCRA NonGen / NLR **1000272214**
FINDS **MAD981897838**

Relative: RCRA NonGen / NLR:
Higher Date form received by agency: 10/09/1986
 Facility name: COOKS EQUIPMENT REPAIR
Actual: Facility address: 270 MAIN ST
23 ft. BOURNE, MA 02532

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOKS EQUIPMENT REPAIR (Continued)

1000272214

EPA ID: MAD981897838
Contact: MICHAEL COOK
Contact address: 270 MAIN ST
BUZZARDS BAY, MA 02532
Contact country: US
Contact telephone: (508) 888-0789
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: MICHAEL COOK
Owner/operator address: 270 MAIN ST
BUZZARDS BAY, MA 02532
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOKS EQUIPMENT REPAIR (Continued)

1000272214

OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003474749

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

**A7
SSE
1/8-1/4
0.230 mi.
1214 ft.**

**TIMBERLINE EQUIPMENT INC
270 MAIN ST
BOURNE, MA 02532**

**RCRA NonGen / NLR 1000162719
FINDS MAD037692761**

Site 5 of 5 in cluster A

**Relative:
Higher**

RCRA NonGen / NLR:

Date form received by agency: 09/21/1987
Facility name: TIMBERLINE EQUIPMENT INC
Facility address: 270 MAIN ST
BOURNE, MA 02532
EPA ID: MAD037692761
Contact: ERIC LONG
Contact address: 270 MAIN ST
BUZZARDS BAY, MA 02532

**Actual:
23 ft.**

Contact country: US
Contact telephone: (508) 759-4310
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: TIMBERLINE EQUIPMENT INC
Owner/operator address: 270 MAIN ST
BUZZARDS BAY, MA 02532
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TIMBERLINE EQUIPMENT INC (Continued)

1000162719

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003431126

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

B8
SE
1/8-1/4
0.230 mi.
1215 ft.

275 MAIN ST
BUZZARDS BAY, MA 02532
Site 3 of 4 in cluster B

EDR US Hist Auto Stat 1015382834
N/A

Relative:
Higher

EDR Historical Auto Stations:
Name: DOUGLAS AUTOMOBILE PARTS
Year: 2012
Address: 275 MAIN ST

Actual:
23 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B9
SE
1/8-1/4
0.233 mi.
1230 ft.

279 MAIN ST
BUZZARDS BAY, MA 02532

Site 4 of 4 in cluster B

EDR US Hist Auto Stat **1015384768**
N/A

Relative:
Higher

EDR Historical Auto Stations:

Name: TOTAL AUTO CONCEPTS
Year: 2006
Address: 279 MAIN ST

Actual:
24 ft.

C10
SSE
1/8-1/4
0.234 mi.
1234 ft.

BUZZARD BAY MOBIL
246 MAIN ST
BOURNE, MA 02532

Site 1 of 2 in cluster C

SHWS **S101046382**
LUST **N/A**
RELEASE
SPILLS

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0022638 / Response Action Outcome
Release Town: BOURNE
Notification Date: 05/29/2010
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 04/02/2013
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Actual:
20 ft.

Oil Or Haz Material: Oil

Location Type: COMMERCIAL

Source: LINE

Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE
Quantity: 8 gallons

Actions:

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 10/18/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 10/18/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Status: RMRINT
Action Date: 3/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 4/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 4/5/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/5/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Release or TOR Less than Reporting Requirement
Action Date: 5/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/10/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/10/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 6/15/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 6/15/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MAP FINDINGS

BUZZARD BAY MOBIL (Continued)

S101046382

reduced to background.

Action Type: Tier Classification
 Action Status: Transmittal, Notice, or Notification Received
 Action Date: 6/7/2011
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
 Action Status: Tier 2 Classification
 Action Date: 6/7/2011
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
 Action Status: Completion Statement Received
 Action Date: 6/7/2011
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
 Action Status: Transmittal, Notice, or Notification Received
 Action Date: 7/28/2010
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
 Action Status: Written Plan Received
 Action Date: 7/28/2010
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
 Action Status: Level I - Technical Screen Audit
 Action Date: 8/2/2010
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
 Action Status: RMRINT
 Action Date: 9/25/2012
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
 Action Status: Status or Interim Report Received
 Action Date: 9/25/2012
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
 Action Status: RMRINI
 Action Date: 9/27/2010
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Status: Status or Interim Report Received
Action Date: 9/27/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 9/30/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/30/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status: 4-0018009 / Response Action Outcome Not Required
Release Town: BOURNE
Notification Date: 09/05/2003
Category: 72 HR
Associated ID: 4-0001334
Current Status: Response Action Outcome Not Required
Status Date: 09/10/2004
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material
Location Type: COMMERCIAL
Location Type: RESIDENTIAL
Source: UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Chemicals:
Chemical: MTBE
Quantity: 40000 parts per billion

Actions:
Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 1/21/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 1/22/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 10/20/1997
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Date:	11/26/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	11/26/2003
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/5/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	2/18/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	2/22/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	5/12/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	5/12/1999
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	8/9/2004
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	9/10/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	9/10/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	9/10/2004
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	9/23/2003
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/5/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/5/2003
Response Action Outcome: Not reported

LUST:

Facility:

Release Tracking Number/Current Status: 4-0022638 / Response Action Outcome
Status Date: 04/02/2013
Source Type: UST
Release Town: BOURNE
Notification Date: 05/29/2010
Category: TWO HR
Associated ID: Not reported
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: LINE
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE
Quantity: 8 gallons

Actions:

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 10/18/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 10/18/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	3/28/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	4/2/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	4/2/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	4/5/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	4/5/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Release or TOR Less than Reporting Requirement
Action Date:	5/29/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	6/10/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/10/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/15/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	6/15/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/7/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 6/7/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 6/7/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/28/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/28/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/2/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 9/25/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/25/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 9/27/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/27/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 9/30/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/30/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0018009 / Response Action Outcome Not Required
Primary ID: 4-0001334
Official City: BOURNE
Notification: 09/05/2003
Category: 72 HR
Status Date: 09/10/2004
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Release Tracking Number/Current Status: 4-0022638 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 05/29/2010
Category: TWO HR
Status Date: 04/02/2013
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

MA Spills:

Facility ID:	4-6019	Spill ID:	S93-0192
Staff Lead:	BRENNAN, S	Date Entered:	19940315
Last Entered:	19940315	First Response:	19930326
Spill Date:	19930319	Spill Time:	Not reported
Report Date:	19930326	Report Time:	11:30AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARD BAY MOBIL (Continued)

S101046382

Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	-----
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	-----	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	JEFF FORD/M&E		
Notif Tel:	Not reported		
Days/Close:	0		

C11
SSE
1/8-1/4
0.234 mi.
1234 ft.

BOURNE SHELL
246 MAIN ST
BUZZARDS BAY, MA 02532
Site 2 of 2 in cluster C

SHWS U001004395
UST N/A
RELEASE
Financial Assurance

Relative:
Lower

SHWS:
Release Tracking Number/Current Status: 4-0001334 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Actual:
20 ft.

Release Town: BOURNE
Notification Date: 10/01/1993
Category: NONE
Associated ID: 4-0001334
Current Status:

Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Status Date: 05/12/1999
Phase: PHASE V
Response Action Outcome: -
Oil Or Haz Material: Not reported
Location Type: GASSTATION

[Click here to access the MA DEP site for this facility:](#)

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 1/21/2005
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Date:	10/1/1993
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	10/16/2001
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/16/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	10/17/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	10/20/1997
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	10/24/2002
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	10/25/2000
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	10/31/1996
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	10/31/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/31/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	10/31/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	10/31/2007
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	10/31/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	10/5/2006
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	10/5/2006
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/5/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	10/5/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	10/5/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	11/7/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	12/17/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	12/17/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	12/17/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/17/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Date:	12/17/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/18/2003
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Level II - Audit Inspection
Action Date:	12/31/2002
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	12/31/2002
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	2/1/2000
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	2/1/2000
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	2/1/2000
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/10/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	2/10/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	2/10/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	2/10/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	2/10/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	2/14/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	2/14/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	2/14/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	2/14/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/14/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/23/1999
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Date:	3/15/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/15/2012
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	3/15/2012
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	3/15/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	3/15/2012
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	3/16/1994
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	3/25/2013
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	3/25/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/25/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	3/25/2013
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	3/25/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	4/17/2001
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 4/17/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/19/2000
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 4/20/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/20/2006
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVSIG
Action Date: 4/22/1994
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/25/2002
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 4/25/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 5/11/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/12/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVACC
Action Date: 5/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 5/12/1999
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Date:	5/22/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	5/22/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	5/22/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/22/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	5/22/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	5/30/2003
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	5/7/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	5/7/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	5/7/2007
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	5/8/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/8/2007
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	5/8/2007
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	7/21/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	7/21/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	7/21/2009
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	7/21/2009
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	7/21/2009
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVREC
Action Date:	7/27/1993
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/12/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	8/12/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	8/12/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	8/12/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	8/12/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Action Date: 8/20/1999
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 8/26/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 9/10/2004
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 9/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 9/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 9/17/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 9/17/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/17/2012
Response Action Outcome: Not reported

UST:

Facility:

Facility ID: 1185
Owner Id: 9883
Owner: NOURIA ENERGY CORP
Owner Address: 326 CLARK ST
Owner City,St,Zip: WORCESTER, MA 01606
Telephone: (508) 762-3727
Description: Gas Station
Fire Dept. ID: 1036
Date of Inspection: 06/21/2010

Tank ID: 1
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Date Installed: 06/01/1978
Capacity: 10250
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 2
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 06/01/1974
Capacity: 8000
Contents: Diesel
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 3
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 06/01/1974
Capacity: 4000
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 4
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 06/01/1974
Capacity: 3000
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 5
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 06/01/1974
Capacity: 2000
Contents: Kerosene
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Steel
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 6
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 07/24/1992
Capacity: 12000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Tank ID: 7
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 07/24/1992
Capacity: 12000
Contents: Diesel
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SHELL (Continued)

U001004395

Tank ID: 8
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 07/24/1992
Capacity: 8000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Tank ID: 9
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 07/24/1992
Capacity: 8000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Release:
Release Tracking Number/Current Status: 4-0001334 / TIERII
Primary ID: 4-0001334
Official City: BOURNE
Notification: 10/01/1993
Category: NONE
Status Date: 05/12/1999
Phase: PHASE V
Response Action Outcome: -
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

MA Financial Assurance 2:
Facility Id: 1185
Description: Gas Station
Work Phone: (508) 762-3727

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

D12
SE
1/8-1/4
0.238 mi.
1258 ft.

282 MAIN ST
BUZZARDS BAY, MA 02532

EDR US Hist Auto Stat 1015387766
N/A

Site 1 of 2 in cluster D

Relative:
Higher

EDR Historical Auto Stations:

Name: BOURNE SUNOCO
Year: 2010
Address: 282 MAIN ST

Actual:
26 ft.

D13
SE
1/8-1/4
0.238 mi.
1258 ft.

BOURNE SUNOCO 0014-3347
282 MAIN ST
BUZZARDS BAY, MA 02532

UST U003531097
Financial Assurance N/A

Site 2 of 2 in cluster D

Relative:
Higher

UST:

Facility:

Facility ID: 1172
Owner Id: 14839
Owner: BOURNE REALTY TRUST
Owner Address: 414 W GROVE ST
Owner City,St,Zip: MIDDLEBORO, MA 02346
Telephone: (508) 947-7685
Description: Gas Station
Fire Dept. ID: 1036
Date of Inspection: 04/12/2013

Actual:
26 ft.

Tank ID: 1
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/16/1972
Capacity: 1000
Contents: Waste Oil
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 2
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/16/1972
Capacity: 6000
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SUNOCO 0014-3347 (Continued)

U003531097

Pipe Container: Not reported
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 3
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/16/1972
Capacity: 6000
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 4
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/16/1972
Capacity: 6000
Contents: Gasoline
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Inventory Record-Keeping
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 5
Serial Number: Not reported
Tank Status: Removed
Status Date: 07/30/2003
Date Installed: 04/10/1992
Capacity: 12000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Tank ID: 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE SUNOCO 0014-3347 (Continued)

U003531097

Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 04/10/1992
Capacity: 12000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Flexible
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

Tank ID: 7
Serial Number: Split 5K/5K
Tank Status: In Use
Status Date: Not reported
Date Installed: 07/30/2003
Capacity: 10000
Contents: Gasoline/D
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Above Ground: No

MA Financial Assurance 2:

Facility Id: 1172
Description: Gas Station
Work Phone: (508) 947-7685

E14
South
1/4-1/2
0.251 mi.
1326 ft.

BOURNE COMMUNITY BLDG
229-239 MAIN ST
BOURNE, MA 02532
Site 1 of 4 in cluster E

LUST **S105521662**
RELEASE **N/A**

Relative:
Lower

LUST:

Facility:

Actual:
21 ft.

Release Tracking Number/Current Status: 4-0016962 / Response Action Outcome Not Required
Status Date: 04/05/2002
Source Type: UST
Release Town: BOURNE
Notification Date: 03/22/2002
Category: 72 HR
Associated ID: 4-0016075
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: MUNICIPAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE COMMUNITY BLDG (Continued)

S105521662

Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: PETROLEUM
Quantity: 100 parts per million

Actions:

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/22/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/22/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 4/5/2002
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/5/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 4/5/2002
Response Action Outcome: Not reported

Release:

Release Tracking Number/Current Status: 4-0016962 / Response Action Outcome Not Required
Primary ID: 4-0016075
Official City: BOURNE
Notification: 03/22/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE COMMUNITY BLDG (Continued)

S105521662

Category: 72 HR
Status Date: 04/05/2002
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

E15
South
1/4-1/2
0.251 mi.
1326 ft.

PHILS AUTO FMR
229 MAIN ST
BOURNE, MA 02532
Site 2 of 4 in cluster E

LUST **S105125170**
RELEASE **N/A**

Relative:
Lower

LUST:

Facility:

Actual:
21 ft.

Release Tracking Number/Current Status: 4-0016216 / Response Action Outcome Not Required
Status Date: 01/23/2002
Source Type: UST
Release Town: BOURNE
Notification Date: 04/23/2001
Category: 72 HR
Associated ID: 4-0016075
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE
Quantity: .5 inches

Actions:

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILS AUTO FMR (Continued)

S105125170

Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/23/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 4/23/2001
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/14/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/7/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 8/20/2001
Response Action Outcome: Not reported

Release:

Release Tracking Number/Current Status: 4-0016216 / Response Action Outcome Not Required
Primary ID: 4-0016075
Official City: BOURNE
Notification: 04/23/2001
Category: 72 HR
Status Date: 01/23/2002
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

E16
South
1/4-1/2
0.251 mi.
1326 ft.

PHILS AUTO SERVICE INC
229 MAIN ST
BUZZARDS BAY, MA 02532

Site 3 of 4 in cluster E

SHWS S106513358
RELEASE N/A
HW GEN

Relative:
Lower

SHWS:

Actual:
21 ft.

Release Tracking Number/Current Status: 4-0016075 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILS AUTO SERVICE INC (Continued)

S106513358

Release Town: BOURNE
Notification Date: 02/21/2001
Category: 120 DY
Associated ID: 4-0016075
Current Status: **Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date: 01/23/2002
Phase: PHASE IV
Response Action Outcome: -
Oil Or Haz Material: Oil

[Click here to access the MA DEP site for this facility:](#)

Chemicals:
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 139 parts per million
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 23.9 parts per million

Actions:

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 1/11/2002
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 1/11/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 1/23/2002
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 10/24/2006
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILS AUTO SERVICE INC (Continued)

S106513358

Action Date: 2/21/2001
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/21/2001
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 4/12/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/3/2001
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 4/5/2002
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/5/2002
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/5/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 8/20/2001
Response Action Outcome: Not reported

Release:

Release Tracking Number/Current Status: 4-0016075 / TIERII
Primary ID: 4-0016075
Official City: BOURNE
Notification: 02/21/2001
Category: 120 DY
Status Date: 01/23/2002
Phase: PHASE IV
Response Action Outcome: -
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

HW GEN:

EPA Id: MAD097448310
RCRA Generator Status: VSQG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILS AUTO SERVICE INC (Continued)

S106513358

State Generator Status: Not reported

17
SE
1/4-1/2
0.252 mi.
1332 ft.

SUNOCO SERVICE STATION
298 MAIN ST
BOURNE, MA 02532

LUST **S100537330**
RELEASE **N/A**

Relative:
Higher

LUST:

Facility:

Actual:
29 ft.

Release Tracking Number/Current Status: 4-0001180 / Response Action Outcome
Status Date: 11/29/2002
Source Type: UST
Release Town: BOURNE
Notification Date: 10/15/1992
Category: NONE
Associated ID: Not reported
Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: GASSTATION
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: PETROLEUM
Quantity: Not reported

Actions:

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/15/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 10/24/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 11/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNOCO SERVICE STATION (Continued)

S100537330

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 2/3/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 2/6/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/6/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 2/6/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 3/5/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 8/2/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0001180 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 10/15/1992
Category: NONE
Status Date: 11/29/2002
Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E18
South
1/4-1/2
0.254 mi.
1340 ft.

NEXT TO BETTY ANNS
227 MAIN ST
BOURNE, MA 02532
Site 4 of 4 in cluster E

SHWS **S102967618**
RELEASE **N/A**
LEAD

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0013325 / Response Action Outcome

Release Town: BOURNE

Notification Date: 09/02/1997

Category: TWO HR

Associated ID: Not reported

Current Status: **Response Action Outcome**

Status Date: 08/28/2002

Phase: Not reported

Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.

Oil Or Haz Material: Oil

Location Type: RESIDENTIAL

Source: PIPE

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: FUEL OIL

Quantity: 250 gallons

Chemical: FUEL OIL

Quantity: 200 gallons

Actions:

Action Type: Compliance and Enforcement Action

Action Status: Notice of Non-Compliance Issued

Action Date: 1/30/1998

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)

Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)

Action Date: 10/1/1997

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)

Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)

Action Date: 10/16/1997

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO

Action Status: Fee Received - FMCRA Use Only

Action Date: 11/15/2001

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF

Action Status: Reportable Release under MGL 21E

Action Date: 11/3/1997

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEXT TO BETTY ANNS (Continued)

S102967618

Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 12/4/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/28/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 9/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 9/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 9/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 9/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 9/22/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/22/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEXT TO BETTY ANNS (Continued)

S102967618

Action Status: FOLOFF
Action Date: 9/3/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Release Tracking Number/Current Status: 4-0013325 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 09/02/1997
Category: TWO HR
Status Date: 08/28/2002
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

LEAD:

Community: Buzzards Bay
Unit: Not reported
Inspector Name: Stephen Cook
Inspector License Number: 1189
Activity Type: INSPECT
Activity Date: 03/20/2002
Start Work Date: Not reported
Activity Descriptions: Determination
Outcomes: Hazards Found

19
SE
1/4-1/2
0.311 mi.
1640 ft.

**NO LOCATION AID
11 PERRY AVE
BOURNE, MA 02532**

**SHWS S104546198
LUST N/A
RELEASE**

**Relative:
Higher**

SHWS:

**Actual:
27 ft.**

Release Tracking Number/Current Status: 4-0010292 / Response Action Outcome
Release Town: BOURNE
Notification Date: 02/22/1994
Category: TWO HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 06/05/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Location Type: INDUSTRIAL
Source: UST
Source: PIPE

[Click here to access the MA DEP site for this facility:](#)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104546198

Chemicals:

Chemical: #2 FUEL OIL
Quantity: 40 gallons
Chemical: #2 FUEL OIL
Quantity: 100 gallons

Actions:

Action Type: RLFA
Action Status: FOLFLD
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 2/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104546198

Action Date: 6/5/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/5/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Release Tracking Number/Current Status: 4-0010292 / Response Action Outcome
Status Date: 06/05/1995
Source Type: UST
Release Town: BOURNE
Notification Date: 02/22/1994
Category: TWO HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Location Type: INDUSTRIAL
Source: UST
Source: PIPE

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: #2 FUEL OIL
Quantity: 40 gallons
Chemical: #2 FUEL OIL
Quantity: 100 gallons

Actions:

Action Type: RLFA
Action Status: FOLFLD
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 2/22/1994

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104546198

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 2/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/5/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/5/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:

Release Tracking Number/Current Status: 4-0010351 / Response Action Outcome
Status Date: 03/31/1995
Source Type: UST
Release Town: BOURNE
Notification Date: 03/28/1994
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104546198

Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: #2 FUEL OIL
Quantity: Not reported
Chemical: DIESEL FUEL
Quantity: 24 inches
Chemical: FUEL OIL
Quantity: Not reported

Actions:

Action Type: RLFA
Action Status: FLDRAN
Action Date: 3/16/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/28/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/28/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 3/29/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/31/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/31/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/31/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S104546198

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 5/31/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/31/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0010292 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 02/22/1994
Category: TWO HR
Status Date: 06/05/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 4-0010351 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 03/28/1994
Category: 72 HR
Status Date: 03/31/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

20
East
1/4-1/2
0.355 mi.
1874 ft.

NO LOCATION AID
101 MAPLE ST
BOURNE, MA 02532

SHWS S106863399
RELEASE N/A

Relative:
Higher

SHWS:

Release Tracking Number/Current Status: 4-0018871 / Response Action Outcome
Release Town: BOURNE
Notification Date: 01/13/2005
Category: TWO HR
Associated ID: Not reported

Actual:
40 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S106863399

Current Status:	Response Action Outcome
Status Date:	03/16/2005
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	ROADWAY
Source:	VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	DIESEL FUEL
Quantity:	20 gallons

Actions:

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	1/13/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/13/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	1/14/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	1/28/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	2/3/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/16/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	3/22/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S106863399

reduced to background.

Release:

Release Tracking Number/Current Status: 4-0018871 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 01/13/2005
Category: TWO HR
Status Date: 03/16/2005
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

F21
SSW
1/4-1/2
0.383 mi.
2022 ft.

BOURNE POLICE HQ
175 MAIN ST
BOURNE, MA 02532
Site 1 of 2 in cluster F

SHWS S104546196
LUST N/A
RELEASE

Relative:
Lower

SHWS:

Actual:
12 ft.

Release Tracking Number/Current Status: 4-0010342 / Response Action Outcome
Release Town: BOURNE
Notification Date: 03/15/1994
Category: 72 HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 01/07/1997
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: MUNICIPAL
Source: 30 YRS OLD
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: GASOLINE
Quantity: Not reported

Actions:

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 1/7/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 3/14/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE POLICE HQ (Continued)

S104546196

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 3/14/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/14/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/16/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/18/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/6/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Release Tracking Number/Current Status: 4-0010342 / Response Action Outcome
Status Date: 01/07/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE POLICE HQ (Continued)

S104546196

Source Type: UST
Release Town: BOURNE
Notification Date: 03/15/1994
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: MUNICIPAL
Source: 30 YRS OLD
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:
Chemical: GASOLINE
Quantity: Not reported

Actions:
Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 1/7/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 3/14/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 3/14/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/14/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE POLICE HQ (Continued)

S104546196

reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 3/16/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/18/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/6/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0010342 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 03/15/1994
Category: 72 HR
Status Date: 01/07/1997
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

F22
SSW
1/4-1/2
0.384 mi.
2025 ft.

BUZZARDS BAY GARAGE INC
174 MAIN ST
BUZZARDS BAY, MA 02532
Site 2 of 2 in cluster F

LUST **U002008160**
UST **N/A**
RELEASE
Financial Assurance

Relative:
Lower

LUST:

Facility:

Actual:
13 ft.

Release Tracking Number/Current Status: 4-0021068 / Response Action Outcome
Status Date: 10/05/2010
Source Type: UST
Release Town: BOURNE
Notification Date: 02/13/2008
Category: 72 HR
Associated ID: 4-0021068

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY GARAGE INC (Continued)

U002008160

Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil and Hazardous Material
Location Type: RESIDENTIAL
Location Type: COMMERCIAL
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 1340 micrograms per liter
Chemical: 1,3,5-TRIMETHYL BENZENE
Quantity: 1190 micrograms per liter
Chemical: 1,3,5-TRIMETHYL BENZENE
Quantity: 28300 micrograms per gallon
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 14100 micrograms per liter
Chemical: NAPHTHALENE
Quantity: 19400 micrograms per gallon
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 145 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 251 milligrams per liter
Chemical: 2-METHYLNAPHTHALENE
Quantity: 20.1 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 6680 micrograms per liter
Chemical: NAPHTHALENE
Quantity: 9.47 milligrams per kilogram
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 2650 micrograms per liter

Actions:

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/23/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 10/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY GARAGE INC (Continued)

U002008160

Action Status: Status or Interim Report Received
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 2/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/13/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 2/20/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY GARAGE INC (Continued)

U002008160

reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 2/9/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 3/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 4/14/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 5/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 5/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 6/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 9/3/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/3/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:

Facility:

Facility ID: 1170
Owner Id: 954
Owner: BUZZARDS BAY GARAGE INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY GARAGE INC (Continued)

U002008160

Owner Address: 174 MAIN ST
Owner City,St,Zip: BOURNE, MA 02532
Telephone: (617) 759-7313
Description: Other
Fire Dept. ID: 1036
Date of Inspection: Not reported

Tank ID: 1
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/01/1981
Capacity: 1000
Contents: Unknown
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 2
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/01/1981
Capacity: 2000
Contents: Unknown
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 3
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/01/1973
Capacity: 125
Contents: Waste Oil
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Above Ground: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BUZZARDS BAY GARAGE INC (Continued)

U002008160

Tank ID: 4
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 05/01/1973
Capacity: 125
Contents: Waste Oil
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Above Ground: No

Release:

Release Tracking Number/Current Status: 4-0021068 / Response Action Outcome
Primary ID: 4-0021068
Official City: BOURNE
Notification: 02/13/2008
Category: 72 HR
Status Date: 10/05/2010
Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

MA Financial Assurance 2:

Facility Id: 1170
Description: Other
Work Phone: (617) 759-7313

23
SSW
1/4-1/2
0.406 mi.
2145 ft.

NO LOCATION AID
42 HOLT RD
BUZZARDS BAY, MA

SHWS S106513400
RELEASE N/A

Relative:
Lower

SHWS:

Actual:
16 ft.

Release Tracking Number/Current Status: 4-0016701 / Response Action Outcome
Release Town: BOURNE
Notification Date: 10/24/2001
Category: TWO HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 12/31/2001
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Not reported
Location Type: ROADWAY
Source: VEHICLE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S106513400

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: TRIMETHYLBENZENE
Quantity: 25 gallons

Actions:

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/24/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/24/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 11/1/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/20/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/31/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 8/1/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0016701 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 10/24/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S106513400

Category: TWO HR
Status Date: 12/31/2001
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

24
East
1/4-1/2
0.452 mi.
2389 ft.

IHOP RESTAURANT
2 BOURNE ROTARY
BOURNE, MA 02532

SHWS S103546581
LUST N/A
RELEASE

Relative:
Higher

SHWS:

Release Tracking Number/Current Status: 4-0010698 / Downgradient Property Status
Release Town: BOURNE
Notification Date: 08/22/1994
Category: 120 DY
Associated ID: Not reported
Current Status: Downgradient Property Status
Status Date: 06/17/1998
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material
Location Type: COMMERCIAL
Source: OFFSITE
Source: UST
Source: UNKNOWN

Actual:
28 ft.

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: BENZENE
Quantity: 640 parts per billion
Chemical: ETHYLBENZENE
Quantity: 2500 parts per billion
Chemical: MTBE
Quantity: 80000 parts per billion
Chemical: BENZENE
Quantity: 640 micrograms per liter
Chemical: TOLUENE
Quantity: 23000 parts per billion
Chemical: XYLENE
Quantity: 12700 parts per billion

Actions:

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 1/25/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/4/1994

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IHOP RESTAURANT (Continued)

S103546581

Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/6/1994
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/15/1994
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/17/1998
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/23/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/1994
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/1994
Response Action Outcome: Not reported

LUST:

Facility:

Release Tracking Number/Current Status: 4-0010698 / Downgradient Property Status
Status Date: 06/17/1998
Source Type: UST
Release Town: BOURNE
Notification Date: 08/22/1994
Category: 120 DY
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material

Location Type: COMMERCIAL
Source: OFFSITE
Source: UST
Source: UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IHOP RESTAURANT (Continued)

S103546581

Chemicals:

Chemical: BENZENE
Quantity: 640 parts per billion
Chemical: ETHYLBENZENE
Quantity: 2500 parts per billion
Chemical: MTBE
Quantity: 80000 parts per billion
Chemical: BENZENE
Quantity: 640 micrograms per liter
Chemical: TOLUENE
Quantity: 23000 parts per billion
Chemical: XYLENE
Quantity: 12700 parts per billion

Actions:

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 1/25/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/4/1994
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/6/1994
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/15/1994
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/17/1998
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/23/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/1994
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/1994
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IHOP RESTAURANT (Continued)

S103546581

Release:

Release Tracking Number/Current Status: 4-0010698 / Downgradient Property Status
Primary ID: Not reported
Official City: BOURNE
Notification: 08/22/1994
Category: 120 DY
Status Date: 06/17/1998
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

25
SSW
1/4-1/2
0.477 mi.
2518 ft.

**FORMER CANAL VIEW AUTO
2 AND 6 CANAL VIEW RD
BUZZARDS BAY, MA**

**SHWS S106513465
RELEASE N/A**

**Relative:
Lower**

SHWS:

Release Tracking Number/Current Status: 4-0018050 / Response Action Outcome
Release Town: BOURNE
Notification Date: 10/02/2003
Category: 120 DY
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 10/05/2004
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 3230 parts per million
Chemical: 2-METHYLNAPHTHALENE
Quantity: 82.5 parts per million
Chemical: NAPHTHALENE
Quantity: 351 parts per million
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 9020 parts per million

Actions:

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/2/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/2/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER CANAL VIEW AUTO (Continued)

S106513465

reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/5/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/7/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: RFI
Action Date: 11/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 11/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 11/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 7/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/17/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER CANAL VIEW AUTO (Continued)

S106513465

Release:

Release Tracking Number/Current Status: 4-0018050 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 10/02/2003
Category: 120 DY
Status Date: 10/05/2004
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

26
East
1/4-1/2
0.486 mi.
2565 ft.

BOURNE EXXON STATION 3 5693
RTE 6 ROTARY
BOURNE, MA 02532

LUST **S102088891**
RELEASE **N/A**

Relative:
Higher

LUST:

Facility:

Actual:
25 ft.

Release Tracking Number/Current Status: 4-0000335 / Response Action Outcome
Status Date: 11/30/2011
Source Type: UST
Release Town: BOURNE
Notification Date: 01/15/1987
Category: NONE
Associated ID: Not reported
Phase: PHASE V
Response Action Outcome: C1 - C1
Oil Or Haz Material: Not reported

Location Type: GASSTATION
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: UNKNOWN
Quantity: Not reported

Actions:

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 1/30/2012
Response Action Outcome: C1

Action Type: RLFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Action Status:	FLDRUN
Action Date:	1/31/2012
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/11/2001
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/15/2009
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	10/15/2009
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/18/2007
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	10/18/2011
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/18/2011
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/19/2010
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	10/19/2010
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/24/2003
Response Action Outcome:	C1
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	10/27/2005
Response Action Outcome:	C1
Action Type:	Phase 3
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/27/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: Submittal Retracted
Action Date: 10/27/2005
Response Action Outcome: C1

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 10/27/2006
Response Action Outcome: C1

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 10/28/2004
Response Action Outcome: C1

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 10/29/2008
Response Action Outcome: C1

Action Type: Phase 5
Action Status: RMRINT
Action Date: 10/29/2008
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 11/28/2012
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 11/28/2012
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/30/2011
Response Action Outcome: C1

Action Type: Phase 5
Action Status: RMRFIN
Action Date: 11/30/2011
Response Action Outcome: C1

Action Type: Phase 5
Action Status: Action Status or AUL Terminated
Action Date: 11/30/2011
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: NORA
Action Date: 12/27/1984
Response Action Outcome: C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	12/4/1996
Response Action Outcome:	C1
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	12/4/1996
Response Action Outcome:	C1
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	2/20/1997
Response Action Outcome:	C1
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	2/21/2007
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Level II - Audit Inspection
Action Date:	2/22/2008
Response Action Outcome:	C1
Action Type:	TREGS
Action Status:	WAVREC
Action Date:	2/25/1991
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	2/3/2000
Response Action Outcome:	C1
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	2/3/2000
Response Action Outcome:	C1
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	3/21/1990
Response Action Outcome:	C1
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	3/6/1999
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	4/17/2009
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Action Date:	4/17/2009
Response Action Outcome:	C1
Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	4/18/1991
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Submittal Received
Action Date:	4/19/2007
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	4/19/2007
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	4/20/2011
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	4/20/2011
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	4/22/2008
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	4/22/2008
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	4/26/2010
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	4/26/2010
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/29/2002
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/29/2003
Response Action Outcome:	C1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/30/1996
Response Action Outcome:	C1
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/7/2004
Response Action Outcome:	C1
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	5/1/1991
Response Action Outcome:	C1
Action Type:	TREGS
Action Status:	WAVACC
Action Date:	5/1/1991
Response Action Outcome:	C1
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	5/1/1996
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/1/1997
Response Action Outcome:	C1
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	5/1/2006
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	Periodic Review Opinion Evaluating Temp Solution
Action Date:	5/16/2002
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	5/23/2012
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINI
Action Date:	5/23/2012
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	5/30/2013
Response Action Outcome:	C1
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOURNE EXXON STATION 3 5693 (Continued)

S102088891

Action Date: 5/30/2013
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/31/1996
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/14/1997
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/19/2002
Response Action Outcome: C1

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 9/15/1998
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/15/1998
Response Action Outcome: C1

Release:

Release Tracking Number/Current Status: 4-0000335 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 01/15/1987
Category: NONE
Status Date: 11/30/2011
Phase: PHASE V
Response Action Outcome: C1 - C1
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

27
SSW
1/2-1
0.516 mi.
2725 ft.

GROSSMANS FMR
120 MAIN ST
BOURNE, MA 02532

SHWS S105043536
LUST N/A
LAST
RELEASE

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0001348 / Response Action Outcome Not Required
Release Town: BOURNE
Notification Date: 10/01/1993
Category: NONE
Associated ID: 4-0010373
Current Status: Response Action Outcome Not Required
Status Date: 02/12/2008

Actual:
13 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Phase: PHASE III
Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: FORMER
Location Type: TANK FARM
Source: UST
Source: UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: PETROLEUM
Quantity: Not reported

Actions:

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/1/1993
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 12/14/1995
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/16/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 2/12/2008
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 2/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 2/21/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 2/21/2003
Response Action Outcome: Not reported

Action Type: Tier Classification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Status:	Tier 2 Classification
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Level III - Comprehensive Audit
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	3/3/2003
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/20/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/27/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	8/31/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Response Action Outcome: Not reported

Release Tracking Number/Current Status: 4-0010373 / Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Release Town: BOURNE
Notification Date: 04/01/1994
Category: 72 HR
Associated ID: 4-0010373

Current Status: Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

Status Date: 02/21/2003
Phase: PHASE IV
Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: AST
Source: PIPE
Source: UST
Source: UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 50 parts per million
Chemical: PETROLEUM
Quantity: 60 parts per million

Actions:
Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 12/14/1995
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Date:	12/16/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	2/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Level III - Comprehensive Audit
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	3/3/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/1/1994
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/27/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	5/2/1995
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NOA
Action Date:	5/26/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	6/13/1995
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Date: 8/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/31/2007
Response Action Outcome: Not reported

Action Type: BWS10
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

LUST:

Facility:

Release Tracking Number/Current Status: 4-0001348 / Response Action Outcome Not Required
Status Date: 02/12/2008
Source Type: UST
Release Town: BOURNE
Notification Date: 10/01/1993
Category: NONE
Associated ID: 4-0010373
Phase: PHASE III
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: FORMER
Location Type: TANK FARM
Source: UST
Source: UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: PETROLEUM
Quantity: Not reported

Actions:

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/1/1993
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 12/14/1995
Response Action Outcome: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	12/16/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	2/12/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	2/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Level III - Comprehensive Audit
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	3/3/2003
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	4/20/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/27/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	8/31/2007
Response Action Outcome:	Not reported

Facility:

Release Tracking Number/Current Status:	4-0010373 / TIERII
Status Date:	02/21/2003
Source Type:	UST
Release Town:	BOURNE
Notification Date:	04/01/1994
Category:	72 HR
Associated ID:	4-0010373
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Oil

Location Type:	COMMERCIAL
Source:	AST
Source:	PIPE
Source:	UST
Source:	UNKNOWN

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	50 parts per million
Chemical:	PETROLEUM
Quantity:	60 parts per million

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Actions:

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 12/14/1995
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/16/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 2/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 2/21/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 2/21/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 2/21/2003
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 3/16/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Level III - Comprehensive Audit
Action Date: 3/16/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 3/2/2006
Response Action Outcome: Not reported

Action Type: Tier Classification

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Status:	Legal Notice Published
Action Date:	3/3/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	4/27/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	5/2/1995
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NOA
Action Date:	5/26/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/28/2004

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/31/1994
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/31/1994
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/13/1995
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 8/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/31/2007
Response Action Outcome: Not reported

Action Type: BWS10
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

LAST:

Release Tracking Number/Current Status: 4-0010373 / TIERII
Source Type: AST
Release Town: BOURNE
Notification Date: 04/01/1994
Category: 72 HR
Associated ID: 4-0010373
Status Date: 02/21/2003
Phase: PHASE IV
Response Action Outcome: -
Oil Or Haz Material: Oil

Chemicals:

Chemical: #2 FUEL OIL
Quantity: 50 parts per million
Chemical: PETROLEUM
Quantity: 60 parts per million
Location Type: COMMERCIAL
Source: AST
Source: PIPE
Source: UST
Source: UNKNOWN

Actions:

Action Type: Compliance and Enforcement Action

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Status:	Notice of Non-Compliance Issued
Action Date:	11/14/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/15/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	12/14/1995
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	12/16/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	2/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/21/2003
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Level III - Comprehensive Audit
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	3/3/2003

Map ID
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Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/1/1994
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/27/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	4/5/1995
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	5/2/1995
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NOA
Action Date:	5/26/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	5/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/28/2004
Response Action Outcome:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	5/31/1994
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	6/13/1995
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	8/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	8/31/2007
Response Action Outcome:	Not reported
Action Type:	BWS10
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	4-0001348 / Response Action Outcome Not Required
Primary ID:	4-0010373
Official City:	BOURNE
Notification:	10/01/1993
Category:	NONE
Status Date:	02/12/2008
Phase:	PHASE III
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	4-0010373 / TIERII
Primary ID:	4-0010373
Official City:	BOURNE
Notification:	04/01/1994
Category:	72 HR
Status Date:	02/21/2003
Phase:	PHASE IV
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROSSMANS FMR (Continued)

S105043536

[Click here to access the MA DEP site for this facility:](#)

28
East
1/2-1
0.635 mi.
3353 ft.

NO LOCATION AID
SCENIC HWY
BOURNE, MA 02532

SHWS **S103812434**
RELEASE **N/A**

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0012165 / No Further Action (DEP Determined)
Release Town: BOURNE
Notification Date: 05/10/1996
Category: TWO HR
Associated ID: Not reported
Current Status: No Further Action (DEP Determined)
Status Date: 08/26/2008
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: ROADWAY

Actual:
21 ft.

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: DIESEL FUEL
Quantity: 100 gallons

Actions:

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 10/23/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action - DEP Lead
Action Status: Work Started
Action Date: 5/10/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/10/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLFLD
Action Date: 5/11/1996
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 5/15/1996
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 8/11/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S103812434

Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: DEP NFA
Action Date: 8/26/2008
Response Action Outcome: Not reported

Release:

Release Tracking Number/Current Status: 4-0012165 / DEP No Further Action
Primary ID: Not reported
Official City: BOURNE
Notification: 05/10/1996
Category: TWO HR
Status Date: 08/26/2008
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

29
West
1/2-1
0.772 mi.
4077 ft.

PROPERTY
9 WALLACE POINT RD
BOURNE, MA 02532

SHWS **S101044508**
RELEASE **N/A**
SPILLS

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0006004 / Response Action Outcome
Release Town: BOURNE
Notification Date: 10/01/1993
Category: NONE
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 10/24/1994
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Not reported

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: UNKNOWN
Quantity: Not reported

Actions:

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/1/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S101044508

Action Date: 10/24/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 10/24/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/17/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0006004 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 10/01/1993
Category: NONE
Status Date: 10/24/1994
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

MA Spills:

Facility ID:	9-9999	Spill ID:	S92-0791
Staff Lead:	KEARNS, R	Date Entered:	Not reported
Last Entered:	19921105	First Response:	19921105
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19921031	Report Time:	01:15PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	11-50	Qty Actual:	101-250
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	ABOVE-GRND TANK	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROPERTY (Continued)

S101044508

Notifier: BOB SMITH/FD
Notif Tel: Not reported
Days/Close: 0

30
NNE
1/2-1
0.823 mi.
4344 ft.

RESIDENCE
291 HEAD OF THE BAY ROAD
BOURNE, MA

SHWS **S112288525**
RELEASE **N/A**

Relative:
Higher

SHWS:

Actual:
35 ft.

Release Tracking Number/Current Status: 4-0024343 / Response Action Outcome
Release Town: BOURNE
Notification Date: 12/19/2012
Category: TWO HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 02/26/2013
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: RESIDENTIAL
Location Type: ROADWAY
Source: VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: DIESEL FUEL
Quantity: 10 gallons

Actions:

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 12/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/26/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENCE (Continued)

S112288525

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/26/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 3/4/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0024343 / Response Action Outcome
Primary ID: Not reported
Official City: BOURNE
Notification: 12/19/2012
Category: TWO HR
Status Date: 02/26/2013
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

31
SSE
1/2-1
0.890 mi.
4701 ft.

1 SANDWICH RD
BOURNE, MA

SHWS S104546305
RELEASE N/A
LEAD

Relative:
Higher

SHWS:

Release Tracking Number/Current Status: 4-0011936 / Response Action Outcome
Release Town: BOURNE
Notification Date: 02/06/1996
Category: TWO HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 01/06/1997
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: RESIDENTIAL

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: #2 FUEL OIL
Quantity: 50 gallons

Actions:

Action Type: Response Action Outcome - RAO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S104546305

Action Status:	Fee Received - FMCRA Use Only
Action Date:	1/10/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/6/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	2/12/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/6/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	2/6/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	4-0011936 / Response Action Outcome
Primary ID:	Not reported
Official City:	BOURNE
Notification:	02/06/1996
Category:	TWO HR
Status Date:	01/06/1997
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

[Click here to access the MA DEP site for this facility:](#)

LEAD:

Community:	Bourne
Unit:	9
Inspector Name:	Frederic Hemmila
Inspector License Number:	2736
Activity Type:	INSPECT
Activity Date:	06/14/2002
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S104546305

Community: Bourne
Unit: 9
Inspector Name: Frederic Hemmila
Inspector License Number: 2736
Activity Type: INSPECT
Activity Date: 06/14/2002
Start Work Date: Not reported
Activity Descriptions: Risk Assessment
Outcomes: Urgent Lead Hazards

Community: Bourne
Unit: 9
Inspector Name: Frederic Hemmila
Inspector License Number: 2736
Activity Type: INSPECT
Activity Date: 12/10/2002
Start Work Date: Not reported
Activity Descriptions: Final Interim Control Reinsp.
Outcomes: Passed

Community: Bourne
Unit: 9
Inspector Name: Frederic Hemmila
Inspector License Number: 2736
Activity Type: COMPLIANCE
Activity Date: 12/10/2002
Start Work Date: Not reported
Activity Descriptions: Letter of Interim Control
Outcomes: Issued

32
WSW
1/2-1
0.995 mi.
5252 ft.

AT ONSET AVE
3223 CRANBERRY HWY
ONSET, MA 02558

SHWS S106513206
RELEASE N/A

Relative:
Lower

SHWS:

Release Tracking Number/Current Status: 4-0012824 / Response Action Outcome

Release Town: WAREHAM

Notification Date: 02/05/1997

Category: TWO HR

Associated ID: Not reported

Current Status: Response Action Outcome

Status Date: 04/19/2000

Phase: Not reported

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Not reported

Location Type: RESIDENTIAL

Source: DRUMS

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: WEED KILLER

Quantity: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AT ONSET AVE (Continued)

S106513206

Actions:

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 12/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/5/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/5/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 2/6/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 2/6/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 2/6/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/6/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 2/7/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AT ONSET AVE (Continued)

S106513206

Action Date: 3/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/19/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 7/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0012824 / Response Action Outcome
Primary ID: Not reported
Official City: WAREHAM
Notification: 02/05/1997
Category: TWO HR
Status Date: 04/19/2000
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOURNE	1000690239	SUNOCO SERVICE STA	MAIN ST	02532	FINDS,RCRA-NLR
BOURNE	1000690788	NEW ENGLAND TELE	STATE HWY RTE 6A		FINDS,RCRA-NLR
BOURNE	1000690836	NEW ENGLAND TELE	PERRY AVE	02532	FINDS,RCRA-NLR
BOURNE	1001968305	EXXON CO USA 37866	RTE 20	02532	RCRA-NLR
BOURNE	1004519026	BOURNE	TOWN OF BOURNE		FINDS,AIRS (AFS)
BOURNE	1006838280	OTIS AIR FORCE BASE LANDFILL	CONNERY RD	02532	FINDS,LF
BOURNE	1007202731	ARMY NATIONAL GUARD ARMORY	ARMORY ROAD (ROUTE 6)	02532	RCRA-LQG
	2008883571		NORTH DISTRICT - PROVINCETOWN		ERNS
	2010935530		MACMILLAN WHARF - PROVINCETOWN		ERNS
SANDWICH	2011975006				ERNS
BOURNE	S103812523	NO LOCATION AID	SHORE RD	02532	HWS,RELEASE
BOURNE	S104180030	OLD GUN POSITION 15	POCASSETT FORESTDALE RD	02532	HWS,RELEASE
BOURNE	S104774346	EAST CANAL APPROACH	OFF HOG IS	02532	HWS,RELEASE
BOURNE	S105309512	GUN POSITION 10	HOWE RD	02532	HWS,RELEASE
BOURNE	S105309513	GUN POSITION 11	HOWE RD	02532	HWS,RELEASE
BOURNE	S105522101	SCENIC HWY REST AREA	RTE 6	02532	HWS,RELEASE
BOURNE	S112557390	BOURNE DPW	RTE 28	02532	HW GEN
BOURNE	S113410524	CONTINENTAL MARINE	3236 CRANBERRY HWY	02532	HW GEN
BUZZARDS BAY	U000230186	CONTINENTAL MARINA	3236 CRANBERRY HWY	02532	UST,FINANCIAL ASSURANCE 1
BUZZARDS BAY	U003655279	ASTRO ENERGY CORPORATION	3242 CRANBERRY HWY	02532	UST,FINANCIAL ASSURANCE 1

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/12/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/12/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/12/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 08/30/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 07/08/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 08/30/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/14/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/29/2013	Telephone: 703-603-0695
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/10/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/14/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/29/2013	Telephone: 703-603-0695
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/10/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 08/15/2013
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/02/2013
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/17/2013	Telephone: 202-267-2180
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 07/01/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 06/28/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/16/2013	Telephone: 617-292-5990
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 08/29/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/10/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/10/2013	Telephone: 617-292-5989
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 07/10/2013
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 06/28/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/16/2013	Telephone: 617-292-5990
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 08/29/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 06/28/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/16/2013	Telephone: 617-292-5500
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 08/29/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/24/2013
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/24/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/24/2013
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/24/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 07/24/2013
Number of Days to Update: 59	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012	Source: EPA Region 1
Date Data Arrived at EDR: 11/01/2012	Telephone: 617-918-1313
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 08/02/2013
Number of Days to Update: 162	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013	Source: EPA Region 4
Date Data Arrived at EDR: 02/08/2013	Telephone: 404-562-8677
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/24/2013
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/19/2013	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 07/22/2013	Telephone: 617-556-1035
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 07/22/2013
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/04/2013
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 10/22/2009	Source: Department of Public Safety
Date Data Arrived at EDR: 10/28/2009	Telephone: 617-556-1035
Date Made Active in Reports: 11/06/2009	Last EDR Contact: 07/17/2013
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/04/2013
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 06/28/2013
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/28/2013
Number of Days to Update: 43

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 08/29/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/02/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/11/2013
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 4

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/26/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/31/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/04/2013	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/12/2013	Telephone: 202-307-1000
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 09/04/2013
Number of Days to Update: 59	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/25/2013	Telephone: 202-564-6023
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 07/24/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Varies

LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 06/21/2012	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/29/2012	Telephone: 617-292-5628
Date Made Active in Reports: 09/28/2012	Last EDR Contact: 08/22/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/03/2013	Telephone: 202-366-4555
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 07/01/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2003	Telephone: 617-292-5720
Date Made Active in Reports: 12/31/2003	Last EDR Contact: 12/03/2003
Number of Days to Update: 28	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 06/28/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/16/2013	Telephone: 617-292-5990
Date Made Active in Reports: 08/28/2013	Last EDR Contact: 08/29/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/08/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/18/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2013	Telephone: (888) 372-7341
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 08/08/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/10/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 03/13/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/11/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 04/18/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/24/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/01/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2012	Source: EPA
Date Data Arrived at EDR: 01/16/2013	Telephone: 202-566-0500
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 07/17/2013
Number of Days to Update: 114	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/14/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/20/2013	Telephone: 301-415-7169
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/10/2013
Number of Days to Update: 112	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/09/2013
Date Data Arrived at EDR: 04/11/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 29

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 08/15/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 05/16/2013
Date Data Arrived at EDR: 05/22/2013
Date Made Active in Reports: 07/18/2013
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 508-767-2781
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 07/24/2013
Date Data Arrived at EDR: 07/26/2013
Date Made Active in Reports: 08/28/2013
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 08/01/2004
Date Data Arrived at EDR: 09/01/2004
Date Made Active in Reports: 10/01/2004
Number of Days to Update: 30

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 07/31/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 07/22/2013
Date Made Active in Reports: 08/28/2013
Number of Days to Update: 37

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 01/29/2013
Number of Days to Update: 13

Source: Massachusetts Emergency Management Agency
Telephone: 508-820-2019
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

LEAD: Lead Inspection Database

The Massachusetts Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 07/02/2013
Date Data Arrived at EDR: 07/10/2013
Date Made Active in Reports: 08/29/2013
Number of Days to Update: 50

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Program
Telephone: 617-624-5757
Last EDR Contact: 06/20/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 09/01/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/05/2011
Number of Days to Update: 27

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 08/09/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 06/10/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 08/28/2013
Number of Days to Update: 56

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 07/02/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Semi-Annually

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 04/04/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 97

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/21/2011
Date Data Arrived at EDR: 10/25/2011
Date Made Active in Reports: 11/18/2011
Number of Days to Update: 24

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 07/17/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 12/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2013	Telephone: 617-520-3000
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 08/07/2013
Number of Days to Update: 81	Next Scheduled EDR Contact: 11/25/2013
	Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/15/2013	Telephone: 202-566-1917
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 08/23/2013
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/02/2013
	Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/23/2010	Telephone: 617-292-5970
Date Made Active in Reports: 02/03/2011	Last EDR Contact: 06/10/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 08/02/2013
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/11/2013
	Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 07/19/2013
Number of Days to Update: 76	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 04/11/2013
Date Made Active in Reports: 05/23/2013
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 06/10/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Areas of Critical Environmental Concern Datalayer: The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX B

Draft Geophysical Survey Report
Proposed Recharge Sites
Community Center & Queen Sewell Park
Bourne, Massachusetts

Prepared for
WESTON & SAMPSON
December 2013

GEOPHYSICAL APPLICATIONS

INCORPORATED

December 4, 2013

Mr. Kevin MacKinnon, PG
WESTON & SAMPSON
5 Centennial Drive
Peabody, MA 01960

Tel: 978-532-1900
email: mackinnk@wseinc.com

Subject: Draft Geophysical Survey Report
Proposed Recharge Sites
Community Center and Queen Sewell Park Ballfields
Bourne, Massachusetts

Dear Mr. MacKinnon:

Geophysical Applications, Inc. conducted a geophysical survey at the above-noted sites, to help characterize bedrock depths and overburden stratigraphy. The survey areas consisted of flat to gently-sloped terrain, mostly unpaved, including two baseball fields.

This report describes geophysical surveys conducted on November 11 - 12 and 15, 2013. Seismic refraction, 2D electrical resistivity, and ground-penetrating radar (GPR) profiling were performed at each of the two areas, as described below.

METHODS OF INVESTIGATION

Traverse Positions and Survey Control

Geophysical survey traverses performed during this survey are shown on an annotated satellite image provided by Weston & Sampson.

Geophysical Applications and Weston & Sampson personnel selected resistivity traverses that would be as long as possible, while keeping most electrode stakes as far as possible from chain-link fences surrounding the ballfields. That resulted in resistivity traverses that were oriented across each of the ballfields, at both sites. GPR profiling was also performed along the resistivity traverses.

The Community Center seismic refraction traverse coincided with that site's resistivity traverse, and extended across a tennis court and a second smaller ballfield. The Queen Sewell Park seismic traverse crossed the ballfield, and extended uphill toward the south-southeast along an unpaved path.

Fiberglass tape measures provided horizontal distance control along the resistivity/GPR traverses. Pre-molded geophone takeouts at 20-foot intervals provided horizontal distance control along the seismic traverses.

Vertical survey control was provided by Geophysical Applications using an electronic theodolite and an elevation rod. Elevation readings were acquired at seismic shot points and subtle changes in ground-surface slope at the Community Center traverses, and also at ground-surface inflections along the Queen Sewell Park resistivity traverse. Ground-elevation readings were

recorded at seismic shot points and 20-foot geophone spacings along the Queen Sewell Park seismic traverse. All ground-elevation readings were adjusted to achieve approximate agreement with ground-elevation contours provided by Weston & Sampson (from the MassGIS database).

Electrical Resistivity Profiling

Two-dimensional resistivity imaging was performed to measure lateral and vertical variations in the so-called “apparent” resistivity of subsurface materials. These variations can indicate changes in soil stratigraphy, depending upon the layer depths and resistivity contrasts.

Resistivity surveying entails applying an electric current across two “current” electrodes, and measuring the resulting voltage between two “potential” electrodes. Apparent resistivity values are calculated by multiplying the ratio of the measured voltage and applied current, by geometric factors that vary with the electrode array type and electrode spacing.

Resistivity data was acquired using an Advanced GeoSciences (AGI) model Sting R1 resistivity meter with an AGI Swift 56-electrode system. These data were obtained using a Schlumberger electrode array pattern with 5-foot electrode spacings. This relatively short electrode spacing allowed us to position all 56 electrode stakes within the available traverse lengths, between fences surrounding the Community Center and Queen Sewell Park ballfields.

Eighteen-inch long stainless steel rods were utilized as electrode stakes, and were driven at least one-foot into the ground. Absorbent-clay cat litter was placed in each electrode hole, and repeatedly wetted with salty water to achieve satisfactory electrical contact with the ground.

Resistivity modeling was accomplished using AGI’s EarthImager2D software package.

Ground-penetrating Radar Profiling

GPR profiling is based on the principle that materials with contrasting electrical properties reflect radar signals back to the ground surface. Metal or concrete objects (pipes, etc.), or electrically-conductive clayey strata, generally produce high-amplitude GPR reflections.

GPR data were recorded using a GSSI model SIR-2000 radar instrument with a 200 MHz antenna. Radar profiles were recorded continuously along the resistivity traverses at both sites. These profiles were displayed on a color monitor for immediate inspection and preliminary interpretation. GPR data were also recorded digitally and archived to a CD-ROM at the survey’s conclusion.

The horizontal scale on each GPR record was controlled by 10- or 20-foot distance marks referenced to a fiberglass measuring tape. The vertical scale of radar cross sections recorded during this survey was varied from 60 to 150 nanoseconds, equivalent to survey depth ranges of 10 to 25 feet.

Seismic Refraction Profiling

Seismic refraction profiling was performed primarily to estimate bedrock depths at each of the two survey areas. The refraction method exploits the contrasting seismic velocities between dry overburden, water-saturated overburden and bedrock, to allow calculating depths to interfaces between those materials.

Refraction data were acquired with an ABEM model Terraloc Mark 6 seismograph. Each 24-channel geophone array was 500 feet long with 20-foot geophone spacings. Small sandbags were placed on each tripod-base geophone (on the Community Center’s paved tennis court) to minimize background vibration caused by wind jostling the geophones. Stake-base geophones were used on soft ground.

A GeoSystems DigiPulse model AWD-II 450-pound accelerated hammer source generated seismic energy for this survey. This trailer-mounted machine raises a 450-pound hammer vertically against a thick rubber band, via a hydraulic cylinder. When the hydraulic cylinder reaches the top of its travel range, it separates from the hammer; the elastic band then forces the hammer downward, firmly striking a thick aluminum impact plate. A geophone adjacent to the AWD's metal plate initiated seismic data recording. Depending upon ambient noise conditions, up to ten seismograms were stacked at each shot point to enhance the recorded seismic data quality.

Refraction seismograms were recorded using 0.25-millisecond sampling intervals, with record lengths of 256 milliseconds. Seismograms were reviewed in the field and stored on the ABEM's internal hard drive and downloaded to diskettes for backup data storage. Data was archived to a CD-ROM at the survey's conclusion.

Seismic shot points were located at the ends of each traverse (stations 0+00 and 5+00), at selected intermediate stations (station 287.5 and 364 feet at the Community Center Line A, and stations 111 and 287.5 feet at Queen Sewell Park Line B). Offset shots were recorded where permitted by site conditions, to help profile the expected deep bedrock (offset shots were located at Line A station 544 feet, and Line B station -40 feet). Longer offset-shot distances were not possible at these survey areas, due to physical access and topographic constraints.

Refraction data analysis was performed by measuring first-arrival times with Rimrock Geophysics' ASIPIK software module, followed by modeling with Rimrock Geophysics' SIPT2 delay-time interpretation software. This software uses a ray-tracing algorithm, in which calculated layer thickness beneath each geophone is varied to obtain good agreement between observed and modeled arrival times. Time-distance plots were reviewed and layer depths were manually calculated with the crossover-distance technique as a quality-control check.

SURVEY LIMITATIONS

Electrical resistivity measurements may be adversely affected by laterally-extensive metal objects in contact with the earth (fencing, pipes, etc.). Calculated apparent resistivity values are approximate. Resistivity-survey depth ranges and resolution are determined by a combination of the electrode spacing, maximum number of electrodes, and resistivity values of subsurface materials. Maximum resistivity-survey depths at these sites were approximately 30 to 35 feet below ground surface, due to the limited traverse lengths available within chain link fencing that surrounds each ballfield.

GPR signal penetration is site specific, as determined by dielectric properties of local soil or fill materials. Maximum GPR signal penetration at these sites was approximately 25 feet below ground surface. Objects deeper than the GPR signal's maximum penetration depth remain undetected.

Seismic survey depth calculations are generally estimated to be accurate within $\pm 10\%$ (or ± 3 feet, whichever is larger) for calculated layer depths described in this report. Overburden seismic velocity values were calculated over 24-channel geophone arrays, and therefore represent averaged subsurface conditions. Localized low-velocity bedrock (e.g. fracture zones) occurs naturally and may be present at any New England locale.

Weathered bedrock or overburden layers too thin to be detected by seismic profiling, including glacial till, may be present above the bedrock surface at either survey location.

RESULTS

Figure 1 shows the geophysical survey traverses, and Figures 2 and 3 show resistivity data and modeling results from the two sites. Figures 4 and 5 show interpreted seismic-refraction cross-sections at each site.

Community Center Survey

Resistivity data and modeling results along Line 1 are depicted on Figure 2. The three panels on Figure 2 show the following: a) raw resistivity data values recorded during the fieldwork (upper panel), b) our interpreted resistivity model (lower panel), and c) the resistivity values calculated from the resistivity model (middle panel).

The degree to which the resistivity model reproduces the raw data can be evaluated by comparing the similarity between the raw data (upper panel) and the calculated resistivities (middle panel). Note that the visible agreement between those two panels is quite good.

Ground surface near the infield's outermost edge was adjusted to equal twelve feet elevation, to match the 12-foot elevation contour on a map provided by Weston & Sampson. Maximum survey depth on the resistivity-model panel is about 35 feet. Depths indicated on the upper two panels are approximate, at best. Those two panels are known as pseudosections, because their vertical depth scale is not really known.

Stations across the top of each resistivity panel are distances in units of feet. Note that these distance stations are in multiples of the 5-foot electrode spacings (the small, solid-black squares beneath the distance stations represent actual electrode positions).

The color-shaded contours represent the range of measured or calculated resistivity values, from low (dark blue) to high (red). Note that resistivity and conductivity are inverses of each other; thus, low-resistivity is equivalent to high conductivity, and vice versa.

The shallowest green layer on Figure 2 represents intermediate-resistivity soils. The thick red layer probably represents granular materials (sand, gravel, etc.). Based on Weston & Sampson's nearby monitoring well, the static groundwater level is probably within this red layer. The "pinched" section of the red layer near stations 140 to 160 feet may represent a region with less coarse material.

The dark blue shading toward the bottom of the Line 1 inverted resistivity section represents materials exhibiting much lower apparent resistivity. This may include finer sediments, and possibly some slightly-brackish ground water. Very low resistivity values indicative of clayey materials were not found along this traverse, within the maximum survey depth range of 35 feet

GPR profiling along Line 1 showed good signal penetration to a depth of at least 25 feet, also indicating a lack of clayey soils at shallow depth. Possible boulders were observed 13 feet deep near station 85 feet, and 21 feet deep near station 238 feet.

Seismic refraction profiling along Line A (Figure 4) shows approximately 10 to 17 feet of unsaturated overburden, overlying a water-saturated overburden layer that is approximately 80 to 90 feet thick. Bedrock depths range between approximately 90 to 105 feet below ground surface. Although defined by relatively few data points, bedrock exhibited an average seismic compressional velocity of approximately 14,000 feet per second, indicating relatively competent rock with little fracturing.

Interpreted bedrock-surface elevations along Line A range between -84 to -93 feet.

Queen Sewell Park Survey

Ground surface at the Line 2 resistivity traverse's northern end was adjusted to equal 14.1 feet, based on elevation contours shown on a map provided by Weston & Sampson.

The Line 2 resistivity traverse (Figure 3) shows a thin green and blue layer of moderate-resistivity soils approximately 5 feet thick, overlying a red wedge of high-resistivity (probably granular) materials that thickens toward the north. This high-resistivity material is in turn underlain by moderate-resistivity overburden.

Low-resistivity values indicative of clay were not observed within the 35-foot resistivity survey depth range along Line 2.

GPR profiling along resistivity Line 2 showed good signal penetration the full depth of the GPR records (approximately 25 feet), also indicating a lack of shallow clayey overburden. Boulders were not confidently detected by GPR along Line 2.

Seismic refraction profiling along Line B (Figure 5) shows a layer of dry overburden ranging from 25 feet thick at the traverse's south end, to roughly 9 to 14 feet thick at the north end.

The seismic interpretation shows a water-saturated layer that varies between 95 to 117 feet thick. Overall bedrock depths ranged between approximately 130 feet at the traverse's northwest end, to 137 feet near station 150, to 110 feet near the traverse's southeast end.

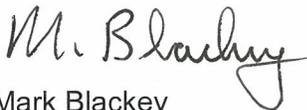
Interpreted bedrock elevations along Line B are between -94 to -113 feet.

* * * * *

Please call the undersigned at 508/429-2430 if you have questions regarding our report. We appreciate this opportunity to provide geophysical services to Weston & Sampson, and we welcome inquiries regarding this survey or future projects.

Sincerely,

GEOPHYSICAL APPLICATIONS, INC.



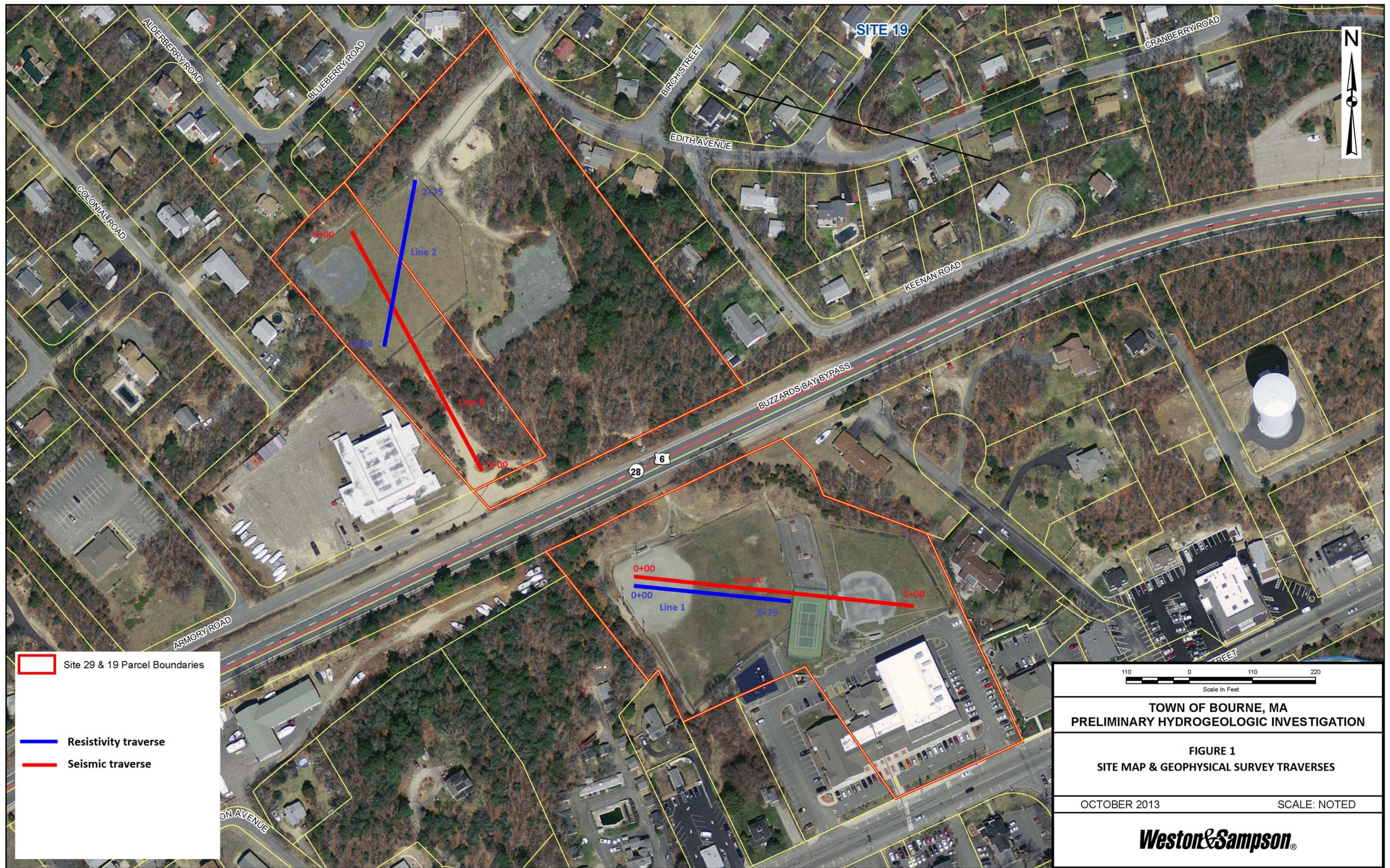
Mark Blackey
Principal and Geophysicist



Charlene Sullivan
Geophysicist

1131432-rpt.doc

Path: O:\Survey\MapData\Brook Roads\GIS\MapInfo\Bourne Site Map.mxd User: mackinn Served: 10/15/2013 3:41:18 PM Opened: 10/15/2013 3:42:59 PM



- Site 29 & 19 Parcel Boundaries
- Resistivity traverse
- Seismic traverse



**TOWN OF BOURNE, MA
PRELIMINARY HYDROGEOLOGIC INVESTIGATION**

**FIGURE 1
SITE MAP & GEOPHYSICAL SURVEY TRAVERSES**

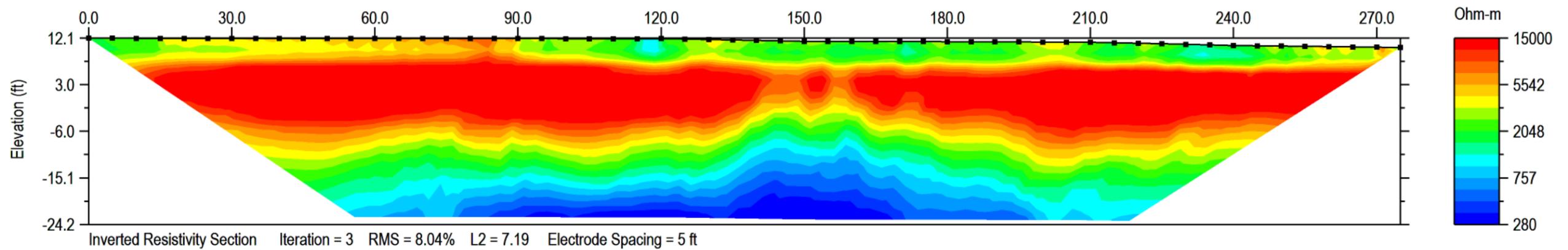
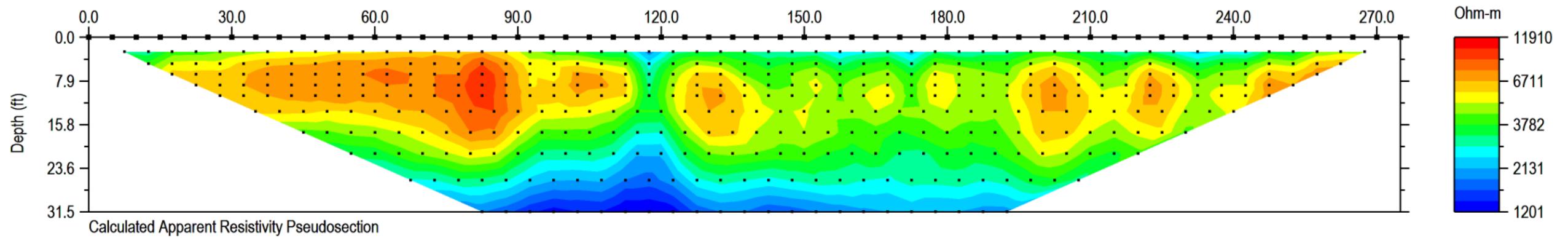
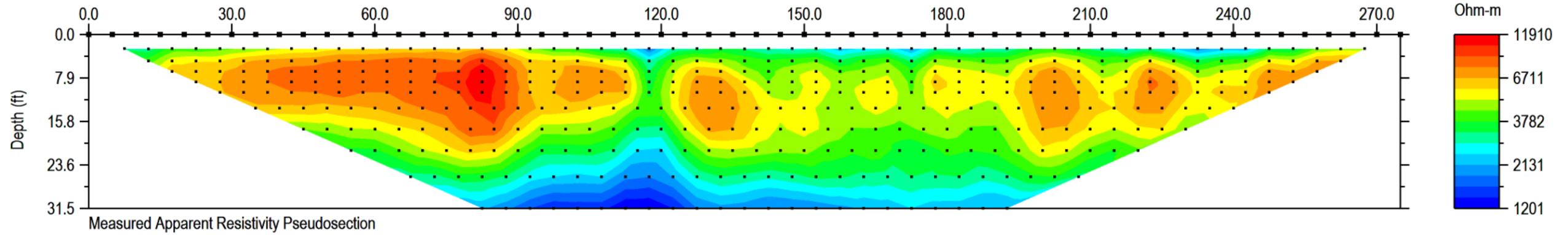
OCTOBER 2013 SCALE: NOTED

Weston & Sampson

Line 1 - Community Center Ballfield

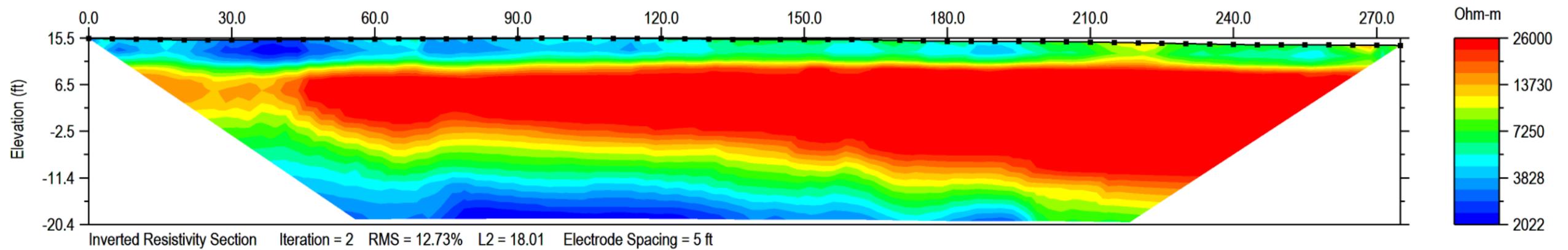
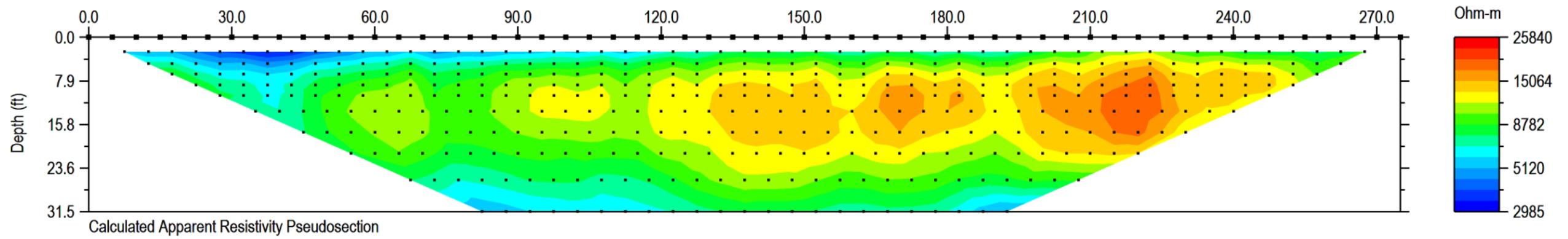
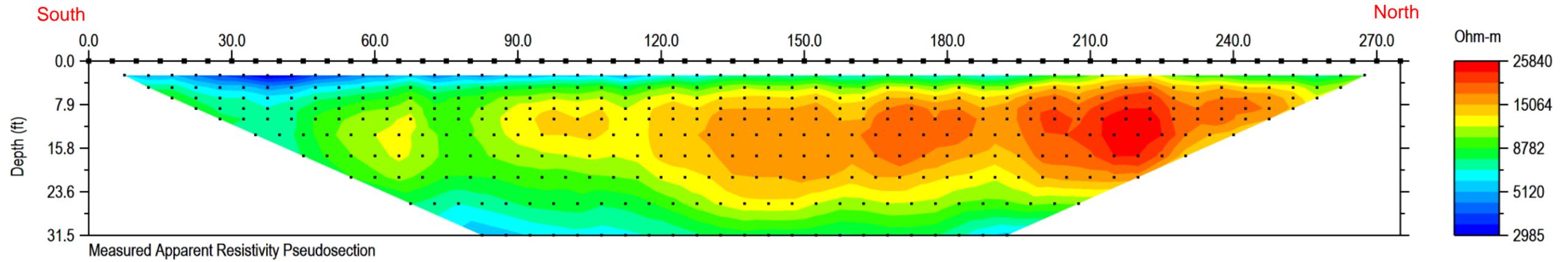
West

East



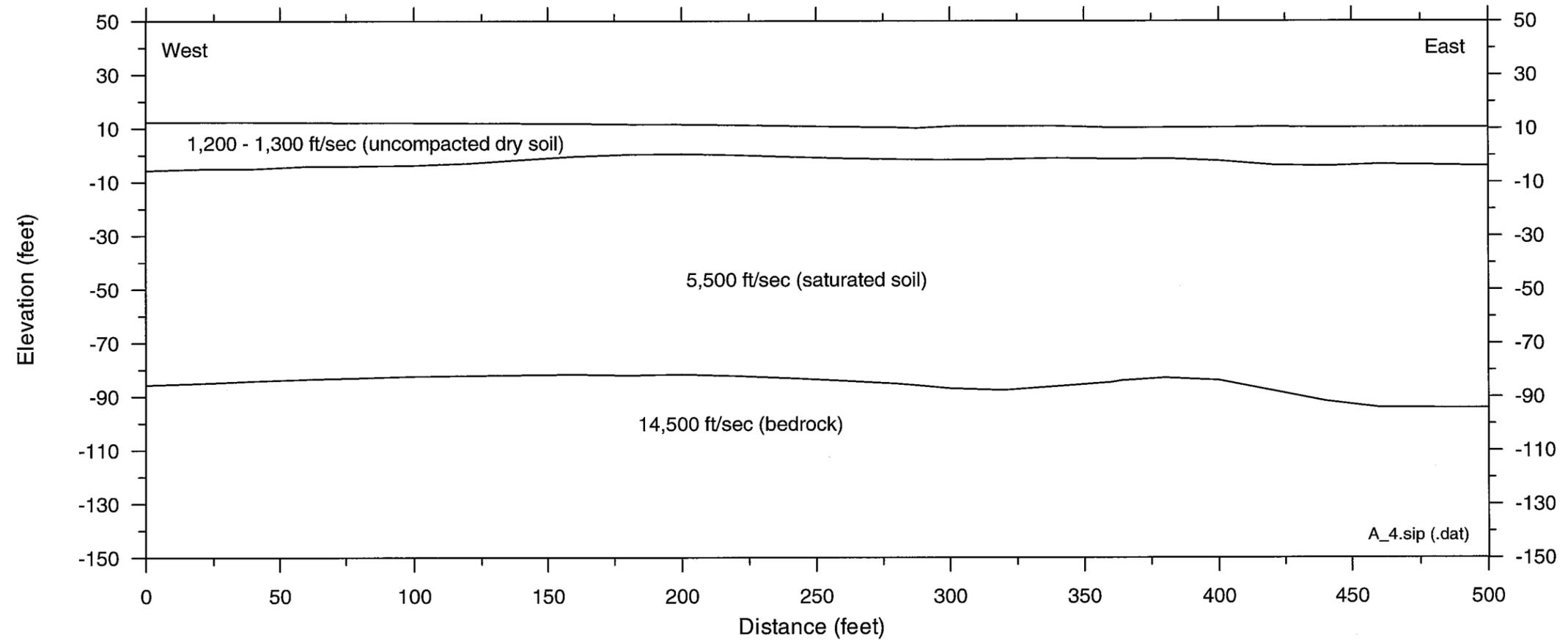
Geophysical Applications, Inc. - Figure 2			
Job Code	1131341	Survey Date	Nov 11, 2013
Project Site	Bourne, MA	Instrument	Sting R1
Approved By	MEB	Software	EarthImager 2D
Data File	1432-1_trial3.stg		

Line 2 - Queen Sewell Park

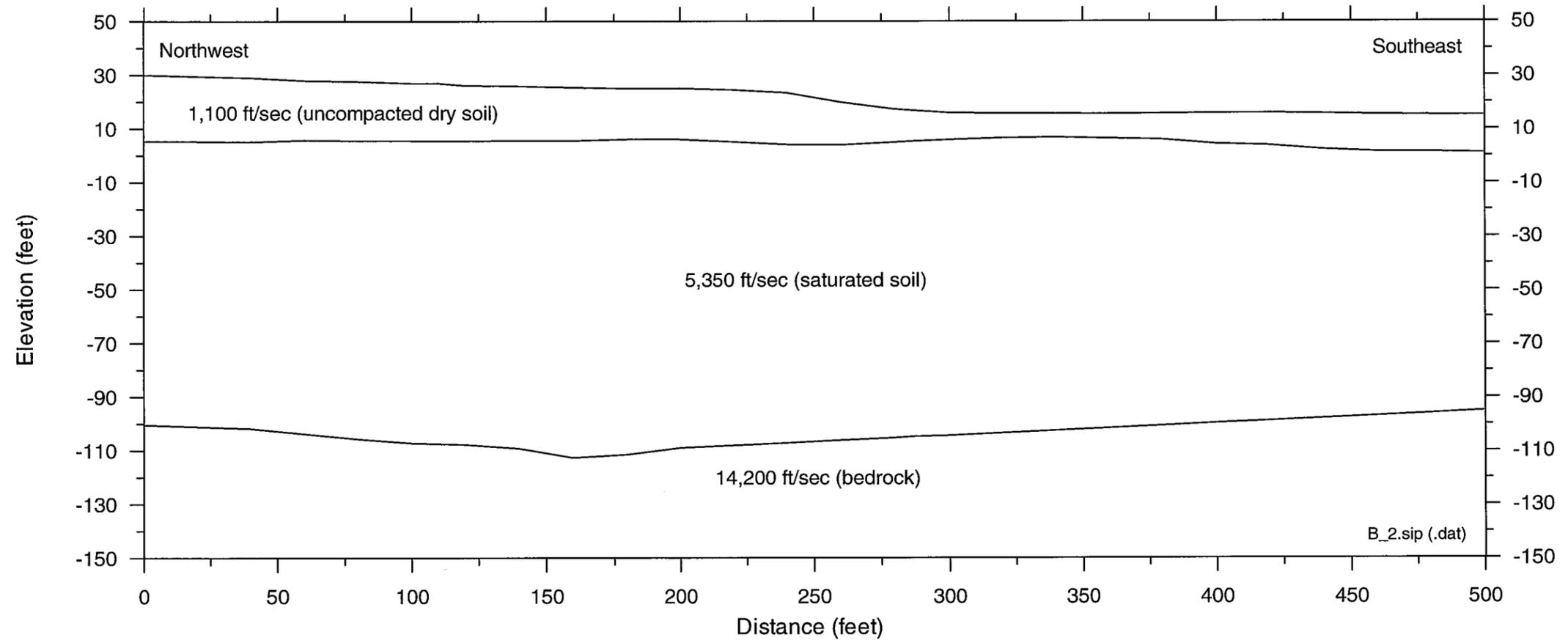


Geophysical Applications, Inc. - Figure 3			
Job Code	1131341	Survey Date	Nov 12, 2013
Project Site	Bourne, MA	Instrument	Sting R1
Approved By	MEB	Software	EarthImager 2D
Data File	1432-2_trial4.stg		

Community Center - Seismic Line A



Queen Sewell Park - Seismic Line B



APPENDIX C



ANALYTICAL REPORT

Lab Number:	L1418200
Client:	Weston & Sampson Five Centennial Drive Peabody, MA 01960-7985
ATTN:	Blake Martin
Phone:	(978) 532-1900
Project Name:	BOURNE HYDRO
Project Number:	Not Specified
Report Date:	08/19/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1418200-01	MW-1	WATER	BOURNE, MA	08/12/14 14:30	08/12/14
L1418200-02	MW-3	WATER	BOURNE, MA	08/12/14 12:30	08/12/14
L1418200-03	MW-4	WATER	BOURNE, MA	08/12/14 13:30	08/12/14
L1418200-04	MW-5	WATER	BOURNE, MA	08/12/14 14:00	08/12/14
L1418200-05	MW-6	WATER	BOURNE, MA	08/12/14 16:30	08/12/14
L1418200-06	MW-10	WATER	BOURNE, MA	08/12/14 15:30	08/12/14

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Case Narrative (continued)

Sample Receipt

The samples were field filtered for Ammonia, TKN, Total Phosphorus, and BOD.

Coliform, Fecal (MF)

L1418200-01 through -06 have elevated detection limits due to the dilutions required by the sample matrices.

L1418200-02 and -03 were analyzed with the method required holding time exceeded.

Nitrogen, Ammonia

L1418200-01, -03, and -04 have elevated detection limits due to limited sample volume available for analysis.

L1418200-05 and -06 have elevated detection limits due to the dilutions required by the sample matrices.

Nitrogen, Total Kjeldahl

L1418200-05 has an elevated detection limit due to the dilution required by the sample matrix.

The WG713554-4 MS recovery (67%), performed on L1418200-04, is below the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 08/19/14

INORGANICS & MISCELLANEOUS

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-01
Client ID: MW-1
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 14:30
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	3200		mg/l	50	NA	10	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	08/13/14 17:05	08/14/14 21:51	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	3.1		mg/l	0.10	--	1	-	08/19/14 01:02	30,4500NO3-F	DB
Total Nitrogen	3.8		mg/l	0.30	--	1	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	0.711		mg/l	0.300	--	1	08/13/14 13:25	08/14/14 21:11	30,4500N-C	AT
Phosphorus, Total	ND		mg/l	0.010	--	1	08/13/14 09:50	08/15/14 12:14	30,4500P-E	TE
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-02
Client ID: MW-3
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 12:30
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	14000		mg/l	100	NA	20	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	08/13/14 17:05	08/14/14 21:51	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	0.19		mg/l	0.10	--	1	-	08/19/14 01:04	30,4500NO3-F	DB
Total Nitrogen	0.53		mg/l	0.30	--	1	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	0.338		mg/l	0.300	--	1	08/13/14 13:25	08/14/14 21:11	30,4500N-C	AT
Phosphorus, Total	ND		mg/l	0.010	--	1	08/13/14 09:50	08/15/14 12:16	30,4500P-E	TE
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-03
Client ID: MW-4
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 13:30
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	66000		mg/l	200	NA	40	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	08/13/14 17:05	08/14/14 21:52	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	08/19/14 02:01	30,4500NO3-F	DB
Total Nitrogen	0.50		mg/l	0.30	--	1	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	0.503		mg/l	0.300	--	1	08/13/14 13:25	08/14/14 21:12	30,4500N-C	AT
Phosphorus, Total	ND		mg/l	0.010	--	1	08/13/14 09:50	08/15/14 12:17	30,4500P-E	TE
BOD, 5 day	2.4		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-04
Client ID: MW-5
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 14:00
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	1400		mg/l	30	NA	6	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	08/13/14 17:05	08/14/14 21:53	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	1.6		mg/l	0.10	--	1	-	08/19/14 02:02	30,4500NO3-F	DB
Total Nitrogen	1.9		mg/l	0.30	--	1	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	0.336		mg/l	0.300	--	1	08/13/14 13:25	08/14/14 21:15	30,4500N-C	AT
Phosphorus, Total	ND		mg/l	0.010	--	1	08/13/14 09:50	08/15/14 12:18	30,4500P-E	TE
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-05
Client ID: MW-6
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 16:30
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	6200		mg/l	50	NA	10	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	08/13/14 17:05	08/14/14 21:54	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	0.62		mg/l	0.10	--	1	-	08/19/14 02:03	30,4500NO3-F	DB
Total Nitrogen	0.62		mg/l	0.60	--	2	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	ND		mg/l	0.600	--	2	08/13/14 13:25	08/14/14 21:16	30,4500N-C	AT
Phosphorus, Total	0.686		mg/l	0.025	--	2.5	08/13/14 09:50	08/15/14 12:19	30,4500P-E	TE
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

SAMPLE RESULTS

Lab ID: L1418200-06
Client ID: MW-10
Sample Location: BOURNE, MA
Matrix: Water

Date Collected: 08/12/14 15:30
Date Received: 08/12/14
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Fecal (MF)	ND		col/100ml	10	NA	10	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab										
Solids, Total Suspended	11000		mg/l	200	NA	40	-	08/14/14 16:05	30,2540D	DW
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	08/13/14 17:05	08/14/14 21:55	30,4500NH3-BH	AT
Nitrogen, Nitrate/Nitrite	1.4		mg/l	0.10	--	1	-	08/19/14 02:04	30,4500NO3-F	DB
Total Nitrogen	2.4		mg/l	0.60	--	2	-	08/19/14 09:15	41,-	JO
Nitrogen, Total Kjeldahl	0.982		mg/l	0.600	--	2	08/13/14 13:25	08/14/14 21:17	30,4500N-C	AT
Phosphorus, Total	0.696		mg/l	0.025	--	2.5	08/13/14 09:50	08/15/14 12:20	30,4500P-E	TE
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-06 Batch: WG713349-1										
Coliform, Fecal (MF)	ND		col/100ml	1.0	NA	1	-	08/12/14 22:00	30,9222D	SE
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG713379-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/13/14 03:35	08/18/14 00:15	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG713554-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	08/13/14 13:25	08/14/14 21:02	30,4500N-C	AT
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG713573-1										
Phosphorus, Total	ND		mg/l	0.010	--	1	08/13/14 09:50	08/15/14 12:01	30,4500P-E	TE
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG713666-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	08/13/14 17:05	08/14/14 21:39	30,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG713861-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/14/14 16:05	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG714875-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	08/19/14 00:42	30,4500NO3-F	DB

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOURNE HYDRO

Project Number: Not Specified

Lab Number: L1418200

Report Date: 08/19/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG713379-2								
BOD, 5 day	89		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG713554-2								
Nitrogen, Total Kjeldahl	104		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG713573-2								
Phosphorus, Total	95		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG713666-2								
Nitrogen, Ammonia	92		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG714875-2								
Nitrogen, Nitrate/Nitrite	102		-		90-110	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713379-4 QC Sample: L1418200-04 Client ID: MW-5												
BOD, 5 day	ND	100	130	130		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713554-4 QC Sample: L1418200-04 Client ID: MW-5												
Nitrogen, Total Kjeldahl	0.336	8	5.70	67	Q	-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713573-3 QC Sample: L1417757-03 Client ID: MS Sample												
Phosphorus, Total	0.022	0.5	0.541	104		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713666-4 QC Sample: L1418248-02 Client ID: MS Sample												
Nitrogen, Ammonia	ND	4	3.52	88		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG714875-4 QC Sample: L1418200-01 Client ID: MW-1												
Nitrogen, Nitrate/Nitrite	3.1	4	6.6	88		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713379-3 QC Sample: L1418157-01 Client ID: DUP Sample						
BOD, 5 day	120	110	mg/l	9		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713554-3 QC Sample: L1418200-03 Client ID: MW-4						
Nitrogen, Total Kjeldahl	0.503	0.480	mg/l	5		24
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713573-4 QC Sample: L1417757-03 Client ID: DUP Sample						
Phosphorus, Total	0.022	0.024	mg/l	9		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713666-3 QC Sample: L1418248-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.200	0.154	mg/l	26	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG713861-2 QC Sample: L1418165-01 Client ID: DUP Sample						
Solids, Total Suspended	13	14	mg/l	7		29
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG714875-3 QC Sample: L1418200-01 Client ID: MW-1						
Nitrogen, Nitrate/Nitrite	3.1	3.1	mg/l	2		20

Project Name: BOURNE HYDRO

Lab Number: L1418200

Project Number: Not Specified

Report Date: 08/19/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1418200-01A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-01B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-01C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-01D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-01E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)
L1418200-02A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-02B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-02C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-02D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-02E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)
L1418200-03A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-03B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-03C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-03D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-03E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)
L1418200-04A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-04B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-04C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-04D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-04E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days



Project Name: BOURNE HYDRO**Project Number:** Not Specified**Lab Number:** L1418200**Report Date:** 08/19/14**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1418200-05A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-05B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-05C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-05D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-05E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)
L1418200-06A	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-06B	Bacteria Cup Na2S2O3 preserved	A	N/A	3.1	Y	Absent	F-COLI-MF(.33)
L1418200-06C	Plastic 250ml H2SO4 preserved	A	<2	3.1	Y	Absent	TKN-4500(28),TPHOS-4500(28),NO3/NO2-4500(28),TNITROGEN(28),NH3-4500(28)
L1418200-06D	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	BOD-5210(2)
L1418200-06E	Plastic 1000ml unpreserved	A	7	3.1	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

Report Format: Data Usability Report



Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

Data Qualifiers

- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BOURNE HYDRO
Project Number: Not Specified

Lab Number: L1418200
Report Date: 08/19/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 41 Alpha Analytical Labs Internally-developed Performance-based Method.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE _____ OF _____

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 8/12/14

ALPHA Job #: L1418200

Project Information

Project Name: Bourne Hydro

Project Location: Bourne, MA

Project #:

Project Manager: Blake A. Martin

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #: _____

Client Information

Client: Weston & Sampson - Mel Higgins

Address: 5 Centennial Drive
Peabody, MA 01960

Phone: 978-977-0110 x 2332

Email: higginsm@wsiinc.com

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 8/19/14

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS		SAMPLE INFO
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 524.2	Filtration	
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	<input type="checkbox"/> Field	PRESERVATION
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	<input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	Preservation	Lab to do
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	Lab to do	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
PCB: <input type="checkbox"/> PEST		
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
TSS Feed Coliform NH3, Total N, Total P, BOD		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS	PRESERVATION	SAMPLE INFO	Sample Comments	TOTAL # BOTTLES
		Date	Time							
<u>18200-01</u>	<u>MW-1</u>	<u>8/12/14</u>	<u>230</u>	<u>GW</u>	<u>MFH</u>				<u>Field Filtered</u>	
<u>02</u>	<u>MW-3</u>		<u>1230</u>						<u>For NH3, Total N,</u>	
<u>03</u>	<u>MW-4</u>		<u>130</u>						<u>Total P, BOD</u>	
<u>04</u>	<u>MW-5</u>		<u>2</u>							
<u>05</u>	<u>MW-6</u>		<u>430</u>							
<u>06</u>	<u>MW-10</u>		<u>330</u>							

Container Type P= Plastic A= Amber glass V= Vial G= Glass B= Bacteria cup C= Cube O= Other E= Encore D= BOD Bottle	Preservative A= None B= HCl C= HNO3 D= H2SO4 E= NaOH F= MeOH G= NaHSO4 H= Na2S2O3 I= Ascorbic Acid J= NH4Cl K= Zn Acetate O= Other	Container Type _____ Preservative _____
--	---	--

Relinquished By: <u>JONATHAN HART</u> <u>J.H. Hart</u>	Date/Time: <u>8.12.2014</u> <u>5:00</u>	Received By: <u>T. Huddle</u>	Date/Time: <u>8/12/14 1700</u>	All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)
<u>T. Huddle</u>	<u>8/12/14 1845</u>	<u>Roberta Roman</u>	<u>8/12/14 1845</u>	

APPENDIX D

Bourne, MA

12/15/2014 15:07

Preliminary Disposal Field Sizing

With Reserve Area (between trenches)

Trench width = 2 ft
Effective Trench depth = 2 ft
additional trench depth (crushed stone) = 1 ft
overall depth = 3 ft
leaching area per lf of chamber/trench = 6 sf

loading rate = 3 gpd / sf
field load = 335,000 gpd

Assumes perc. test rate of 2 to 5
mpi (pg 45-46, Small WWTF w/
land disposal).

required leaching area = 111,667 sf

required trench = 18610 lf

horizontal separation distance = 6 ft

single trench length = 100 ft

required number of trenches = 186.1

rounded number of trenches = 186

assume (2) trenches end-to-end and
10-ft horizontal sep. between ends of trenches

overall length = 738 ft

overall width = 210 ft

footprint area = 155,064 sf
3.560 acres

Does not include recommended
set back distances

Bourne, MA

12/15/2014 15:07

Preliminary Disposal Field Sizing

No Reserve Area (between trenches)

Trench width = 2 ft
Effective Trench depth = 2 ft
additional trench depth (crushed stone) = 1 ft
overall depth = 3 ft
leaching area per lf of chamber/trench = 6 sf

loading rate = 3 gpd / sf
field load = 335,000 gpd

Assumes perc. test rate of 2 to 5
mpi (pg 45-46, Small WWTF w/
land disposal).

required leaching area = 111,667 sf

required trench = 18610 lf

horizontal separation distance = 2 ft

single trench length = 100 ft

required number of trenches = 186.1

rounded number of trenches = 186

assume (2) trenches end-to-end and
10-ft horizontal sep. between ends of trenches

overall length = 370 ft

overall width = 210 ft

footprint area = 77,742 sf
1.785 acres

Does not include recommended
set back distances

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW1 </u>
		SHEET <u> 1 </u> OF <u> 3 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>32.04 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/18/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							0-0.5 soil; 0.5-1 M SAND (sm gravel)		SOIL
							M SAND (sm gravel, single lg gravel 1.75")		
							M-F SAND (sm gravel) M SAND; chalky layer 6.25-6.5		
10							7-16.5 M-F SAND; 16.5-17.5 M-C SAND; 17.5-27 F SAND		SAND
15									
20									
25									
30							27-27.5 chalky layer; 27.5-28 F-M SAND		
							M SAND (sm-md gravel)		
35									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. MW1

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW1 </u>
		SHEET <u> 2 </u> OF <u> 3 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>32.04 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/18/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS
CASING: <u>PVC</u>	DATE TIME WATER AT CASING AT STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40									
45									
50									
55							M SAND (sm-md gravel up to 1")	SAND and GRAVEL	
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT DENSITY	BLOWS/FT DENSITY	

NOTES:

BORING No. <u> MW1 </u>

Weston & Sampson	PROJECT	REPORT OF BORING No. <u> MW1 </u>
	Bourne Queen	SHEET <u> 3 </u> OF <u> 3 </u>
	Sewell Park	Project No. <u> 2130464 </u>
	Hydrogeologic Investigation	CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>32.04 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/18/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS
CASING: <u>PVC</u>	DATE TIME WATER AT CASING AT STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
75							NO BEDROCK		SAND and GRAVEL
80									
85									
90									
95									
100									
105									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT DENSITY	BLOWS/FT DENSITY	

NOTES:

BORING No. <u> MW1 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW2 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>34.16 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/20/14</u> DATE END <u>6/20/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
CASING: <u>PVC</u>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							0-1.5 SOIL; 1.5-5.5 SAND (gravel material)		SOIL
									SAND and GRAVEL
10									
15									
20							M / M-F SAND (sm gravel)		SAND
25									
30									
35									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW2 </u>

Weston & Sampson	PROJECT	REPORT OF BORING No. <u> MW2 </u>
	Bourne Queen	SHEET <u> 2 </u> OF <u> 2 </u>
	Sewell Park	Project No. <u> 2130464 </u>
	Hydrogeologic Investigation	CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>34.16 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/20/14</u> DATE END <u>6/20/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
CASING: <u>PVC</u>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40									
45						C/ C-M SAND (sm-md gravel up to 1")		SAND and GRAVEL	
50									
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW2 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW3 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>30.17 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/17/14</u> DATE END <u>6/17/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5						0-0.5 SOIL; 0.5-2 M SAND (sm-md gravel)		SOIL	
10						M SAND			
15									
20						20-20.5 F SAND; 20.5-21 M SAND		SAND	
25						M SAND (sm gravel)			
30						SAND and chalky white rock			
35						M SAND (sm-md gravel)	WT		
						C SAND			

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. MW3

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW3 </u>
		SHEET <u> 2 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>30.17 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/17/14</u> DATE END <u>6/17/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
CASING: <u>PVC</u>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C SAND (sm-md gravel)	SAND and GRAVEL	
45									
50							M-F SAND		
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW3 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW4 </u>
		SHEET <u> 2 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>36.28 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/19/14</u> DATE END <u>6/19/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C/M-C SAND (sm gravel)		SAND
45									
50							M/M-F SAND		
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW4 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW5 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>39.5 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/20/14</u> DATE END <u>6/20/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5						0-0.75 SOIL; 0.75-1 M SAND		SOIL	
						M SAND (iron staining 1.5-2)		SAND	
10						10-10.5 PALE GRAVEL and sand; 10.5-11.25 F SAND (pinkish gravel); 11.25-20 M SAND		SAND and GRAVEL	
								SAND	
15						M/M-C SAND (sm gravel); 25.25-1 SAND layer with hints of silt	WT		
20									
25									
30									
35									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW5 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW5 </u>
		SHEET <u> 2 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>39.5 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/20/14</u> DATE END <u>6/20/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u> CASING: <u>PVC</u> CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C-M SAND (md/sm gravel)		
45									
50							M SAND (sm-md gravel)\		SAND
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW5 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW6 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>24.84 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/16/14</u> DATE END <u>6/16/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u> CASING: <u>PVC</u> CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							M SAND (md gravel)		SOIL
10							M SAND (sm-md gravel)		SOIL
15							M SAND (sm-md gravel)		SOIL
20							C SAND (sm-md gravel)	WT	SAND
25							C SAND (sm-md gravel)		SAND
30							C SAND (sm-md gravel)		SAND
35							C SAND (sm-md gravel)		SAND

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW6 </u>

Weston & Sampson	PROJECT	REPORT OF BORING No. <u> MW5 </u>
	Bourne Queen	SHEET <u> 2 </u> OF <u> 2 </u>
	Sewell Park	Project No. <u> 2130464 </u>
	Hydrogeologic Investigation	CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>24.84 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/16/14</u> DATE END <u>6/16/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS
CASING: <u>PVC</u>	DATE TIME WATER AT CASING AT STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C SAND (sm-md gravel)		
45							M SAND (sm gravel)		SAND
50							C SAND		
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT DENSITY	BLOWS/FT DENSITY	

NOTES:

BORING No. <u> MW5 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW7 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>27.53 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/16/14</u> DATE END <u>6/17/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							SOIL/ORGANIC		SOIL
10							M SAND (sm-md gravel)		SAND and GRAVEL
15							M SAND (sm-md gravel)	WT	SAND and GRAVEL
20							M SAND (sm-md gravel)		SAND and GRAVEL
25							M SAND (sm-md gravel)		SAND and GRAVEL
30							C/C-M SAND (sm/sm-md gravel)		SAND and GRAVEL
35							C/C-M SAND (sm/sm-md gravel)		SAND and GRAVEL

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW7 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW7 </u>
		SHEET <u> 2 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>27.53 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/16/14</u> DATE END <u>6/17/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS
CASING: <u>PVC</u>	DATE TIME WATER AT CASING AT STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C-M/M SAND (sm gravel)		
45							M SAND		
50							F SAND; some sticky/silty material present in small amounts (41.5-42, 49.25-49.5, 62)	SAND	
55									
60									
65									
70							M SAND (68.75-69 gravel material)		

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT DENSITY	BLOWS/FT DENSITY	

NOTES:

BORING No. MW7

Weston & Sampson	PROJECT	REPORT OF BORING No. <u> MW8 </u>
	Bourne Queen	SHEET <u> 1 </u> OF <u> 2 </u>
	Sewell Park	Project No. <u> 2130464 </u>
	Hydrogeologic Investigation	CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>24.35 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/19/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							0-0.5 SOIL, 0.5-2 SAND and soil		SOIL
							M SAND		SAND
							M SAND and chalky white material		SAND and GRAVEL
10							M-F/M SAND (some sm gravel 30-35)		SAND
								SAND and GRAVEL	
15							M-F/M SAND (some sm gravel 30-35)		SAND
20							M-F/M SAND (some sm gravel 30-35)		SAND
25							M-F/M SAND (some sm gravel 30-35)		SAND
30							M-F/M SAND (some sm gravel 30-35)		SAND
35							M-F/M SAND (some sm gravel 30-35)		SAND

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW8 </u>

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW8 </u>
		SHEET <u> 2 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>24.35 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/19/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u> CASING: <u>PVC</u> CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40						M-F SAND		SAND	
						C SAND (sm gravel)			
45						M SAND (sm gravel)			
50									
						C/M SAND (sm gravel)			
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. MW8

Weston & Sampson	PROJECT Bourne Queen Sewell Park Hydrogeologic Investigation	REPORT OF BORING No. <u> MW9 </u>
		SHEET <u> 1 </u> OF <u> 2 </u>
		Project No. <u> 2130464 </u>
		CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>15.92 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/18/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>					
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5								SOIL	
10								M-F SAND (sm gravel); 10-10.5 white-tan F SAND	
15							WT	SAND	
20								SAND	
25								C SAND (sm-md gravel)	
30									
35									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW9 </u>

Weston & Sampson	PROJECT	REPORT OF BORING No. <u> MW9 </u>
	Bourne Queen	SHEET <u> 2 </u> OF <u> 2 </u>
	Sewell Park	Project No. <u> 2130464 </u>
	Hydrogeologic Investigation	CHKD BY <u> Kevin MacKinnon </u>

BORING Co. <u>Crawford Drilling Services (CDS)</u>	BORING LOCATION <u>Queen Sewell Park</u>
FOREMAN <u>Al and Anthony</u>	GROUND SURFACE ELEV. <u>15.92 (Lidar)</u> DATUM <u> </u>
WSE REP: <u>Jonathan Hart</u>	DATE START <u>6/18/14</u> DATE END <u>6/18/14</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
CASING: <u>PVC</u>	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							C SAND (sm gravel)		
45									
50							M SAND (few small gravel)		SAND
55									
60									
65									
70									

GRANULAR SOILS	COHESIVE SOILS	REMARKS: WT --- Water Table
BLOWS/FT	DENSITY	

NOTES:

BORING No. <u> MW9 </u>

Weston & Sampson	<u>PROJECT</u>	REPORT OF BORING No. <u> </u> B1
		SHEET <u> </u> 1 OF <u> </u> 2
		Project No. <u> </u>
		CHKD BY <u> </u>

BORING Co. <u> </u> Mahe Services	BORING LOCATION <u> </u> Queen Sewell Park
FOREMAN <u> </u> Steve	GROUND SURFACE ELEV. <u> </u> DATUM <u> </u>
WSE GEOLOGIST: <u> </u> Andrew Walker	DATE START <u> </u> 10/18/13 DATE END <u> </u> 10/18/13

SAMPLER: <u> </u> Geoprobe, Continuous Sampling (Sleeves)	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u> </u> PVC	10/21/13	12:30	22.41	below TOC	
CASING SIZE: <u> </u> 1-1/2" Method <u> </u> Direct Push					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5						F-C brown SAND, some F-C gravel		SAND	
						missing			
10						VF-F tan Well Sorted SAND (eolian)			
						F-C tan well graded SAND with F gravel			
15						VF-F well sorted tan SAND (eolian)			
						F-C SAND			
20						VF-F tan Well Sorted SAND (eolian)			
25						VF-C tan SAND, some silt, trace gravel	WT		SILTY SAND
						F-C tan SAND, some F gravel, trace clay			
30						C brown well graded SAND and F GRAVEL		SAND and GRAVEL	
						M-C tan SAND and F GRAVEL, some C gravel			
35									

GRANULAR SOILS		COHESIVE SOILS		REMARKS: WT --- Water Table	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY		
0-4	V. LOOSE	0-2	V. SOFT		
4-10	LOOSE	2-4	SOFT		
10-30	M. DENSE	4-8	M. STIFF		
30-50	DENSE	8-15	STIFF		
> 50	V. DENSE	15-30	V. STIFF		
				> 30	HARD

NOTES:

BORING No. <u> </u> B1
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Weston & Sampson	<u>PROJECT</u>	REPORT OF BORING No. <u>B2</u>
		SHEET <u>1</u> OF <u>2</u>
		Project No. _____
		CHKD BY _____

BORING Co. <u>Maier Services</u>	BORING LOCATION <u>Community Center ballfields</u>
FOREMAN <u>Steve</u>	GROUND SURFACE ELEV. _____ DATUM _____
WSE GEOLOGIST: <u>Andrew Walker</u>	DATE START <u>10/21/13</u> DATE END <u>10/21/13</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>	<u>10/21/13</u>	<u>11:25</u>	<u>8.95</u>	<u>below TOC</u>	
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
5							0-0.5': Topsoil		SAND
							0.5-1.5': F-C brown SAND		
10							VF-F well sorted tan SAND (eolian)	WT	SAND
							F-M well graded tan SAND, some silt trace F gravel		
							7-8.5': F tan SAND		
							8.5-9.5': VF-F SAND and SILT		
15							9.5-10': F-C tan SAND, trace F gravel	1	SILTY SAND
							F tan SAND, 11-11.5: VF-F SAND and		
							11.5-12': F-C tan SAND		
							F-M tan SAND		
20							13-14.5': F-M dark brown SAND		SAND
							14.5-15': F-C brown SAND and F GRAVEL		
							F-C tan SAND and F GRAVEL		
							VF-F tan SAND		
25							22-23.5': F-C SAND and F GRAVEL, some clay, some C gravel		SAND and GRAVEL
							23.5-24.5': F-C tan SAND, some F gravel		
							24.5-25': M-C orange SAND and GRAVEL		
							F-C orange-tan SAND, trace F gravel		
30							M-C tan SAND and F GRAVEL		SAND and GRAVEL
35									

GRANULAR SOILS		COHESIVE SOILS		REMARKS: WT --- Water Table 1 ---- 1" band of orange-br M SAND @ 12' bgs
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY	
0-4	V. LOOSE	0-2	V. SOFT	
4-10	LOOSE	2-4	SOFT	
10-30	M. DENSE	4-8	M. STIFF	
30-50	DENSE	8-15	STIFF	
> 50	V. DENSE	15-30	V. STIFF	
		> 30	HARD	

NOTES:

BORING No. B2

Weston & Sampson	<u>PROJECT</u>	REPORT OF BORING No. <u>B2</u>
		SHEET <u>2</u> OF <u>2</u>
		Project No. _____
		CHKD BY _____

BORING Co. <u>Mahe Services</u>	BORING LOCATION <u>Community Center ballfields</u>
FOREMAN <u>Steve</u>	GROUND SURFACE ELEV. _____ DATUM _____
WSE GEOLOGIST: <u>Andrew Walker</u>	DATE START <u>10/21/13</u> DATE END <u>10/21/13</u>

SAMPLER: <u>Geoprobe, Continuous Sampling (Sleeves)</u>	GROUNDWATER READINGS				
	DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
CASING: <u>PVC</u>	<u>10/21/13</u>	<u>11:25</u>	<u>8.95</u>	<u>below TOC</u>	
CASING SIZE: <u>1-1/2"</u> Method <u>Direct Push</u>					

DEPTH (feet)	CASING (lb/ft)	SAMPLE				PID (ppm)	SAMPLE DESCRIPTION Classification	NOTES	STRATUM DESCRIPTION
		No.	Plug (ft)	DEPTH (ft)	Min./ft.				
40							M-C tan SAND and F GRAVEL		SAND and GRAVEL
							39-42.5': M-C tan SAND and F GRAVEL, trace C gravel		
45							42.5-44': VF-F tan SAND with silty, trace clay, 1/2" clay lens at ~43' bgs		SILTY SAND
							VF-F tan SAND, some silt		
50							F-M tan SAND, with C sand		
55									
60									
65									
70									

GRANULAR SOILS		COHESIVE SOILS		REMARKS: WT --- Water Table 1 ---- 1" band of orange-br M SAND @ 12' bgs	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY		
0-4	V. LOOSE	0-2	V. SOFT		
4-10	LOOSE	2-4	SOFT		
10-30	M. DENSE	4-8	M. STIFF		
30-50	DENSE	8-15	STIFF		
> 50	V. DENSE	15-30	V. STIFF		
				> 30	HARD

NOTES:

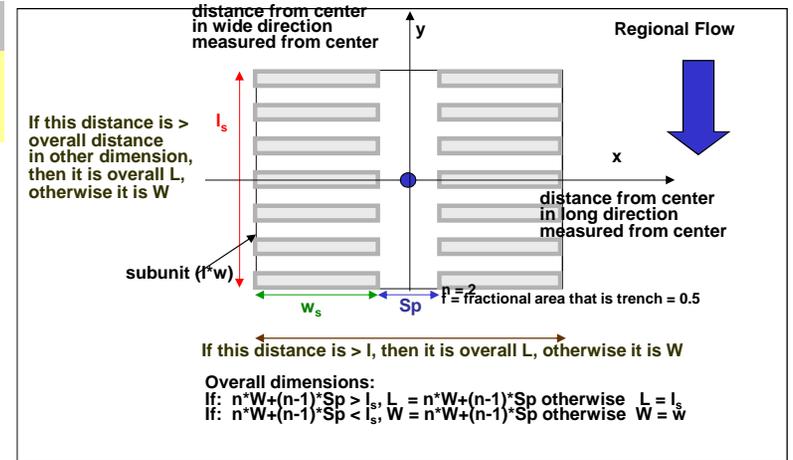
BORING No. B2

Water Table Mounding calculated based on Hantush 1967, WRR

Enter data in green cells as per their yellow labels, other values will be computed from those entries.

Results are highlighted in pink.

Zmax Beneath Center of Entire Drain Field (L*W)								
Meters and Days	Length of Drain Field Subunit	Width of Drain Field Subunit		Separation between Drain Field Subunits	Fraction of Drain Field Subunit that is Trench Area	Horizontal Hydraulic Conductivity	Specific Yield use 0.001 to approximate steady state at 10 years	time use 10 years to approximate steady state
	l_s	w_s		Sp	f	Kh	Sy	time
	ft	ft		ft		ft/days	none	days
	210	100		2	0.5	131	0.28	90
Number of subunits, n	L	W	q effective in subunit $l_s \times w_s$	q in trenches	q' effective on LxW	Q	Zmax 12 iterations	Initial Saturated Thickness
	ft	ft	ft/day	ft/day	ft/day	gallons/day	ft	ft
2	210	202	1.0663	2.1116	1.0558	335000	2.080	96
3	304	210	0.7109	1.4031	0.7015	335000	1.959	96
4	406	210	0.5332	1.0506	0.5253	335000	1.858	96
5	508	210	0.4265	0.8396	0.4198	335000	1.772	96



Water Table Rise on Side Slope

Uses Subunit Geometry and Material Properties from Zmax Table

	L	W	q effective in subunit $l_s \times w_s$	q in trenches	q' effective on LxW	Q l/day	Zsx 12 iterations	Distance from Center of Drain Field in Long Dimension (x in figure)	Distance from Center of Drain Field in Wide Dimension (y in figure)	Initial Saturated Thickness
Number of subunits, n	ft	ft	ft/day	ft/day	ft/day	gallons/day	ft	ft	ft	ft
4	406	210	0.5332	1.0506	0.5253	335000	1.716	0	100	96
4	406	210	0.5332	1.0506	0.5253	335000	0.994	140	500	96
4	406	210	0.5332	1.0506	0.5253	335000	0.651	300	1000	96
4	406	210	0.5332	1.0506	0.5253	335000	0.393	1000	2000	96

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	1	0.064291069
1/2-inch	0.5	12.7			
			10.99852	1	0.090921302
3/8-inch	0.375	9.525			
			6.726347	3	0.44600729
4	0.187	4.75			
			3.082207	3	0.973328527
10	0.079	2			
			0.921954	34	36.87817783
40	0.017	0.425			
			0.32596	28	85.90007875
60	0.0098	0.25			
			0.193649	17	87.78762251
100	0.0059	0.15			
			0.106066	5.5	51.85449729
200	0.0030	0.075			
P/d _m				92.5	263.99

Assuming that n = 0.25

Then k = 2.214E-05 mm²
 or 2.214E-07 cm²

Hydraulic Conductivity

K = k * ρ * g * μ⁻¹

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.021657 cm/s
K = 61.39 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m(1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	2	0.128582139
1/2-inch	0.5	12.7			
			10.99852	2	0.181842604
3/8-inch	0.375	9.525			
			6.726347	4	0.594676387
4	0.187	4.75			
			3.082207	6	1.946657054
10	0.079	2			
			0.921954	32	34.70887325
40	0.017	0.425			
			0.32596	23	70.56077897
60	0.0098	0.25			
			0.193649	14	72.29568913
100	0.0059	0.15			
			0.106066	7.9	74.48191428
200	0.0030	0.075			
P/d _m				90.9	254.90

Assuming that n = 0.25

Then k = 2.375E-05 mm²
 or 2.375E-07 cm²

Hydraulic Conductivity

K = k * ρ * g * μ⁻¹

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.023230 cm/s
K = 65.85 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
(Todd, 1959)

$$k = \frac{n^3}{m(1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	0	0
1/2-inch	0.5	12.7			
			10.99852	0	0
3/8-inch	0.375	9.525			
			6.726347	1	0.148669097
4	0.187	4.75			
			3.082207	2	0.648885685
10	0.079	2			
			0.921954	59	63.99448506
40	0.017	0.425			
			0.32596	23	70.56077897
60	0.0098	0.25			
			0.193649	8	41.31182236
100	0.0059	0.15			
			0.106066	3.4	32.05550741
200	0.0030	0.075			
P/d_m				96.4	208.72

Assuming that n = 0.25

Then k = 3.542E-05 mm²
or 3.542E-07 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.034647 cm/s
K = 98.21 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
(Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	0	0
1/2-inch	0.5	12.7			
			10.99852	0	0
3/8-inch	0.375	9.525			
			6.726347	1	0.148669097
4	0.187	4.75			
			3.082207	1	0.324442842
10	0.079	2			
			0.921954	56	60.74052819
40	0.017	0.425			
			0.32596	30	92.03579866
60	0.0098	0.25			
			0.193649	10	51.63977795
100	0.0059	0.15			
			0.106066	1.1	10.37089946
200	0.0030	0.075			
P/d _m				99.1	215.26

Assuming that n = 0.25

Then k = 3.33E-05 mm²
or 3.33E-07 cm²

Hydraulic Conductivity

$$K = k * \rho * g * \mu^{-1}$$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.032573 cm/s
K = 92.33 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	3	0.136381953
3/4-inch	0.75	19.05			
			15.55426	4	0.257164277
1/2-inch	0.5	12.7			
			10.99852	3	0.272763907
3/8-inch	0.375	9.525			
			6.726347	5	0.743345484
4	0.187	4.75			
			3.082207	4	1.297771369
10	0.079	2			
			0.921954	37	40.1321347
40	0.017	0.425			
			0.32596	8	24.54287964
60	0.0098	0.25			
			0.193649	5	25.81988897
100	0.0059	0.15			
			0.106066	7	65.99663291
200	0.0030	0.075			
P/d_m				76	159.20

Assuming that n = 0.25

Then k = 6.089E-05 mm²
 or 6.089E-07 cm²

Hydraulic Conductivity

K = k * ρ * g * μ⁻¹

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.059554 cm/s
K = 168.81 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	1	0.045460651
3/4-inch	0.75	19.05			
			15.55426	5	0.321455347
1/2-inch	0.5	12.7			
			10.99852	1	0.090921302
3/8-inch	0.375	9.525			
			6.726347	3	0.44600729
4	0.187	4.75			
			3.082207	4	1.297771369
10	0.079	2			
			0.921954	66	71.58705108
40	0.017	0.425			
			0.32596	13	39.88217942
60	0.0098	0.25			
			0.193649	3	15.49193338
100	0.0059	0.15			
			0.106066	1.7	16.02775371
200	0.0030	0.075			
P/d _m				97.7	145.19

Assuming that n = 0.25

Then k = 7.321E-05 mm²
 or 7.321E-07 cm²

Hydraulic Conductivity

K = k * ρ * g * μ⁻¹

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.071600 cm/s
K = 202.96 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	4	0.257164277
1/2-inch	0.5	12.7			
			10.99852	0	0
3/8-inch	0.375	9.525			
			6.726347	4	0.594676387
4	0.187	4.75			
			3.082207	4	1.297771369
10	0.079	2			
			0.921954	47	50.97865759
40	0.017	0.425			
			0.32596	17	52.15361924
60	0.0098	0.25			
			0.193649	13	67.13171133
100	0.0059	0.15			
			0.106066	6	56.56854249
200	0.0030	0.075			
P/d_m				95	228.98

Assuming that n = 0.25

Then k = 2.943E-05 mm²
 or 2.943E-07 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.028786 cm/s
K = 81.60 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
(Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	0	0
1/2-inch	0.5	12.7			
			10.99852	0	0
3/8-inch	0.375	9.525			
			6.726347	0	0
4	0.187	4.75			
			3.082207	0	0
10	0.079	2			
			0.921954	12	13.01582747
40	0.017	0.425			
			0.32596	20	61.35719911
60	0.0098	0.25			
			0.193649	41	211.7230896
100	0.0059	0.15			
			0.106066	22	207.4179891
200	0.0030	0.075			
P/d _m				95	493.51

Assuming that n = 0.25

Then k = 6.336E-06 mm²
or 6.336E-08 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.006197 cm/s
K = 17.57 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability

Fair-Hatch Equation
 (Todd, 1959)

$$k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$$

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	3	0.192873208
1/2-inch	0.5	12.7			
			10.99852	2	0.181842604
3/8-inch	0.375	9.525			
			6.726347	4	0.594676387
4	0.187	4.75			
			3.082207	13	4.217756949
10	0.079	2			
			0.921954	44	47.72470072
40	0.017	0.425			
			0.32596	15	46.01789933
60	0.0098	0.25			
			0.193649	8	41.31182236
100	0.0059	0.15			
			0.106066	4	37.71236166
200	0.0030	0.075			
P/d_m				93	177.95

Assuming that n = 0.25

Then k = 4.873E-05 mm²
 or 4.873E-07 cm²

Hydraulic Conductivity

K = k * ρ * g * μ⁻¹

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.047662 cm/s
K = 135.11 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability $k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$
 Fair-Hatch Equation
 (Todd, 1959)

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	2	0.128582139
1/2-inch	0.5	12.7			
			10.99852	2	0.181842604
3/8-inch	0.375	9.525			
			6.726347	0	0
4	0.187	4.75			
			3.082207	8	2.595542738
10	0.079	2			
			0.921954	49	53.14796217
40	0.017	0.425			
			0.32596	14	42.95003938
60	0.0098	0.25			
			0.193649	6	30.98386677
100	0.0059	0.15			
			0.106066	3	28.28427125
200	0.0030	0.075			
P/d_m				84	158.27

Assuming that n = 0.25

Then k = 6.161E-05 mm²
 or 6.161E-07 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.060253 cm/s
K = 170.80 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability $k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$
 Fair-Hatch Equation
 (Todd, 1959)

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	9	0.289309812
1-inch	1	25.4			
			21.99705	7	0.318224558
3/4-inch	0.75	19.05			
			15.55426	8	0.514328555
1/2-inch	0.5	12.7			
			10.99852	3	0.272763907
3/8-inch	0.375	9.525			
			6.726347	8	1.189352774
4	0.187	4.75			
			3.082207	15	4.866642634
10	0.079	2			
			0.921954	44	47.72470072
40	0.017	0.425			
			0.32596	4	12.27143982
60	0.0098	0.25			
			0.193649	1	5.163977795
100	0.0059	0.15			
			0.106066	0	0
200	0.0030	0.075			
P/d_m				99	72.61

Assuming that n = 0.25

Then k = 0.0002927 mm²
 or 2.927E-06 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.286278 cm/s
K = 811.50 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability $k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$
Fair-Hatch Equation
(Todd, 1959)

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	2	0.128582139
1/2-inch	0.5	12.7			
			10.99852	1	0.090921302
3/8-inch	0.375	9.525			
			6.726347	3	0.44600729
4	0.187	4.75			
			3.082207	5	1.622214211
10	0.079	2			
			0.921954	45	48.80935301
40	0.017	0.425			
			0.32596	16	49.08575929
60	0.0098	0.25			
			0.193649	11	56.80375574
100	0.0059	0.15			
			0.106066	6	56.56854249
200	0.0030	0.075			
P/d_m				89	213.56

Assuming that n = 0.25

Then k = 3.384E-05 mm²
or 3.384E-07 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.033096 cm/s
K = 93.81 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability $k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$
 Fair-Hatch Equation
 (Todd, 1959)

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	0	0
1/2-inch	0.5	12.7			
			10.99852	0	0
3/8-inch	0.375	9.525			
			6.726347	0	0
4	0.187	4.75			
			3.082207	1	0.324442842
10	0.079	2			
			0.921954	3	3.253956867
40	0.017	0.425			
			0.32596	3	9.203579866
60	0.0098	0.25			
			0.193649	14	72.29568913
100	0.0059	0.15			
			0.106066	35	329.9831646
200	0.0030	0.075			
P/d_m				56	415.06

Assuming that n = 0.25

Then k = 8.958E-06 mm²
 or 8.958E-08 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.008761 cm/s
K = 24.84 ft/day

Estimating Intrinsic Permeability & Hydraulic Conductivity

Intrinsic Permeability $k = \frac{n^3}{m (1-n)^2 \left(\frac{\theta}{100} \sum \frac{P}{d_m} \right)^2}$
 Fair-Hatch Equation
 (Todd, 1959)

where

- n porosity
- m packing factor = 5
- θ sand shape factor ranging from 6.0 to 7.7, as angularity increases
- P percentage of sand held between adjacent sieves
- d_m geometric mean of rated sizes of adjacent sieves

Sieve No.	d (in)	d (mm)	d _m	P	P/d _m
6-inch	6	152.4			
			107.7631	0	0
3-inch	3	76.2			
			62.21704	0	0
2-inch	2	50.8			
			43.99409	0	0
1.5-inch	1.5	38.1			
			31.10852	0	0
1-inch	1	25.4			
			21.99705	0	0
3/4-inch	0.75	19.05			
			15.55426	0	0
1/2-inch	0.5	12.7			
			10.99852	1	0.090921302
3/8-inch	0.375	9.525			
			6.726347	1	0.148669097
4	0.187	4.75			
			3.082207	1	0.324442842
10	0.079	2			
			0.921954	92	99.7880106
40	0.017	0.425			
			0.32596	3	9.203579866
60	0.0098	0.25			
			0.193649	0	0
100	0.0059	0.15			
			0.106066	1	9.428090416
200	0.0030	0.075			
P/d_m				99	118.98

Assuming that n = 0.25

Then k = 0.000109 mm²
 or 1.09E-06 cm²

Hydraulic Conductivity

$K = k * \rho * g * \mu^{-1}$

Where

- k = intrinsic permeability, as calculated above
- ρ = 0.997 g/cm³
- g = 981 cm/s²
- μ = 0.01 g/(s*cm)

K = 0.106614 cm/s
K = 302.21 ft/day

