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1/11/05
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364 Littleton Road • Suite 4 • Westford, Massachusetts 01886 • (978) 392-0090 • Fax (978) 392-8583

November 23, 2005

Via Certified Mail
#7003-1010-0004-7661-9003

United States Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: **Notice of Intent for NPDES Remediation General Permit**
Mobil Service Station #11053 (formerly 01-323)
92 West Main Street
Hopkinton, Massachusetts
MADEP Site No. 2-0807
EPA-NPDES Permit Exclusion Reference #02-053

NOV 28

To Whom It May Concern:

On behalf of ExxonMobil Oil Corporation (ExxonMobil), Groundwater & Environmental Services, Inc. (GES) hereby submits the enclosed Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP) to continue operation of the Vacuum Enhanced Groundwater Extraction (VEGE) and Air Sparging (AS) remediation system at the above-referenced Mobil station located in Hopkinton, Massachusetts. A Site Locus and a Site Plan are included as Figures 1 and 2, respectively. The submittal of this RGP NOI is to meet the RGP requirements promulgated by United States Environmental Protection Agency (USEPA) in September 2005 and to convert the existing National Pollutant Discharge Elimination System (NPDES) Permit Exclusion to an RGP.

Since September 2002, the current remediation system has been operating as part of Phase IV and Phase V activities in accordance with the Massachusetts Contingency Plan (MCP, 310 CMR 40.0000) and has discharged treated groundwater under NPDES Permit Exclusion Reference #02-053. A copy of the March 28, 2002 USEPA letter granting the NPDES Permit Exclusion is included as Appendix A. The completed NOI form for the above-referenced site is included as Appendix B. The baseline untreated water (influent) analytical data to support the NOI is included as Appendix C. Additional sample analytical data for metals treated and discharged through the treatment system is included as Appendix D. Table 1 contains historical compliance sampling data, which has been submitted monthly to USEPA and to the Massachusetts Department of Environmental Protection (MADEP) since September 2002 under the NPDES Permit Exclusion and MCP. The historical data was used to calculate the average and maximum influent concentrations for the last two years.

As indicated on the attached As-Built Remedial System Layout and Process & Instrument Diagram (P&ID) included as Figures 4 and 5, respectively, groundwater is extracted from up to

As indicated on the attached As-Built Remedial System Layout and Process & Instrument Diagram (P&ID) included as Figures 4 and 5, respectively, groundwater is extracted from up to six groundwater recovery wells, treated by the remediation system, then discharged to the adjacent wetland area via the local storm water system. Since 2002, groundwater has primarily been recovered from two recovery wells, RW-1 and RW-4. As indicated in the P&ID (Figure 5) and Process Flow Diagram (Appendix E), the extracted groundwater is treated by an oil/water separator, an equalizer holding tank, sediment filtration, an air stripper, one 500-pound clay media adsorption filter, and two 1,000-pound liquid-phase granular activated carbon (LGAC) filters. Treated water discharges to the local storm drain at the southwestern corner of the Mobil site. The storm drain discharges to the unnamed wetlands west of the Mobil site.

The receiving wetland has a drainage area of approximately 0.05 square miles according to USEPA estimates, and is connected to a larger wetland area, which has an estimated area of approximately 5 square miles, to the north-northwest of the site across Elm Street. Based on the USGS Map of the Milford Quadrangle, the larger wetland area flows northeast and ultimately discharges to Indian Brook, then Hopkinton Reservoir, and the Sudbury River, which is located 5 miles downstream from the Mobil site and is classified according to 314 CMR 4.00 as a Massachusetts Class B Waterway.

According to analytical data from environmental investigations conducted as part of the MCP requirements and the recent baseline NOI sampling analytical data, the groundwater beneath the site is known to contain benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), naphthalene, and total petroleum hydrocarbons (TPH). However, during review of the system influent baseline sampling analytical data, GES noted the concentrations of copper, zinc, iron, and lead exceed the current RGP discharge limits. Based on the site history, these metal concentrations are likely associated with natural background conditions and not with the reported petroleum release. Furthermore, as indicated in Appendix D, analysis for these metals in the effluent of the treatment system indicates that the metal concentrations decrease to levels below the laboratory reporting limits and/or below the applicable RGP discharge limits during treatment.

Because metals are believed to be present at the site, calculations to determine dilution factors (DF) and the reasonable potential to exceed discharge limits for each metal of concern are necessary under the RGP requirements. To determine the dilution factor for the receiving waters, the RGP recommends using the closest river or stream gauging station data to determine the annual minimum flow for 7 consecutive days with a recurrence interval of 10 years (7Q10), and then calculate the DF based on the treatment system maximum flow. However, because the Mobil site treatment system first discharges to a wetland area and because the closest gauging station is approximately 15 miles downstream on the Sudbury River, gauging station data is not representative of receiving water conditions.

GES consulted with Mr. George Papadopoulos of USEPA throughout the process of compiling this RGP NOI. Mr. Papadopoulos indicated that given the subject receiving wetland drainage area of approximately 0.05 square miles and the nature of the subject receiving wetlands, the DF for the discharge from the remediation system will be essentially zero. Mr. Papadopoulos also indicated that USEPA is likely to allow a 6 to 9-month compliance period given the

predominance of some metals in groundwater throughout New England. As part of the RGP compliance, GES plans to continue to monitoring the concentrations of copper, zinc, lead, and iron through the treatment system to determine if the existing system is capable of reducing the metal concentrations below the RGP discharge limits for receiving waters with a dilution factor of 0 to 5.

To complete the attached NOI, GES used the following assumptions and calculations:

- The maximum design flow of the groundwater treatment system is 10 gallons per minute (gpm).
- The maximum total flow during the last three years has ranged from 0.2 to 0.8 gpm. Therefore, the average total flow is estimated at 2.5 gpm assuming that all six recovery wells operate at one time.
- To determine the maximum and average daily concentrations, GES used data from the fourteen influent compliance samples collected during the last two years and/or the RGP NOI baseline sample for constituents not previously analyzed.
- To determine the maximum and the average daily mass, GES used the daily concentrations and then calculated the daily mass by converting the concentrations with following formulas:
 - Daily Mass (kg/day) = Flow (L/day) x Concentration ($\mu\text{g/L}$) x $10\text{E-}9$ kg/ μg .
 - Mass (kg/day) = Flow (gpm) x Concentration ($\mu\text{g/L}$) x $5.44 \text{ E-}6$, using 10 gpm for maximum flow and 2.5 gpm for average flow.

Based on the sampling data generated as part of this NOI, GES' professional opinion is that the subject discharge can be classified as RGP Subcategory IA (Gasoline Only site). Pursuant to GES' conversation with Mr. Papadopoulos, GES' understanding is that operation of remedial system will continue under the current NPDES Permit Exclusion until GES receives notice from USEPA that the RGP Permit for this site has been granted. Monitoring, sampling, and submittal of monthly monitoring reports will continue in accordance to the current NPDES Permit Exclusion until GES receives further guidance and/or notification. Following issuance of the RGP Permit, GES will implement compliance monitoring and sampling in accordance with the applicable RGP monitoring requirements for "Gasoline Only Sites."

If you have any questions regarding this submittal, please feel free to contact the undersigned at (978) 392-0090.

Sincerely,

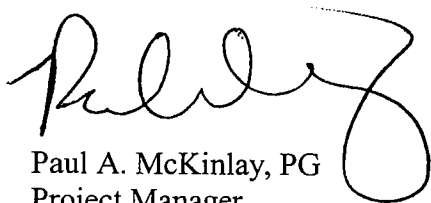
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.



Darrell C. Interest
Staff Engineer



Christophe M. Henry, PE, LSP
Senior Project Manager



Paul A. McKinlay, PG
Project Manager

Attachments:

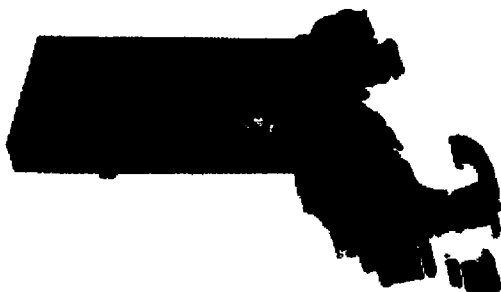
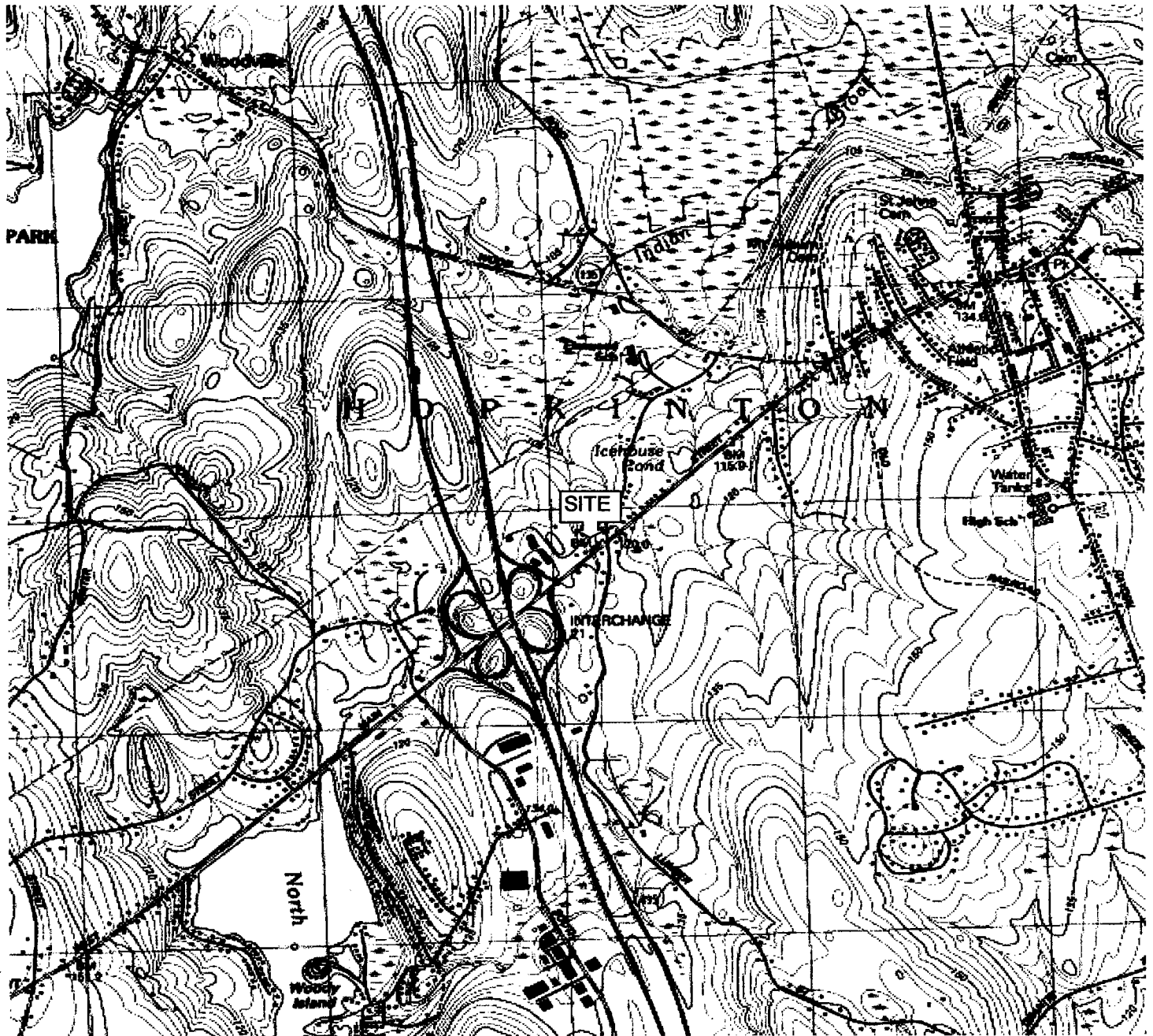
Figure 1 Site Locus Map
Figure 2 Site Map
Figure 3 Site Scoring Map
Figure 4 As-Built Remedial System Layout
Figure 5 Process & Instrumentation Diagram (Groundwater Recovery)
Figure 6 Process & Instrumentation Legend
Table 1 Groundwater Treatment Analytical Data Summary Table (9/02-10/05)
Appendix A Copy of the USEPA NPDES Permit Exclusion letter (3/28/02)
Appendix B Remedial General Permit Notice of Intent Form
Appendix C Copy of NOI Baseline System Influent Analytical Report (10/13/05)
Appendix D Copy of Additional Metal Sampling Data (11/1/05)
Appendix E Process Flow Diagram

C: Mobil File
Stefan A. Sokol, LSP- GES
Conservation Commission, Town of Hopkinton

Figures



GROUNDWATER &
ENVIRONMENTAL SERVICES, INC.



PORTION OF MILFORD, MASSACHUSETTS
USGS QUADRANGLE

SITE LOCUS

Mobil Service Station 01-323
92 West Main Street
Hopkinton, Massachusetts

NORTH



SCALE

0 feet 2,083
1: 25,000

DATE:

3-Oct-00

JOB NO:

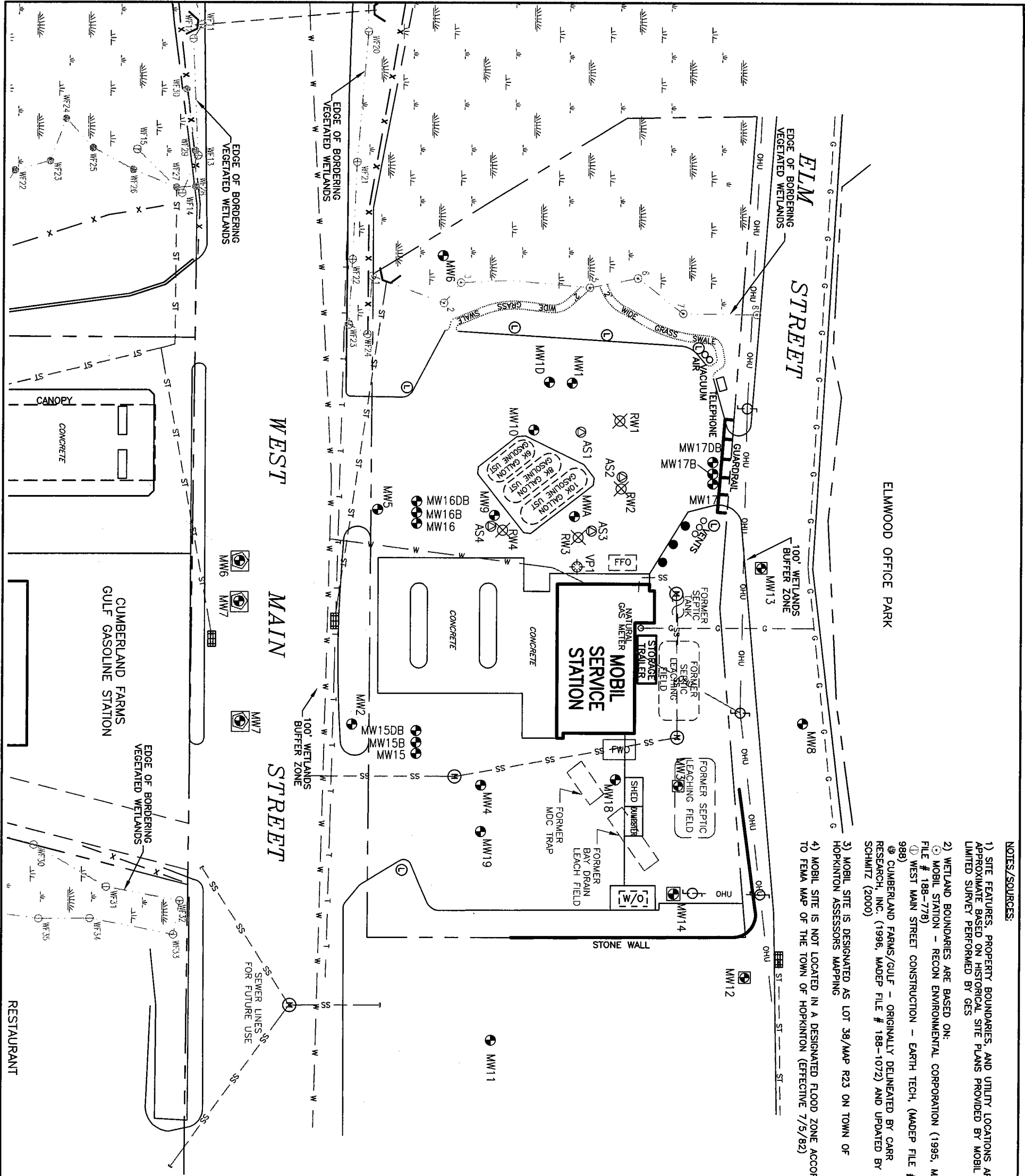
1600274

Drawn by:

ALM

FIGURE NO:

1



- NOTES/SOURCES:**
- 1) SITE FEATURES, PROPERTY BOUNDARIES, AND UTILITY LOCATIONS ARE APPROXIMATE BASED ON HISTORICAL SITE PLANS PROVIDED BY MOBIL AND LIMITED SURVEY PERFORMED BY GES
 - 2) WETLAND BOUNDARIES ARE BASED ON:
① MOBIL STATION - RECON ENVIRONMENTAL CORPORATION (1995, MADEP FILE # 188-778)
② WEST MAIN STREET CONSTRUCTION - EARTH TECH, (MADEP FILE # 988)
③ CUMBERLAND FARMS/GULF - ORIGINALLY DELINEATED BY CARR RESEARCH, INC. (1996, MADEP FILE # 188-1072) AND UPDATED BY J. SCHMITZ (2000)
 - 3) MOBIL SITE IS DESIGNATED AS LOT 38/MAP R23 ON TOWN OF HOPKINTON ASSESSORS MAPPING
 - 4) MOBIL SITE IS NOT LOCATED IN A DESIGNATED FLOOD ZONE ACCORDING TO FEMA MAP OF THE TOWN OF HOPKINTON (EFFECTIVE 7/5/82)

- LEGEND**
- FFO FORMER FUEL OIL TANK
 - FWO FORMER WASTE OIL TANK
 - [W/O] WASTE OIL TANK
 - PROPERTY BOUNDARY
 - x FENCE
 - Catch Basin
 - Utility Pole
 - Light Pole
 - Utility Manhole
 - Dispenser Island
 - Monitoring Well
 - Destroyed Monitoring Well
 - Air Sparge Well
 - Recovery Well
 - Vapor Point
 - Wetlands Survey Flag (Recon)
 - Wetlands Survey Flag (DOT Construction)
 - Wetlands Survey Flag (Cumberland Farms)
 - Edge of Bordering Vegetated Wetlands
 - 100' Wetlands Buffer Zone
 - Underground Gas
 - Underground Water
 - Overhead Utilities
 - Underground Sanitary Sewer Line
 - Underground Stormwater Sewer Line

FIGURE CREATED 1-15-02, REVISED 6-24-02.

DRAFTED BY: W.G.S. (N.J.)	SITE MAP		
CHECKED BY:	MOBIL SERVICE STATION #11053 (01-323) 92 WEST MAIN STREET HOPKINTON, MASSACHUSETTS		
REVIEWED BY:	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD SUITE 4 WESTFORD, MA 01886		
NORTH	SCALE IN FEET	DATE	FIGURE
	0 40	4-11-05	2

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

Mobil Service Station 11053
32 West Main Street
HOPKINTON, MA 01748
885221n 196547ew



The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Massachusetts
Geographic
Information
System



Massachusetts Executive Office of Environmental Affairs - 2005



Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams

Potentially Productive Aquifers: Medium, High Yield

Non-Potential Drinking Water Source Area: Medium, High Yield

EPA Sole Source Aquifer; FEMA 100-year floodplain

Public Water Supplies: Ground, Surface, Non Community

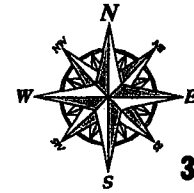
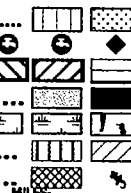
Approved Zone2; IWPA; Surface Water Supply Zone A

Hydrography: Water Features, Public Surface Water Supply

Wetlands: Fresh, Salt, NHESP Wetlands Habitat

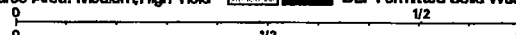
Protected Open Space; ACEC

DEP Permitted Solid Waste Facilities; Certified Vernal Pools

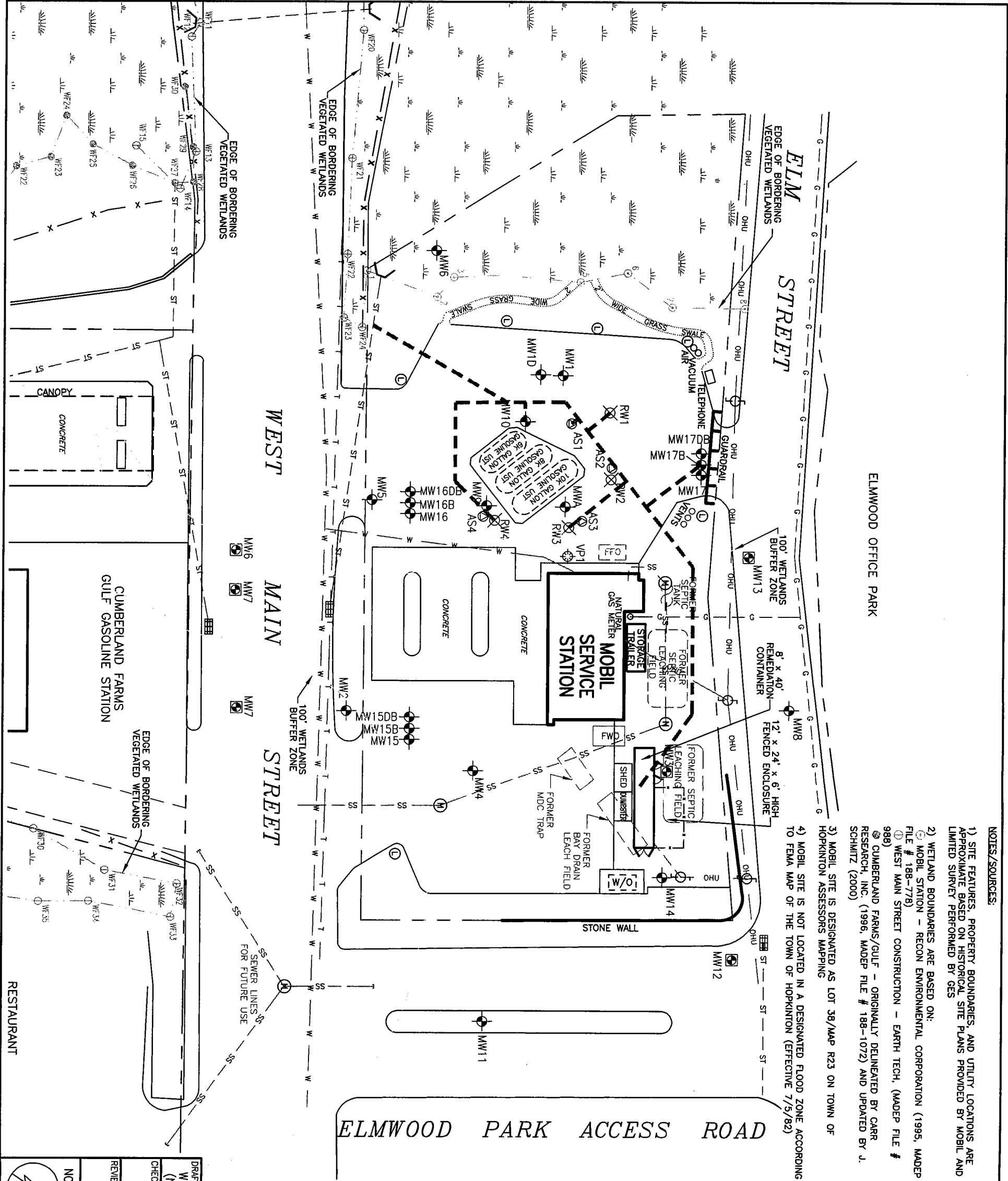


3

SCALE 1:15000



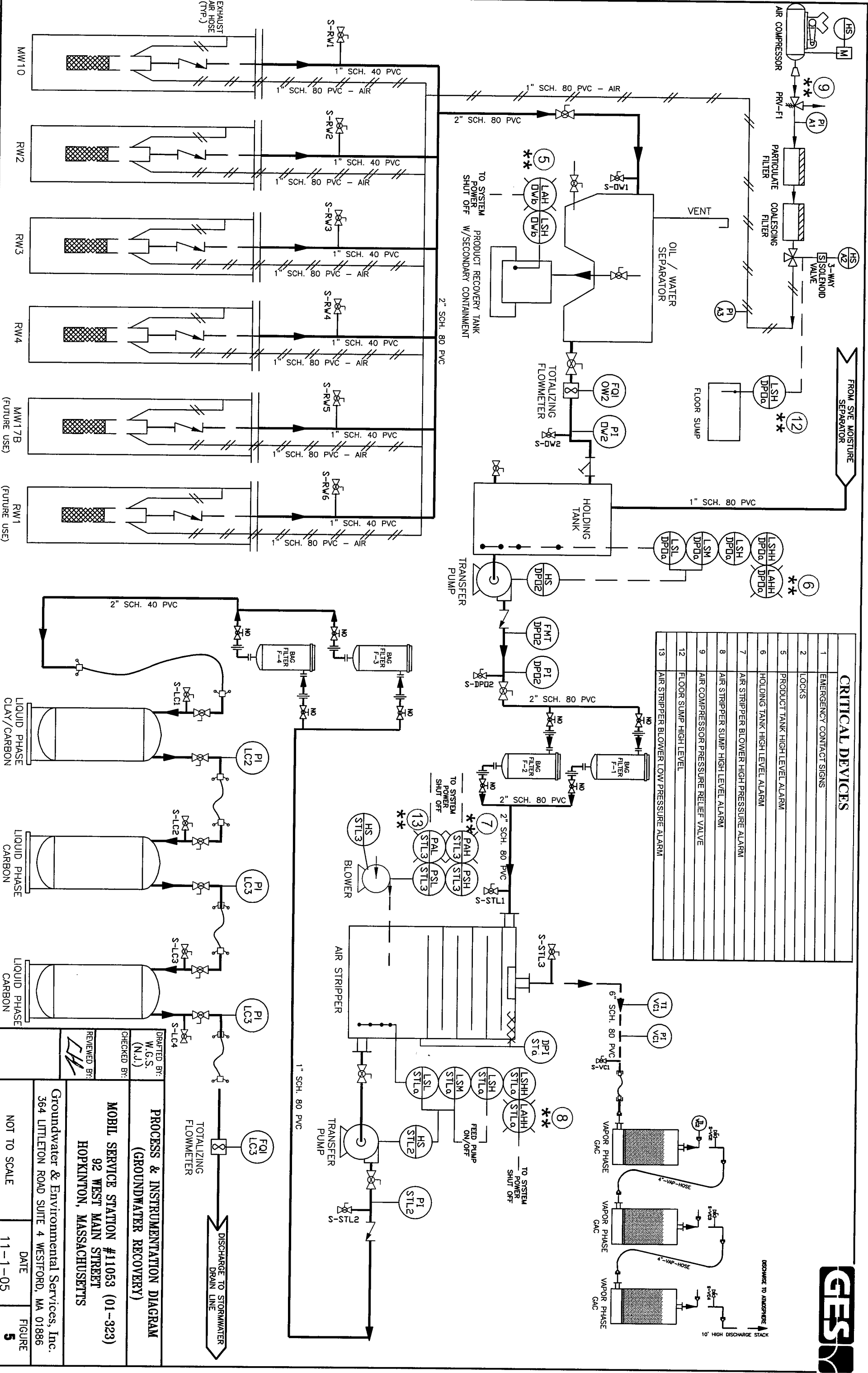
October 26, 2005

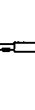
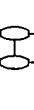
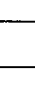
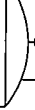


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- LEGEND**
- FFO FORMER FUEL OIL TANK
 - FWO FORMER WASTE OIL TANK
 - [W/O] WASTE OIL TANK
 - PROPERTY BOUNDARY
 - FENCE
 - CATCH BASIN
 - UTILITY POLE
 - LIGHT POLE
 - UTILITY MANHOLE
 - DISPENSER ISLAND
 - MONITORING WELL
 - DESTROYED MONITORING WELL
 - GULF SERVICE STATION WELL
 - AIR SPARGE WELL
 - RECOVERY WELL
 - VAPOR POINT
 - WETLANDS SURVEY FLAG (RECON)
 - WETLANDS SURVEY FLAG (DOT CONSTRUCTION)
 - WETLANDS SURVEY FLAG (CUMBERLAND FARMS)
 - EDGE OF BORDERING VEGETATED WETLANDS
 - 100' WETLANDS BUFFER ZONE
 - UNDERGROUND GAS
 - UNDERGROUND WATER
 - OVERHEAD UTILITIES
 - UNDERGROUND SANITARY SEWER LINE
 - UNDERGROUND STORMWATER SEWER LINE
 - SYSTEM UTILITY TRENCH (2-4' WIDE)

DRAFTED BY: W.G.S. (N.J.)		AS-BUILT REMEDIAL SYSTEM LAYOUT	
CHECKED BY:		MOBIL SERVICE STATION #11053 (01-323)	
REVIEWED BY:		92 WEST MAIN STREET	
		HOPKINTON, MASSACHUSETTS	
Groundwater & Environmental Services, Inc.			
364 LITTLETON ROAD SUITE 4 WESTFORD, MA 01886			
SCALE IN FEET		DATE	FIGURE
0 40		5-6-04	4



CONTROL VALVE BODIES		ACTUATORS/ REGULATORS		MEASURING DEVICE SYMBOLS:	
	BALL VALVE		GEAR ACTUATOR		SINGLE PORT PITOT TUBE
	GATE VALVE		PRESSURE RELIEF		AVERAGING PITOT TUBE
	GLOBE VALVE		DIAPHRAGM ACTUATOR		POSITIVE DISPLACEMENT FLOW INDICATOR
	BUTTERFLY VALVE		HYDRAULIC ACTUATOR		VORTEX SENSOR
	SWING CHECK VALVE		SOLENOID ACTUATOR		SONIC FLOW METER
	DIAPHRAGM VALVE		MOTOR ACTUATOR		ROTAMETER FLOW INDICATOR
	BALL CHECK VALVE		DIGITAL ACTUATOR		TARGET TYPE SENSOR
	NEEDLE VALVE		WATER ACTUATOR		WEIR
	3 WAY VALVE		REGULATOR		VENTURI TYPE FLOW ELEMENT
	4 WAY VALVE		FLOW INDICATOR		FLOW NOZZLE
	FOOT VALVE		PRESSURE RELIEF VALVE		ORIFICE PLATE FLOW ELEMENT
	VACUUM RELIEF VALVE				
VALVE ABBREVIATIONS		MATERIAL SPECIFICATION:			
N.C. - NORMALLY CLOSED		PV - POLYVINYL CHLORIDE			
N.O. - NORMALLY OPEN		GM - GALVANIZED			
MAN - MANUAL		RC - RIGID COPPER			
		IR - IRON			
		ABS - ACRYLONITRILE BUTADIENE STYRENE			
		FL - FLEX			
PROCESS LINE INDICATORS		PROCESS LINE ABBREVIATIONS			
		ES - ELECTRIC SUPPLY			
FLOW DIRECTION		GS - GAS SUPPLY			
		HS - HYDRAULIC SUPPLY			
MAJOR PROCESS		NS - NITROGEN SUPPLY			
		SS - STEAM SUPPLY			
MINOR PROCESS		W - WATER SUPPLY			
		V - VACUUM			
WATER/AIR PIPING		VR - VAPOR REMOVAL			
		TF - TOTAL FLUIDS			
AIR PIPING		AP - ACCESS PIPE / CONDUIT			
		SA - SPARGE AIR			
INSTRUMENTATION CONTROLS		PN - PNEUMATIC SUPPLY			
					
PNEUMATIC LINE					
					
CONNECTING LINE					
					
CROSSOVER LINE					
FITTINGS & PIPING					
		VICTUALC CONNECTOR			
		FLANGED CONNECTION			
		SCREWED CONNECTION			
		UNION			
		COUPLING			
		RUPTURE DISK			
		REDUCER			
		STRAINER			
		FLOW RESTRICTOR			
		FLEX HOSE			
		CAM LOCK			
		REMOVABLE CLEAR PIPE			
		EXPANSION JOINT/SLEEVE			
		HOSE CONNECTION			
		PNEUMATIC QUICK CONNECT			
		PLUG			
		PIPE CAP			
		SLIP UPDRAFT VENT CAP			
		ELBOW - TURNED UP			
		ELBOW - TURNED DOWN			
		ELBOW - 90°			
		ELBOW - 45°			
		ELBOW - LONG RADIUS			
		REDUCING ELBOW			
		TEE REDUCING			
		TEE (OUTLET UP)			
		TEE (OUTLET DOWN)			
		TEE			
SYMBOL & LEGEND SHEET EQUIPMENT					
		LEVEL SWITCH FLOATS			
		BAG FILTER			
		LIQUID RING PUMP			
		CENTRIFUGAL PUMP			
		ROTARY VANE COMPRESSOR			
		DISPLACEMENT PUMP			
		PRODUCT DRUM			
		AIR FILTER			
		POSITIVE DISPLACEMENT BLOWER			
		CENTRIFUGAL BLOWER PUMP			
		HEATER			
		PACKED COLUMN AIR STRIPPING TOWER			
		OIL-COALESING & PARTICULATE FILTER			
		WATER SOURCE			
		LIQUID PUMP HOLDING TANK			
INSTRUMENTATION:					
		PILOT LIGHT OR ALARM INDICATOR			
		INSTRUMENTS WITH INPUTS OR OUTPUTS AT THE SITE CONTROL PANEL			
		LOCAL MOUNTED INSTRUMENT			
		REFERENCE POINT FOR DESIGN ONLY NOT ACTUAL INSTALLED INSTRUMENT. OPTIONAL FIELD MOUNTED INSTRUMENT TO BE INSTALLED AT THIS LOCATION IF CHOSEN.			
		INSTRUMENT TYPE			
		SYSTEM POSITION NUMBER			
		INSTRUMENT TYPE/DESIGNATION: 			
INSTRUMENT TYPE/DESIGNATION:					
PI	PRESSURE INDICATOR	PS	PRESSURE SWITCH	PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW	DPS	DIFFERENTIAL PRESSURE SWITCH	PC	PRESSURE CONTROL
PAH	PRESSURE ALARM HIGH	PAL	PRESSURE ALARM LOW	FI	FLOW INDICATOR
FM	FLOW METER	FS	FLOW SWITCH	FS	FLOW METER (TOTALIZING)
TI	TEMPERATURE INDICATOR	TSH	TEMPERATURE SWITCH HIGH	TSL	TEMPERATURE SWITCH LOW
TT	TEMPERATURE TRANSDUCER	TAH	TEMPERATURE ALARM HIGH	TAL	TEMPERATURE ALARM LOW
LSL	LEVEL SWITCH LOW	LSL	LEVEL SWITCH LOW	LSM	LEVEL SWITCH MIDRANGE
LSH	LEVEL SWITCH HIGH	LSH	LEVEL SWITCH HIGH	LAL	LEVEL ALARM LOW
LAL	LEVEL ALARM LOW	LAL	LEVEL ALARM LOW	LAL	LEVEL ALARM HIGH
LAL	LEVEL ALARM HIGH	CP	CAPACITIVE SENSOR/PROBE	S	SAMPLE PORT
SYSTEM DESIGNATION:					
ASW	AIR SPARGE WELL & MANIFOLD	ASW	AIR SPARGE WELL & MANIFOLD	ASW	AIR SPARGE WELL & MANIFOLD
VEW	VAPOR EXTRACTION WELL & MANIFOLD	VEW	VAPOR EXTRACTION WELL & MANIFOLD	VEW	VAPOR EXTRACTION WELL & MANIFOLD
DPW	DUAL PHASE WELL & MANIFOLD	DPW	DUAL PHASE WELL & MANIFOLD	DPW	DUAL PHASE WELL & MANIFOLD
ERW	ELECTRIC RECOVERY WELL & PUMP	ERW	ELECTRIC RECOVERY WELL & PUMP	ERW	ELECTRIC RECOVERY WELL & PUMP
PRW	PNEUMATIC RECOVERY WELL & PUMP	PRW	PNEUMATIC RECOVERY WELL & PUMP	PRW	PNEUMATIC RECOVERY WELL & PUMP
VER	VAPOR EXTRACTION REGENERATIVE BLOWER	VER	VAPOR EXTRACTION REGENERATIVE BLOWER	VER	VAPOR EXTRACTION REGENERATIVE BLOWER
ASV	AIR SPARGE ROTARY VANE COMPRESSOR	ASV	AIR SPARGE ROTARY VANE COMPRESSOR	ASV	AIR SPARGE ROTARY VANE COMPRESSOR
ASB	AIR SPARGE POSITIVE DISPLACEMENT BLOWER	ASB	AIR SPARGE POSITIVE DISPLACEMENT BLOWER	ASB	AIR SPARGE POSITIVE DISPLACEMENT BLOWER
DPL	DUAL PHASE SEALED LIQUID RING PUMP	DPL	DUAL PHASE SEALED LIQUID RING PUMP	DPL	DUAL PHASE SEALED LIQUID RING PUMP
DPB	DUAL PHASE POSITIVE DISPLACEMENT BLOWER	DPB	DUAL PHASE POSITIVE DISPLACEMENT BLOWER	DPB	DUAL PHASE POSITIVE DISPLACEMENT BLOWER
OW	OIL-WATER SEPARATOR SYSTEM	OW	OIL-WATER SEPARATOR SYSTEM	OW	OIL-WATER SEPARATOR SYSTEM
STL	VAPOR PHASE CARBON	STL	VAPOR PHASE CARBON	STL	VAPOR PHASE CARBON
LC	LIQUID PHASE CARBON	LC	LIQUID PHASE CARBON	LC	LIQUID PHASE CARBON
PROCESS & INSTRUMENTATION DIAGRAM LEGEND					
DRAFTED BY: W.G.S. (N.J.)					
CHECKED BY:					
REVIEWED BY:					
MOBIL SERVICE STATION #11053 (01-323) 92 WEST MAIN STREET HOPKINTON, MASSACHUSETTS					
Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD SUITE 4 WESTFORD, MA 01886					
NOT TO SCALE		DATE		FIGURE	
		5-21-05		6	

Table

NPDES Permit Exclusion Reference No. 02-053



Date of Visit	Sep-02						Oct-02		Nov-02		Dec-02	Mar-03	Feb-03	Apr-03	May-03	Jun-03	Jul-03		Dec-03
	09/03/02	09/05/02	09/09/02	09/11/02	09/18/02	09/26/02	10/04/02	10/11/02	11/07/02	11/13/02	12/05/02	01/28/03	02/05/03	04/28/03	05/05/03	06/06/03	07/07/03	07/23/03	12/10/03
Influent to Air Stripper																			
Benzene	NS	319	414	536	790	8.9	825	700	657	604	338	50	165	205	170	100	50.00	1.00	74.0
Toluene	NS	102	134	88.1	254	3.9	306	232	412	1500	428	50	350	335	260	130	50.00	1.00	97.0
Ethylbenzene	NS	68	50	4.3	20	1	10	25	20	158	110	50	80	310	180	50	50.00	1.00	59.0
Total Xylenes	NS	615	917	1210	2,240	29	2,650	2,030	3,490	4,140	2,890	340	1,580	1,970	1,650	1,120	50.00	1.00	597.0
Total BTEX	NS	1,104	1,465	1,838	3,284	42	3,781	2,962	4,559	6,402	3,766	340	2,175	2,820	2,260	1,350	200	4.0	827
MTBE	NS	22,200	26,900	43,500	32,000	323	17,500	17,900	14,800	10,200	9,450	3,160	5,360	3,840	3,580	6,720	2,020	386	526.0
Color, Apparent (CU)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons GRO (mg/L)	NS	28.2	40.6	57.4	43.9	0.514	29.2	28.9	32.6	31.8	21.9	7.87	20.4	15.40	17.60	11.80	5.00	0.34	5.760
Petroleum Hydrocarbons DRO (mg/L)	NS	1.54	1.9	1.3	1.18	1.82	2.4	1.34	11.3	9.97	7.43	3.69	5.13	2.28	3.98	2.61	1.94	0.22	1.520
Solids, Total Suspended (mg/L)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Effluent of GAC (NPDES Discharge Limit) ⁽²⁾																			
Benzene (5)	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Ethylbenzene	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Xylene	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total BTEX (100)	NS	4.0	4.0	4.0	4.0	4.0	2.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	1.6	4.0	4.0	4.0
MTBE (70)	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.5	1.0	22.3	1.0
Color, Apparent (CU)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons (5) GRO (mg/L)	NS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Petroleum Hydrocarbons (5) DRO (mg/L)	NS	0.21	0.22	0.21	0.21	0.20	0.21	0.21	0.21	0.20	0.23	3.72	0.11	0.10	0.14	0.10	7.80	0.23	0.59
Solids, Total Suspended (mg/L)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

NOTES:

CU Color Units

mg/L milligrams per liter

NTU Nephelometric Turbidity Units

BTEX Benzene, Toluene, Ethylbenzene, and Xylene

MTBE Methyl Tertiary-Butyl Ether

GRO Gasoline Range Organics

DRO Diesel Range Organics

NS Not Sampled

GAC Granular Activated Carbon

Bolded values exceed applicable NPDES discharge limits

- (1) All data in micrograms per liter (ug/L) unless noted otherwise.
- (2) Refer to NPDES Permit Exclusion #02-053, March 28, 2002.
- (3) In accordance with USEPA approval on 9/4/2002, lab analysis of TSS, color, and turbidity was replaced by visual observation.
- (4) TPH-GRO influent and effluent samples collected on July 7, 2003 were likely switched.
- (5) Re-analysis of sample by laboratory indicated that sample mismanagement at laboratory may have occurred.



TABLE 1: GROUNDWATER TREATMENT SYSTEM ANALYTICAL DATA SUMMARY (9/2002 - 10/2005)

Mobil Service Station No. 11053 (01-323)
92 West Main St
Hopkinton, MA
NPDES Permit Exclusion Reference No. 02-053

Date of Visit		Jan-04	Feb-04	Mar-04	Apr-04	May-04		Jun-04	Jul-04	Aug-04		Sep-04
01/06/04		N/S	03/02/04	04/12/04	05/06/04	05/25/04	06/02/04	07/07/04	08/04/04	08/19/04	08/24/04	09/08/04
Influent to Air Stripper												
Benzene	18.5	NS	5.00	40.5	32.0	19.0	19.5	21.4	3.5	1.6	1.0	1.0
Toluene	7.5	NS	5.00	74.8	1.0	22.0	12.0	31.1	1.1	1.8	1.0	1.0
Ethylbenzene	9.0	NS	5.00	15.6	23.3	14.0	44.5	11.8	1.00	1.00	3.4	1.0
Total Xylenes	71.0	NS	15.00	2,000	1,210	336	206	339	14.0	9.6	10.2	3.0
Total BTEX	106	NS	30	2,131	1,266	391	282	403	19	13	14	6
MTBE	614.0	NS	560	3,750	2,340	762	610	707	386.0	531.0	102.0	392.0
Color, Apparent (CU)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons GRO (mg/L)	1,430	NS	0.62	11.30	9.58	3.40	2.79	3.94	0.458	0.582	0.160	0.348
Petroleum Hydrocarbons DRO (mg/L)	2,480	NS	4.63	1.60	1.30	1.62	1.69	3.05	2.180	6.140	0.303	1.380
Solids, Total Suspended (mg/L)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Effluent of GAC (NPDES Discharge Limit) ⁽²⁾												
Benzene (5)	1.0	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	1.0	NS	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0
Ethylbenzene	1.0	NS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Xylene	1.0	NS	3.0	3.0	81.8	3.0	3.0	3.7	3.0	3.0	3.0	3.0
Total BTEX (100)	4.0	NS	6.0	6.0	84.8	6.0	6.0	4.8	6.0	6.0	6.0	6.0
MTBE (70)	1.0	NS	3.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	93.5
Color, Apparent (CU)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons (5) GRO (mg/L)	0.10	NS	0.10	0.10	8.38	0.10	0.10	0.12	0.10	0.10	0.10	0.10
Petroleum Hydrocarbons (5) DRO (mg/L)	0.26	NS	0.28	0.10	1.30	0.25	0.16	0.10	12.60	17.60	0.10	0.10
Solids, Total Suspended (mg/L)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	(3)	NS	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

NOTES:

- CU

Color Units
- mg/L

milligrams per liter
- NTU

Nephelometric Turbidity Units
- BTEX

Benzene, Toluene, Ethylbenzene, and Xylene
- MTBE

Methyl Tertiary-Butyl Ether
- GRO

Gasoline Range Organics
- DRO

Diesel Range Organics
- NS

Not Sampled
- GAC

Granular Activated Carbon
- Bolded values exceed applicable NPDES discharge limits
- (1)

All data in micrograms per liter (ug/L) unless noted otherwise.
- (2)

Refer to NPDES Permit Exclusion #02-053, March 28, 2002.
- (3)

In accordance with USEPA approval on 9/4/2002, lab analysis of TSS, color, and turbidity was replaced by visual observation.
- (4)

TPH-GRO influent and effluent samples collected on July 7, 2003 were likely switched.
- (5)

Re-analysis of sample by laboratory indicated that sample mismanagement at laboratory may have occurred.



TABLE 1: GROUNDWATER TREATMENT SYSTEM ANALYTICAL DATA SUMMARY (9/2002 - 10/2005)

Mobil Service Station No. 11053 (01-323)
92 West Main St
Hopkinton, MA
NPDES Permit Exclusion Reference No. 02-053

Date of Visit	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05
System Sample Analytical Results (mg/L)													
Influent to Air Stripper													
Benzene	1.00	1.30	8.60	2.50	5.00	1.00	1.00	57.3	44.0	1.0	28.2	9.0	20.6
Toluene	4.1	1.2	3.2	1.0	6.9	2.9	1.0	242	242	1.0	63	5.05	30.2
Ethylbenzene	1.0	1.0	2.7	1.0	1.0	1.0	1.0	898	300	1.0	235	1.64	24.6
Total Xylenes	4.4	3.0	6.6	3.0	19.1	27.2	3.0	4,080	3,360	37.7	1,570	208	985
Total BTEx	11	3	21	8	32	32	6	5,277	3,946	41	1,896	224	1,060
MTBE	5,210	3,780	164	785	1,060	1,080	184	1,360	822	477	2,730	273	812
Color, Apparent (CU)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons GRO (mg/L)	4.940	6.210	0.352	0.906	0.792	1.260	0.199	20,400	13,200	0.757	10,800	1,570	6,290
Petroleum Hydrocarbons DRO (mg/L)	0.997	1.240	0.890	0.889	1.230	0.924	0.557	2,260	2,070	1.080	1,860	1,180	2,130
Solids, Total Suspended (mg/L)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Effluent of GAC (NPDES Discharge Limit) ⁽²⁾													
Benzene (5)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Ethylbenzene	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Xylene	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	7.7
Total BTEx (100)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	7.7
MTBE (70)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Color, Apparent (CU)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Petroleum Hydrocarbons (5) GRO (mg/L)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.46
Petroleum Hydrocarbons (5) DRO (mg/L)	0.10	0.33	0.10	0.97	0.10	0.10	0.20	0.10	0.10	0.11	0.10	0.10	0.15
Solids, Total Suspended (mg/L)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Turbidity (NTU)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

NOTES:

- CUColor Units
- mg/Lmilligrams per liter
- NTUNephelometric Turbidity Units
- BTEXBenzene, Toluene, Ethylbenzene, and Xylene
- MTBEMethyl Tertiary-Butyl Ether
- GROGasoline Range Organics
- DRODiesel Range Organics
- NSNot Sampled
- GACGranular Activated Carbon
- Bolded values exceed applicable NPDES discharge limits

- (1)All data in micrograms per liter (ug/L) unless noted otherwise.
- (2)Refer to NPDES Permit Exclusion #02-053, March 28, 2002.
- (3)In accordance with USEPA approval on 9/4/2002, lab analysis of TSS, color, and turbidity was replaced by visual observation.
- (4)TPH-GRO influent and effluent samples collected on July 7, 2003 were likely switched.
- (5)Re-analysis of sample by laboratory indicated that sample mismanagement at laboratory may have occurred.

APPENDIX A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 1

1 CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

March 28, 2002

Mr. David Baker
ExxonMobil Corporation
1800 West Park Drive, Suite 450
Westborough, MA 01581

Re: NPDES Permit Exclusion for the installation and operation of a groundwater extraction and air sparging treatment system at Mobil Station No. 11053 located at 92 West Main Street in Hopkinton, Massachusetts.
NPDES Permit Exclusion Reference #02-053

Dear Mr. Baker:

Based on the information provided by Scott Marcoulier of Groundwater & Environmental Services, Inc., you are granted, pursuant to Title 40 of the Code of Federal Regulations, Part 122.3(d), exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES), in order that installation and operation of a groundwater extraction and air sparging treatment system may begin in a timely fashion.

Subject to other controls that may be established by the State of Massachusetts, and the Town of Hopkinton, you are authorized to discharge up to 10 gallons of water per minute through a treatment system consisting of a groundwater depression leading to a vapor/liquid separator, filter and granular activated carbon, sized appropriately for the anticipated flow, prior to discharge to a wetland leading to Indian River. The discharge must be done in accordance with the following provisions:

1. No discharge of oil, sufficient to cause a sheen (as defined in 40 CFR 110), occurs to the drainage system. The discharge of a sheen of oil, or gasoline, constitutes an oil spill and must be reported, immediately, to the National Response Center (NRC) at (800) 424-8802.
2. Security provisions are maintained to assure that system failure, vandalism, or other incident will be addressed in a timely fashion, preventing the loss of oil or contaminated water to the storm water drainage system.
3. Sampling and analysis, in accordance with EPA Methods, must be performed for the following chemicals with the listed limits being applicable:

TPH
MTBE

5 ppm
70 ppb

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Benzene	5 ppb
Toluene	*
Ethyl Benzene	*
Xylenes	*
The total for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX)	----- 100 ppb

The above standards are based upon submitted contaminant information. Should future sampling indicate the presence of additional chemicals, those new chemical levels should not exceed the Federal Drinking Water Standards or 100 ppb, whichever is lower, in the effluent.

Solids - These waters shall be free from floating, suspended, and settleable solids in concentrations or combinations that would impair any use assigned to this class, that would cause esthetically objectionable conditions, or that would impair the benthic biota or degrade the chemical composition of the bottom.

Color and Turbidity - These waters shall be free from color and turbidity in concentrations or combinations that are esthetically objectionable conditions or that would impair the use assigned to this class.

Laboratory samples must be obtained from the influent to treatment, and from the effluent to the drainage system once each day for the first, third and sixth day of discharge. These samples must be analyzed with a 72-hour turnaround time. If the system is working properly, sampling for the remainder of the month shall be weekly and then monthly thereafter. The turnaround time for these samples shall ensure that no more than seven days pass between the sampling event and when the results are received and reviewed by GES.

If analysis indicates that the effluent limits have been exceeded, then the system must be shut down immediately and the problem corrected. Upon restarting the system, a sample must be taken and there must be 24 hour turnaround for the results. If the analysis indicates that the problem has been corrected, then the sampling schedule shall resume. If not, then the system shall be shut down again and fixed.

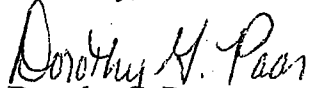
Analytical Reports, with quality control information, are to be reported to the DEP Project Manager, and to the undersigned NPDES permit exclusion writer of this office, by the 28th of the following month, using the NPDES exclusion reference number assigned above.

4. You, or your representative, provide 24 hours notice of the anticipated start-up of discharge, if start-up begins after March 30, 2002.
5. You, or your contractor, maintain copies of all analytical reports, and quality control information for a period of 3 years from the date of the report.

Because the purpose of this exclusion from the regulations is for the installation and operation of a groundwater extraction and air sparging treatment system, the exclusion will be in effect for four months from system start-up. After four months of discharge, it is expected that an application for a permanent NPDES wastewater permit will be submitted. Application materials may be obtained from Ms. Olga Vergara of EPA's Boston office. She may be contacted at (617) 918-1519. This exclusion may also be adjusted verbally if operational conditions require (ie; equipment failure or weather).

If any questions should arise, please do not hesitate to contact me at (617) 918-1265.

Sincerely,



Dorothy G. Paar

On-Scene Coordinator

Emergency Response Section

cc: D. Corb
B. Kubit
Data Base Unit
S. Marcoulier

EPA-MA Permits
MA DEP - OWM
MA DEP - Central Region
GES

APPENDIX B

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

I. General site information. Please provide the following information about the site:

Name of facility/site: Mobil Service Station No. 11053 (01-323)		Facility/site address:	
Location of facility/site: Latitude: 42° 32' 35" N Longitude: 71° 13' 08" W	Facility SIC code(s): 5541	Street: 92 West Main Street	
Name of facility/site owner: Exxon Mobil		Town: Hopkinton	County:
Email address of owner: david.j.baker@exxonmobil.com		State: MA	Zip: 01748
Telephone no. of facility/site owner: (617) 381-1820		County: Middlesex	
Fax no. of facility/site owner: (262) 313-1820		Owner is (check one): 1. Federal 2. State/Tribal	
Address of owner (if different from site): ExxonMobil		3. Private X 4. other, if so, describe:	
Street: 52 Beachham Street			
Town: Everett		State: MA	Zip: 02149
County:		County:	
Legal name of operator:		Operator telephone no: (978) 392-0090	
Groundwater and Environmental Services, Inc.		Operator fax no: (978) 392-8583	
Operator contact name and title: Paul McKinlay, Project Manager // Darrell Interest, Staff Engineer		Operator email: pmckinlay@gesonline.com	
Address of operator (if different from owner):		Street: 364 Littleton Road	
Town: Westford		State: MA	Zip: 01886
County:		County: Middlesex	
Check "yes" or "no" for the following: Has a prior NPDES permit exclusion been granted for the discharge? Yes <u>X</u> No <u> </u>, if "yes," number: 02-053 Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes <u> </u> No <u>X</u>, if "yes," date and tracking #: Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <u> </u> No <u>X</u> For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <u>X</u> No <u> </u> NO. 2-0867 MADEP Site			

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <u>X</u> No <u> </u> If "yes," please list: 1. site identification # assigned by the state of NH or MA: <u>MADEP BRP File # 188-1195</u> 2. permit or license # assigned: <u>None</u> 3. state agency contact information: name, location, and telephone number: <u>MADEP Central Regional Office (508)797-7650</u> <u>627 Main Street, Worcester, MA 01608</u>	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y <u> </u> N <u>X</u>, if Y, number: <u> </u> 2. phase I or II construction storm water general permit? Y <u> </u> N <u>X</u>, if Y, number: <u> </u> 3. individual NPDES permit? Y <u> </u> N <u>X</u>, if Y, number: <u> </u> 4. any other water quality related permit? Y <u> </u> N <u>X</u>, if Y, number: <u> </u>
---	---

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage: <u>Vacuum - enhanced groundwater extraction system pumps water from six wells located on the west side of the station property through an oil-water separator, a holding tank, sediment filtration, an air stripper, a clay absorption unit, and two liquid-phase granular activated carbon units prior to discharge to the adjacent wetlands</u>	
b) Provide the following information about each discharge: 1) Number of discharge points: <u>1</u>	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>10 GPM (0.025 ft³/s)</u> Average flow <u>2.5 GPM</u> Is maximum flow a design value? Y <u>X</u> N <u> </u> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. <u>Average flow is based on site data since 2002</u>
3) Latitude and longitude of each discharge within 100 feet: pt. 1: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 2: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 3: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 4: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 5: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 6: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 7: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; pt. 8: <u>42° 13' 08" N</u> lat. <u> </u> long. <u> </u>; etc.	
4) If hydrostatic testing, total volume of the discharge (gals): <u>N/A</u> 5) Is the discharge intermittent <u>X</u> or seasonal <u> </u>? Is discharge ongoing Yes <u>X</u> No <u> </u>?	
c) Expected dates of discharge (mm/dd/yy): start <u>09/03/02</u> end <u>12/31/08</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		☒	1	grab	EPA 160.2	4.00	115,000	6.26	115,000	1.56
2. Total Residual Chlorine	☒		1	grab	EPA 330.5	0.0200 mg/l	ND			
3. Total Petroleum Hydrocarbons		☒	14	grab	EPA 1664A SAP015 CFM100	5.32(mg/L) 1000/108(mg/L)	ND 27,000	1.47	7,000	0.095
4. Cyanide	☒		1	grab	EPA 335.3	0.0050 mg/L	ND			
5. Benzene		☒	14	grab	EPA624/8021	1.00ug/L	57	0.003	13	0.0002
6. Toluene		☒	14	grab	EPA624/8021	1.00ug/L	242	0.013	43	0.0006
7. Ethylbenzene		☒	14	grab	EPA624/8021	1.00ug/L	898	0.069	105	0.0014
8. (m,p,o) Xylenes		☒	14	grab	EPA624/8021	2.00ug/L	4,080	0.222	738	0.01
9. Total BTEX ⁴		☒	14	grab	EPA624/8021		5,210	0.283	1,344	0.0183

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	X		1	grab	EPA 504.1	0.0200 ug/L	ND			
11. Methyl-tert-Butyl Ether (MtBE)		X	14	grab	EPA624/8071	20.0 ug/L	5,210	0.283	1,344	0.0183
12. tert-Butyl Alcohol (TBA)		X	1	grab	EPA624	10.0 ug/L	1330	0.072	1330	0.018
13. tert-Amyl Methyl Ether (TAME)		X	1	grab	EPA624	1.00 ug/L	16.1	0.001	16.1	0.0002
14. Naphthalene		X	1	grab	EPA 610	1.00 ug/L	14.1	0.001	14.1	0.0002
15. Carbon Tetra-chloride	X		1	grab	EPA 624	1.00 ug/L	ND			
16. 1,4 Dichlorobenzene	X		1	grab	EPA 624	1.00 ug/L	ND			
17. 1,2 Dichlorobenzene	X		1	grab	EPA 624	1.00 ug/L	ND			
18. 1,3 Dichlorobenzene	X		1	grab	EPA 624	1.00 ug/L	ND			
19. 1,1 Dichloroethane	X		1	grab	EPA 624	1.00 ug/L	ND			
20. 1,2 Dichloroethane	X		1	grab	EPA 624	1.00 ug/L	ND			
21. 1,1 Dichloroethylene	X		1	grab	EPA 624	1.00 ug/L	ND			
22. cis-1,2 Dichloro-ethylene	X		1	grab	EPA 624	1.00 ug/L	ND			
23. Dichloromethane (Methylene Chloride)	X		1	grab	EPA 624	5.00 ug/L	ND			
24. Tetrachloroethylene	X		1	grab	EPA 624	1.00 ug/L	ND			

⁵ EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	X		1	grab	EPA 624	1.00 ug/L	ND			
26. 1,1,2 Trichloroethane	X		1	grab	EPA 624	1.00 ug/L	ND			
27. Trichloroethylene	X		1	grab	EPA 624	1.00 ug/L	ND			
28. Vinyl Chloride	X		1	grab	EPA 624	1.00 ug/L	ND			
29. Acetone	X		1	grab	EPA 624	50.0 ug/L	ND			
30. 1,4 Dioxane	X		1	grab	EPA 624	100 ug/L	ND			
31. Total Phenols	X		1	grab	EPA 625	10.0 ug/L	ND			
32. Pentachlorophenol	X		1	grab	EPA 625	25.0 ug/L	ND			
33. Total Phthalates ⁶ (Phthalate esters)	X		1	grab	EPA 625	10.0 ug/L	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	X		1	grab	EPA 625	10.0 ug/L	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	X		1	grab	EPA 610	0.2 ug/L	ND			
a. Benzo(a) Anthracene	X		1	grab	EPA 610	0.200 ug/L	ND			
b. Benzo(a) Pyrene	X		1	grab	EPA 610	0.100 ug/L	ND			
c. Benzo(b) Fluoranthene	X		1	grab	EPA 610	0.100 ug/L	ND			
d. Benzo(k) Fluoranthene	X		1	grab	EPA 610	0.140 ug/L	ND			
e. Chrysene	X		1	grab	EPA 610	0.100 ug/L	ND			

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	X		1	grab	EPA 610	0.200 ug/L	ND			
g. Indeno(1,2,3-cd) Pyrene	X		1	grab	EPA 610	0.200 ug/L	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	X		1	grab	EPA 610	0.5 ug/L	ND			
h. Acenaphthene	X		1	grab	EPA 610	1.00 ug/L	ND			
i. Acenaphthylene	X		1	grab	EPA 610	1.00 ug/L	ND			
j. Anthracene	X		1	grab	EPA 610	1.00 ug/L	ND			
k. Benzo(ghi) Perylene	X		1	grab	EPA 610	0.200 ug/L	ND			
l. Fluoranthene	X		1	grab	EPA 610	0.200 ug/L	ND			
m. Fluorene	X		1	grab	EPA 610	0.500 ug/L	ND			
n. Naphthalene-		X	1	grab	EPA 610	1.00 ug/L	14.1	0.001	14.1	0.0002
o. Phenanthrene	X		1	grab	EPA 610	0.500 ug/L	ND			
p. Pyrene	X		1	grab	EPA 610	0.200 ug/L	ND			
37. Total Polychlorinated Biphenyls (PCBs)	X		1	grab	EPA 608	1.00 ug/L	ND			
38. Antimony	X		1	grab	EPA 200.7	0.0100 ug/L	ND			
39. Arsenic	X		1	grab	EPA 200.7	0.0100 ug/L	ND			
40. Cadmium	X		1	grab	EPA 200.7	0.00100 ug/L	ND			
41. Chromium III	X		1	grab	SM 3500 CrD	0.0150 ug/L	ND			
42. Chromium VI	X		1	grab	SM 3500 CrD	0.0100 ug/L	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		X	2	grab	EPA 200.7	0.0100 mg/L	152.9	0.002	31.1	0.0007
44. Lead		X	2	grab	EPA 200.7	0.00500 mg/L	5.3	0.0003	5.3	0.00007
45. Mercury	X		1	grab	EPA 245.1	0.000200 mg/L	ND			
46. Nickel	X		1	grab	EPA 200.7	0.0100 mg/L	ND			
47. Selenium	X		1	grab	EPA 200.7	0.0100 mg/L	ND			
48. Silver	X		1	grab	EPA 200.7	0.00500 mg/L	ND			
49. Zinc	X		2	grab	EPA 200.7	0.0500 mg/L	134	0.007	134	0.0018
50. Iron	X		2	grab	EPA 200.7	0.0500 mg/L	41,800	2.27	41,800	0.568
Other (describe):										

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

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y X N	If yes, which metals? copper, zinc, iron, lead
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: copper, zinc, iron, lead DF: 0-5 (see NOI Cover Document.)	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y X N If "Yes," list which metals: copper, zinc, iron, lead (see NOI Cover Document.)

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:					
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	GAC filter
	Chlorination	Dechlorination	Other (please describe):	Bag filter	
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>2.5</u> Maximum flow rate of treatment system <u>10</u> Design flow rate of treatment system <u>10</u>					
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): <u>N/A</u>					

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

a) Identify the discharge pathway:	Direct	Within facility	Storm drain	River/brook	Wetlands	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: System discharges to stormwater system, to adjacent wetlands west of the site, to Indian Brook, to Hopkinton Reservoir, to Sudbury River.						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water <u>Class B (Sudbury River)</u> ,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>N/A</u> cfs (wetlands) Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u>No</u> <u>X</u> If yes, for which pollutant(s)? Is there a TMDL? Yes <u>No</u> <u>X</u> If yes, for which pollutant(s)?						

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

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

7. Supplemental information. :

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

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

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

Facility/Site Name:	Mobil Service Station No. 11053 (01-323) 92 West Main Street, Hopkinton, MA
Operator signature:	
Title:	Project Manager, GAS on behalf of ExxonMobil.
Date:	11/23/05

APPENDIX C

October 25, 2005

Client: GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn: Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Nbr: Exxon 01-323
Date Received: 10/14/05

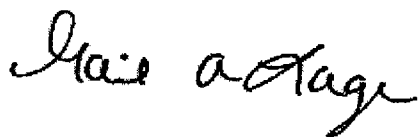
SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Influent	NOJ1467-01	10/13/05 10:30
Trip Blank	NOJ1467-02	09/26/05 13:45

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Gail Lage

Senior Project Manager

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOJ1467-01 (Influent - Water) Sampled: 10/13/05 10:30									
General Chemistry Parameters									
Chromium (VI)	ND	H	mg/L	0.0100	1	10/14/05 17:15	SM 3500Cr-D	JTH	5102161
Cyanide	ND		mg/L	0.0050	1	10/25/05 06:47	EPA 335.3	SAB	5103585
Oil & Grease HEM	ND		mg/L	5.32	1	10/21/05 15:06	EPA 1664A	AJR	5103098
pH	7.10	HTI	pH Units	0.100	1	10/19/05 17:55	EPA 150.1	BLM	5102364
Residual Chlorine	ND	HTI	mg/L	0.0200	1	10/17/05 15:25	EPA 330.5	TCB	5102468
Total Suspended Solids	115		mg/L	4.00	1	10/14/05 20:12	EPA 160.2	JTH	5102178
Chromium, Trivalent	ND		mg/L	0.0150	1	10/18/05 18:36	SM 3500Cr-D	JTH	[CALC]
Total Metals by EPA Method 200.7									
Antimony	ND		mg/L	0.0100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Arsenic	ND		mg/L	0.0100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Cadmium	ND		mg/L	0.00100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Chromium	ND		mg/L	0.00500	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Copper	0.0311		mg/L	0.0100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Iron	41.8		mg/L	0.0500	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Lead	ND		mg/L	0.00500	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Nickel	ND		mg/L	0.0100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Selenium	ND		mg/L	0.0100	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Silver	ND		mg/L	0.00500	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Zinc	0.134		mg/L	0.0500	1	10/18/05 18:36	EPA 200.7	KMA	5102510
Mercury by EPA 245.1									
Mercury	ND		mg/L	0.000200	1	10/15/05 14:05	EPA 245.1	KKK	5102229
EDB and DBCP by EPA Method 504.1									
1,2-Dibromoethane (EDB)	ND		ug/L	0.0200	1	10/18/05 20:41	EPA 504.1	MSR	5102321
Surrogate: 1,3-Dichlorobenzene (68-134%)	148 %	Z2				10/18/05 20:41	EPA 504.1	MSR	5102321
Organochlorine Pesticides and/or PCBs by EPA Method 608									
PCB-1016	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1221	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1232	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1242	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1248	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1254	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
PCB-1260	ND		ug/L	1.00	1	10/18/05 12:08	EPA 608	KMR	5102295
Surrogate: Tetrachloro-meta-xylene (58-117%)	81 %					10/18/05 12:08	EPA 608	KMR	5102295
Surrogate: Decachlorobiphenyl (22-115%)	66 %					10/18/05 12:08	EPA 608	KMR	5102295
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)									
Acenaphthene	ND		ug/L	1.00	1	10/22/05 09:21	EPA 610	KJP	5102243
Acenaphthylene	ND		ug/L	1.00	1	10/22/05 09:21	EPA 610	KJP	5102243
Anthracene	ND		ug/L	1.00	1	10/22/05 09:21	EPA 610	KJP	5102243
Benzo (a) anthracene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Benzo (a) pyrene	ND		ug/L	0.100	1	10/22/05 09:21	EPA 610	KJP	5102243
Benzo (b) fluoranthene	ND		ug/L	0.100	1	10/22/05 09:21	EPA 610	KJP	5102243

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOJ1467-01 (Influent - Water) - cont. Sampled: 10/13/05 10:30									
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC) - cont.									
Benzo (g,h,i) perylene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Benzo (k) fluoranthene	ND		ug/L	0.140	1	10/22/05 09:21	EPA 610	KJP	5102243
Chrysene	ND		ug/L	0.100	1	10/22/05 09:21	EPA 610	KJP	5102243
Dibenz (a,h) anthracene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Fluoranthene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Fluorene	ND		ug/L	0.500	1	10/22/05 09:21	EPA 610	KJP	5102243
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Naphthalene	14.1		ug/L	1.00	1	10/22/05 09:21	EPA 610	KJP	5102243
Phenanthrene	ND		ug/L	0.500	1	10/22/05 09:21	EPA 610	KJP	5102243
Pyrene	ND		ug/L	0.200	1	10/22/05 09:21	EPA 610	KJP	5102243
Surrogate: p-Terphenyl (55-122%)	75 %					10 22 05 09:21	EPA 610	KJP	5102243
Purgeable Organic Compounds by EPA Method 624									
Acetone	ND		ug/L	50.0	1	10/19/05 20:24	EPA 624	BxW	5102479
Tert-Amyl Methyl Ether	16.1		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Benzene	14.1		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Methyl tert-Butyl Ether	901		ug/L	20.0	20	10/23/05 01:01	EPA 624	sle	5103158
Tertiary Butyl Alcohol	1330		ug/L	10.0	1	10/19/05 20:24	EPA 624	BxW	5102479
Carbon Tetrachloride	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,2-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,4-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,3-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,2-Dichloroethane	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,1-Dichloroethane	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,1-Dichloroethene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,4-Dioxane	ND		ug/L	100	1	10/19/05 20:24	EPA 624	BxW	5102479
Ethylbenzene	8.77		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Methylene Chloride	ND		ug/L	5.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Tetrachloroethene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Toluene	14.1		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,1,2-Trichloroethane	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
1,1,1-Trichloroethane	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Trichloroethene	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Vinyl chloride	ND		ug/L	1.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Xylenes, total	334		ug/L	2.00	1	10/19/05 20:24	EPA 624	BxW	5102479
Surrogate: 1,2-Dichloroethane-d4 (81-126%)	95 %					10 19 05 20:24	EPA 624	BxW	5102479
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	90 %					10 23 05 01:01	EPA 624	sle	5103158
Surrogate: Dibromofluoromethane (88-120%)	102 %					10 19 05 20:24	EPA 624	BxW	5102479
Surrogate: Dibromofluoromethane (79-122%)	98 %					10 23 05 01:01	EPA 624	sle	5103158
Surrogate: Toluene-d8 (85-130%)	103 %					10 19 05 20:24	EPA 624	BxW	5102479
Surrogate: Toluene-d8 (78-121%)	102 %					10 23 05 01:01	EPA 624	sle	5103158
Surrogate: 4-Bromofluorobenzene (80-124%)	95 %					10 19 05 20:24	EPA 624	BxW	5102479
Surrogate: 4-Bromofluorobenzene (78-126%)	104 %					10 23 05 01:01	EPA 624	sle	5103158

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOJ1467-01RE1 (Influent - Water) - cont. Sampled: 10/13/05 10:30									
Acid and Base/Neutral Extractables by EPA Method 625									
Butyl benzyl phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
4-Chloro-3-methylphenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2-Chlorophenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Di-n-butyl phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2,4-Dichlorophenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Diethyl phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2,4-Dimethylphenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Dimethyl phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
4,6-Dinitro-2-methylphenol	ND		ug/L	25.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2,4-Dinitrophenol	ND		ug/L	25.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Di-n-octyl phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Bis(2-ethylhexyl)phthalate	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Naphthalene	17.4		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2-Nitrophenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
4-Nitrophenol	ND		ug/L	25.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Pentachlorophenol	ND		ug/L	25.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Phenol	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
1,2,4-Trichlorobenzene	ND		ug/L	10.0	1	10/16/05 02:13	EPA 625	DAH	5102296
2,4,6-Trichlorophenol	ND		ug/L	25.0	1	10/16/05 02:13	EPA 625	DAH	5102296
Surrogate: Terphenyl-d14 (34-116%)	87 %					10 16 05 02:13	EPA 625	DAH	5102296
Surrogate: 2,4,6-Tribromophenol (16-130%)	82 %					10 16 05 02:13	EPA 625	DAH	5102296
Surrogate: Phenol-d5 (10-66%)	17 %					10 16 05 02:13	EPA 625	DAH	5102296
Surrogate: 2-Fluorobiphenyl (32-99%)	78 %					10 16 05 02:13	EPA 625	DAH	5102296
Surrogate: 2-Fluorophenol (10-81%)	31 %					10 16 05 02:13	EPA 625	DAH	5102296
Surrogate: Nitrobenzene-d5 (19-116%)	90 %					10 16 05 02:13	EPA 625	DAH	5102296
Extractable Petroleum Hydrocarbons									
Diesel	1960		ug/L	108	1	10/16/05 13:03	SW846 8015B	bay	5102213
Surrogate: o-Terphenyl (55-150%)	89 %					10 16 05 13:03	SW846 8015B	bay	5102213
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	1740		ug/L	1000	10	10/18/05 13:17	SW846 8015B	ac	5102556
Surrogate: a,a,a-Trifluorotoluene (63-134%)	99 %					10 18 05 13:17	SW846 8015B	ac	5102556

Sample ID: NOJ1467-02 (Trip Blank - Water) Sampled: 09/26/05 13:45

Purgeable Organic Compounds by EPA Method 624

Acetone	ND		ug/L	50.0	1	10/19/05 18:28	EPA 624	BxW	5102479
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Benzene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Tertiary Butyl Alcohol	ND		ug/L	10.0	1	10/19/05 18:28	EPA 624	BxW	5102479
Carbon Tetrachloride	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,2-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,4-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,3-Dichlorobenzene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOJ1467-02 (Trip Blank - Water) - cont. Sampled: 09/26/05 13:45									
Purgeable Organic Compounds by EPA Method 624 - cont.									
1,2-Dichloroethane	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,1-Dichloroethane	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,1-Dichloroethene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,4-Dioxane	ND		ug/L	100	1	10/19/05 18:28	EPA 624	BxW	5102479
Ethylbenzene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Methylene Chloride	ND		ug/L	5.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Tetrachloroethene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Toluene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,1,2-Trichloroethane	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
1,1,1-Trichloroethane	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Trichloroethene	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Vinyl chloride	ND		ug/L	1.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Xylenes, total	ND		ug/L	2.00	1	10/19/05 18:28	EPA 624	BxW	5102479
Surrogate: 1,2-Dichloroethane-d4 (81-126%)	95 %					10 19 05 18:28	EPA 624	BxW	5102479
Surrogate: Dibromofluoromethane (88-120%)	102 %					10 19 05 18:28	EPA 624	BxW	5102479
Surrogate: Toluene-d8 (85-130%)	96 %					10 19 05 18:28	EPA 624	BxW	5102479
Surrogate: 4-Bromofluorobenzene (80-124%)	133 %					10 19 05 18:28	EPA 624	BxW	5102479

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Acid and Base/Neutral Extractables by EPA Method 625							
EPA 625	5102296	NOJ1467-01	1000.00	1.00	10/15/05 12:35	RXT	EPA 625
Extractable Petroleum Hydrocarbons							
SW846 8015B	5102213	NOJ1467-01	925.00	1.00	10/15/05 07:30	DMP	EPA 3510C
SW846 8015B	5102213	NOJ1467-01RE1	925.00	1.00	10/15/05 07:30	DMP	EPA 3510C
Mercury by EPA 245.1							
EPA 245.1	5102229	NOJ1467-01	30.00	30.00	10/15/05 07:15	KKK	EPA 245.1
Organochlorine Pesticides and/or PCBs by EPA Method 608							
EPA 608	5102295	NOJ1467-01	500.00	5.00	10/15/05 13:15	PJB	EPA 608
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)							
EPA 610	5102243	NOJ1467-01	1000.00	1.00	10/15/05 07:30	CEC	EPA 3510C
Total Metals by EPA Method 200.7							
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7
EPA 200.7	5102510	NOJ1467-01	50.00	50.00	10/18/05 07:30	JLS	EPA 200.7

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
5102161-BLK1						
Chromium (VI)	<0.00200		mg/L	5102161	5102161-BLK1	10/14/05 17:15
5102178-BLK1						
Total Suspended Solids	<0.500		mg/L	5102178	5102178-BLK1	10/14/05 20:12
5102468-BLK1						
Residual Chlorine	<0.0100		mg/L	5102468	5102468-BLK1	10/17/05 15:25
5103098-BLK1						
Oil & Grease HEM	<0.833		mg/L	5103098	5103098-BLK1	10/21/05 15:06
5103585-BLK1						
Cyanide	<0.0020		mg/L	5103585	5103585-BLK1	10/25/05 06:47
Total Metals by EPA Method 200.7						
5102510-BLK1						
Antimony	<0.00470		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Arsenic	<0.00370		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Cadmium	<0.000400		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Chromium	<0.00200		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Copper	<0.00650		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Iron	<0.0300		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Lead	<0.00240		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Nickel	<0.00210		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Selenium	<0.00960		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Silver	<0.00240		mg/L	5102510	5102510-BLK1	10/18/05 18:10
Zinc	<0.00480		mg/L	5102510	5102510-BLK1	10/18/05 18:10

Mercury by EPA 245.1

5102229-BLK1						
Mercury	<0.000100		mg/L	5102229	5102229-BLK1	10/15/05 13:52

EDB and DBCP by EPA Method 504.1

5102321-BLK1						
1,2-Dibromoethane (EDB)	<0.00600		ug/L	5102321	5102321-BLK1	10/18/05 14:39
1,2-Dibromo-3-chloropropane	<0.00300		ug/L	5102321	5102321-BLK1	10/18/05 14:39
1,2,3-Trichloropropane	<0.100		ug/L	5102321	5102321-BLK1	10/18/05 14:39
Surrogate: 1,3-Dichlorobenzene	141%	Z2		5102321	5102321-BLK1	10/18/05 14:39

Organochlorine Pesticides and/or PCBs by EPA Method 608

5102295-BLK1						
PCB-1016	<0.170		ug/L	5102295	5102295-BLK1	10/18/05 10:27

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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Organochlorine Pesticides and/or PCBs by EPA Method 608						
5102295-BLK1						
PCB-1221	<0.280		ug/L	5102295	5102295-BLK1	10/18/05 10:27
PCB-1232	<0.290		ug/L	5102295	5102295-BLK1	10/18/05 10:27
PCB-1242	<0.260		ug/L	5102295	5102295-BLK1	10/18/05 10:27
PCB-1248	<0.250		ug/L	5102295	5102295-BLK1	10/18/05 10:27
PCB-1254	<0.110		ug/L	5102295	5102295-BLK1	10/18/05 10:27
PCB-1260	<0.970		ug/L	5102295	5102295-BLK1	10/18/05 10:27
Surrogate: Tetrachloro-meta-xylene	112%			5102295	5102295-BLK1	10/18/05 10:27
Surrogate: Decachlorobiphenyl	96%			5102295	5102295-BLK1	10/18/05 10:27

Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)

5102243-BLK1						
1-Methylnaphthalene	<0.360		ug/L	5102243	5102243-BLK1	10/22/05 07:57
2-Methylnaphthalene	<0.540		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Acenaphthene	<0.210		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Acenaphthylene	<0.130		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Anthracene	<0.130		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Benzo (a) anthracene	<0.0800		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Benzo (a) pyrene	<0.100		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Benzo (b) fluoranthene	<0.0800		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Benzo (g,h,i) perylene	<0.100		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Benzo (k) fluoranthene	<0.110		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Chrysene	<0.0800		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Dibenz (a,h) anthracene	<0.190		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Fluoranthene	<0.0900		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Fluorene	<0.0900		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Indeno (1,2,3-cd) pyrene	<0.110		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Naphthalene	<0.210		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Phenanthrene	<0.110		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Pyrene	<0.160		ug/L	5102243	5102243-BLK1	10/22/05 07:57
Surrogate: p-Terphenyl	84%			5102243	5102243-BLK1	10/22/05 07:57

Purgeable Organic Compounds by EPA Method 624

5102479-BLK1						
Acetone	<0.820		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Tert-Amyl Methyl Ether	<0.500		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Acrolein	<4.55		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dibromoethane (EDB)	<0.350		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Acrylonitrile	<1.32		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dichloroethane	<0.430		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Benzene	<0.150		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Ethyl tert-Butyl Ether	<0.540		ug/L	5102479	5102479-BLK1	10/19/05 12:53

Client GES Westford (10118) EM D. Baker
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Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624						
5102479-BLK1						
Bromochloromethane	<0.350		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Isopropyl Ether	<0.300		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Bromodichloromethane	<0.140		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Methyl tert-Butyl Ether	<0.170		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Tertiary Butyl Alcohol	<6.29		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Bromoform	<0.320		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Bromomethane	<0.650		ug/L	5102479	5102479-BLK1	10/19/05 12:53
2-Butanone	<1.68		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Carbon disulfide	<0.190		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Carbon Tetrachloride	<0.230		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Chlorobenzene	<0.160		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Chlorodibromomethane	<0.130		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Chloroethane	<0.230		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Chloroform	<0.130		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Chloromethane	<0.210		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dibromo-3-chloropropane	<0.230		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dibromoethane (EDB)	<0.230		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dichlorobenzene	<0.140		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,4-Dichlorobenzene	<0.140		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,3-Dichlorobenzene	<0.150		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Dichlorodifluoromethane	<0.300		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dichloroethane	<0.140		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,1-Dichloroethane	<0.130		ug/L	5102479	5102479-BLK1	10/19/05 12:53
cis-1,2-Dichloroethene	<0.240		ug/L	5102479	5102479-BLK1	10/19/05 12:53
trans-1,2-Dichloroethene	<0.200		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,1-Dichloroethene	<0.100		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Dichlorofluoromethane	<1.00		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2-Dichloropropane	<0.200		ug/L	5102479	5102479-BLK1	10/19/05 12:53
cis-1,3-Dichloropropene	<0.120		ug/L	5102479	5102479-BLK1	10/19/05 12:53
trans-1,3-Dichloropropene	<0.400		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,4-Dioxane	<2.00		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Ethylbenzene	<0.180		ug/L	5102479	5102479-BLK1	10/19/05 12:53
2-Hexanone	<0.650		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Isopropylbenzene	<0.110		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Methyl tert-Butyl Ether	<0.100		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Methylene Chloride	<0.270		ug/L	5102479	5102479-BLK1	10/19/05 12:53
4-Methyl-2-pentanone	<0.620		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Styrene	<0.100		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,1,2,2-Tetrachloroethane	<0.250		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Tetrachloroethene	<0.200		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Toluene	<0.180		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,2,3-Trichlorobenzene	<0.560		ug/L	5102479	5102479-BLK1	10/19/05 12:53

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624						
5102479-BLK1						
1,2,4-Trichlorobenzene	<0.560		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,1,2-Trichloroethane	<0.110		ug/L	5102479	5102479-BLK1	10/19/05 12:53
1,1,1-Trichloroethane	<0.190		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Trichloroethene	<0.330		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Trichlorofluoromethane	<0.300		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Vinyl chloride	<0.150		ug/L	5102479	5102479-BLK1	10/19/05 12:53
o-Xylene	<0.130		ug/L	5102479	5102479-BLK1	10/19/05 12:53
m,p-Xylene	<0.290		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Xylenes, total	<0.420		ug/L	5102479	5102479-BLK1	10/19/05 12:53
Surrogate: 1,2-Dichloroethane-d4	97%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: 1,2-Dichloroethane-d4	97%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: Dibromofluoromethane	104%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: Dibromofluoromethane	104%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: Toluene-d8	99%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: Toluene-d8	99%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: 4-Bromofluorobenzene	107%			5102479	5102479-BLK1	10/19/05 12:53
Surrogate: 4-Bromofluorobenzene	107%			5102479	5102479-BLK1	10/19/05 12:53
5102479-BLK2						
Acetone	<0.820		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Tert-Amyl Methyl Ether	<0.500		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Acrolein	<4.55		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dibromoethane (EDB)	<0.350		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Acrylonitrile	<1.32		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dichloroethane	<0.430		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Benzene	<0.150		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Ethyl tert-Butyl Ether	<0.540		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Bromochloromethane	<0.350		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Isopropyl Ether	<0.300		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Bromodichloromethane	<0.140		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Methyl tert-Butyl Ether	<0.170		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Tertiary Butyl Alcohol	<6.29		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Bromoform	<0.320		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Bromomethane	<0.650		ug/L	5102479	5102479-BLK2	10/20/05 02:34
2-Butanone	<1.68		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Carbon disulfide	<0.190		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Carbon Tetrachloride	<0.230		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Chlorobenzene	<0.160		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Chlorodibromomethane	<0.130		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Chloroethane	<0.230		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Chloroform	<0.130		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Chloromethane	<0.210		ug/L	5102479	5102479-BLK2	10/20/05 02:34

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624						
5102479-BLK2						
1,2-Dibromo-3-chloropropane	<0.230		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dibromoethane (EDB)	<0.230		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dichlorobenzene	<0.140		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,4-Dichlorobenzene	<0.140		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,3-Dichlorobenzene	<0.150		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Dichlorodifluoromethane	<0.300		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dichloroethane	<0.140		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,1-Dichloroethane	<0.130		ug/L	5102479	5102479-BLK2	10/20/05 02:34
cis-1,2-Dichloroethene	<0.240		ug/L	5102479	5102479-BLK2	10/20/05 02:34
trans-1,2-Dichloroethene	<0.200		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,1-Dichloroethene	<0.100		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Dichlorofluoromethane	<1.00		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2-Dichloropropane	<0.200		ug/L	5102479	5102479-BLK2	10/20/05 02:34
cis-1,3-Dichloropropene	<0.120		ug/L	5102479	5102479-BLK2	10/20/05 02:34
trans-1,3-Dichloropropene	<0.400		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,4-Dioxane	<2.00		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Ethylbenzene	<0.180		ug/L	5102479	5102479-BLK2	10/20/05 02:34
2-Hexanone	<0.650		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Isopropylbenzene	<0.110		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Methyl tert-Butyl Ether	<0.100		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Methylene Chloride	<0.270		ug/L	5102479	5102479-BLK2	10/20/05 02:34
4-Methyl-2-pentanone	<0.620		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Styrene	<0.100		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,1,2,2-Tetrachloroethane	<0.250		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Tetrachloroethene	<0.200		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Toluene	<0.180		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2,3-Trichlorobenzene	<0.560		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,2,4-Trichlorobenzene	<0.560		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,1,2-Trichloroethane	<0.110		ug/L	5102479	5102479-BLK2	10/20/05 02:34
1,1,1-Trichloroethane	<0.190		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Trichloroethene	<0.330		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Trichlorofluoromethane	<0.300		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Vinyl chloride	<0.150		ug/L	5102479	5102479-BLK2	10/20/05 02:34
o-Xylene	<0.130		ug/L	5102479	5102479-BLK2	10/20/05 02:34
m,p-Xylene	<0.290		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Xylenes, total	<0.420		ug/L	5102479	5102479-BLK2	10/20/05 02:34
Surrogate: 1,2-Dichloroethane-d4	95%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: 1,2-Dichloroethane-d4	95%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: Dibromofluoromethane	104%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: Dibromofluoromethane	104%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: Toluene-d8	94%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: Toluene-d8	94%			5102479	5102479-BLK2	10/20/05 02:34

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Purgeable Organic Compounds by EPA Method 624

5102479-BLK2

Surrogate: 4-Bromofluorobenzene	111%			5102479	5102479-BLK2	10/20/05 02:34
Surrogate: 4-Bromofluorobenzene	111%			5102479	5102479-BLK2	10/20/05 02:34

5103158-BLK1

Tert-Amyl Methyl Ether	<0.500		ug/L	5103158	5103158-BLK1	10/22/05 19:48
1,2-Dibromoethane (EDB)	<0.350		ug/L	5103158	5103158-BLK1	10/22/05 19:48
1,2-Dichloroethane	<0.430		ug/L	5103158	5103158-BLK1	10/22/05 19:48
Ethyl tert-Butyl Ether	<0.540		ug/L	5103158	5103158-BLK1	10/22/05 19:48
Isopropyl Ether	<0.300		ug/L	5103158	5103158-BLK1	10/22/05 19:48
Methyl tert-Butyl Ether	<0.170		ug/L	5103158	5103158-BLK1	10/22/05 19:48
Tertiary Butyl Alcohol	<6.29		ug/L	5103158	5103158-BLK1	10/22/05 19:48
Surrogate: 1,2-Dichloroethane-d4	104%			5103158	5103158-BLK1	10/22/05 19:48
Surrogate: Dibromofluoromethane	105%			5103158	5103158-BLK1	10/22/05 19:48
Surrogate: Toluene-d8	102%			5103158	5103158-BLK1	10/22/05 19:48
Surrogate: 4-Bromofluorobenzene	105%			5103158	5103158-BLK1	10/22/05 19:48

5103158-BLK2

Tert-Amyl Methyl Ether	<0.500		ug/L	5103158	5103158-BLK2	10/23/05 08:45
1,2-Dibromoethane (EDB)	<0.350		ug/L	5103158	5103158-BLK2	10/23/05 08:45
1,2-Dichloroethane	<0.430		ug/L	5103158	5103158-BLK2	10/23/05 08:45
Ethyl tert-Butyl Ether	<0.540		ug/L	5103158	5103158-BLK2	10/23/05 08:45
Isopropyl Ether	<0.300		ug/L	5103158	5103158-BLK2	10/23/05 08:45
Methyl tert-Butyl Ether	<0.170		ug/L	5103158	5103158-BLK2	10/23/05 08:45
Tertiary Butyl Alcohol	<6.29		ug/L	5103158	5103158-BLK2	10/23/05 08:45
Surrogate: 1,2-Dichloroethane-d4	101%			5103158	5103158-BLK2	10/23/05 08:45
Surrogate: Dibromofluoromethane	103%			5103158	5103158-BLK2	10/23/05 08:45
Surrogate: Toluene-d8	103%			5103158	5103158-BLK2	10/23/05 08:45
Surrogate: 4-Bromofluorobenzene	102%			5103158	5103158-BLK2	10/23/05 08:45

Acid and Base/Neutral Extractables by EPA Method 625

5102296-BLK1

Acenaphthene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Acenaphthylene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Anthracene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Benzo (a) anthracene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Benzo (a) pyrene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Benzo (b) fluoranthene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Benzo (g,h,i) perylene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Benzo (k) fluoranthene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
4-Bromophenyl phenyl ether	<0.400		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Butyl benzyl phthalate	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
4-Chloro-3-methylphenol	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39

Client GES Westford (10118) EM D. Baker
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Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625						
5102296-BLK1						
Bis(2-chloroethoxy)methane	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Bis(2-chloroethyl)ether	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2-Chloronaphthalene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2-Chlorophenol	<0.900		ug/L	5102296	5102296-BLK1	10/16/05 00:39
4-Chlorophenyl phenyl ether	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Chrysene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Dibenz (a,h) anthracene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Di-n-butyl phthalate	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
3,3'-Dichlorobenzidine	<0.700		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,4-Dichlorophenol	<0.900		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Diethyl phthalate	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,4-Dimethylphenol	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Dimethyl phthalate	<0.400		ug/L	5102296	5102296-BLK1	10/16/05 00:39
4,6-Dinitro-2-methylphenol	<3.04		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,4-Dinitrophenol	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,6-Dinitrotoluene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,4-Dinitrotoluene	<0.400		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Di-n-octyl phthalate	<0.700		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Bis(2-ethylhexyl)phthalate	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Fluoranthene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Fluorene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Hexachlorobenzene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Hexachlorobutadiene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Hexachlorocyclopentadiene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Hexachloroethane	<0.400		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Indeno (1,2,3-cd) pyrene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Isophorone	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Naphthalene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Nitrobenzene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2-Nitrophenol	<1.00		ug/L	5102296	5102296-BLK1	10/16/05 00:39
4-Nitrophenol	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
N-Nitrosodiphenylamine	<0.400		ug/L	5102296	5102296-BLK1	10/16/05 00:39
N-Nitrosodi-n-propylamine	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Pentachlorophenol	<1.30		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Phenanthrene	<0.500		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Phenol	<1.00		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Pyrene	<0.600		ug/L	5102296	5102296-BLK1	10/16/05 00:39
2,4,6-Trichlorophenol	<1.50		ug/L	5102296	5102296-BLK1	10/16/05 00:39
Surrogate: Terphenyl-d14	98%			5102296	5102296-BLK1	10/16/05 00:39
Surrogate: 2,4,6-Tribromophenol	99%			5102296	5102296-BLK1	10/16/05 00:39
Surrogate: Phenol-d5	40%			5102296	5102296-BLK1	10/16/05 00:39
Surrogate: 2-Fluorobiphenyl	66%			5102296	5102296-BLK1	10/16/05 00:39

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
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Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625						
5102296-BLK1						
Surrogate: 2-Fluorophenol	57%			5102296	5102296-BLK1	10/16/05 00:39
Surrogate: Nitrobenzene-d5	79%			5102296	5102296-BLK1	10/16/05 00:39
Extractable Petroleum Hydrocarbons						
5102213-BLK1						
Diesel	<33.0		ug/L	5102213	5102213-BLK1	10/15/05 19:35
Surrogate: o-Terphenyl	120%			5102213	5102213-BLK1	10/15/05 19:35
Purgeable Petroleum Hydrocarbons						
5102556-BLK1						
GRO as Gasoline	<55.0		ug/L	5102556	5102556-BLK1	10/17/05 12:48
Surrogate: a,a,a-Trifluorotoluene	90%			5102556	5102556-BLK1	10/17/05 12:48
5102556-BLK2						
GRO as Gasoline	<55.0		ug/L	5102556	5102556-BLK2	10/18/05 12:46
Surrogate: a,a,a-Trifluorotoluene	97%			5102556	5102556-BLK2	10/18/05 12:46

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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Calibration Check

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
5J17020-CCV6								
Diesel	2000	1870		ug/mL	94%	85 - 115	5J17020	10/17/05 08:30

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Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
5102161-DUP1									
Chromium (VI)	ND	ND		mg/L		10	5102161	NOJ1467-01	10/14/05 17:15
5102178-DUP1									
Total Suspended Solids	115	112		mg/L	3	20	5102178	NOJ1467-01	10/14/05 20:12
5102364-DUP1									
pH	7.10	7.10		pH Units	0	200	5102364	NOJ1467-01	10/19/05 17:55
5102468-DUP1									
Residual Chlorine	0.0423	0.0364		mg/L	15	20	5102468	NOJ1438-01	10/17/05 15:25
5103585-DUP1									
Cyanide	ND	ND		mg/L		50	5103585	NOJ1945-06	10/25/05 06:47

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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
5102161-BS1								
Chromium (VI)	0.100	0.100		ug/mL	100%	85 - 115	5102161	10/14/05 17:15
5102178-BS1								
Total Suspended Solids	100	88.0		mg/L	88%	81 - 119	5102178	10/14/05 20:12
5102468-BS1								
Residual Chlorine	0.200	0.207		ug/mL	104%	90 - 110	5102468	10/17/05 15:25
5103098-BS1								
Oil & Grease HEM	40.0	38.6		mg/L	96%	78 - 114	5103098	10/21/05 15:06
5103585-BS1								
Cyanide	0.100	0.1031		ug/mL	103%	90 - 110	5103585	10/25/05 06:47
Total Metals by EPA Method 200.7								
5102510-BS1								
Antimony	0.100	0.0871		mg/L	87%	85 - 115	5102510	10/18/05 18:14
Arsenic	0.0500	0.0510		mg/L	102%	85 - 115	5102510	10/18/05 18:14
Cadmium	0.0500	0.0523		mg/L	105%	85 - 115	5102510	10/18/05 18:14
Chromium	0.200	0.197		mg/L	98%	85 - 115	5102510	10/18/05 18:14
Copper	0.250	0.258		mg/L	103%	85 - 115	5102510	10/18/05 18:14
Iron	1.00	1.08		mg/L	108%	85 - 115	5102510	10/18/05 18:14
Lead	0.0500	0.0465		mg/L	93%	85 - 115	5102510	10/18/05 18:14
Nickel	0.500	0.536		mg/L	107%	85 - 115	5102510	10/18/05 18:14
Selenium	0.0500	0.0488		mg/L	98%	85 - 115	5102510	10/18/05 18:14
Silver	0.0500	0.0521		mg/L	104%	85 - 115	5102510	10/18/05 18:14
Zinc	0.500	0.492		mg/L	98%	85 - 115	5102510	10/18/05 18:14
Mercury by EPA 245.1								
5102229-BS1								
Mercury	0.00100	0.00107		mg/L	107%	85 - 115	5102229	10/15/05 13:54
EDB and DBCP by EPA Method 504.1								
5102321-BS1								
1,2-Dibromoethane (EDB)	0.286	0.343	MHA	ug/L	120%	70 - 133	5102321	10/19/05 13:20
1,2-Dibromo-3-chloropropane	0.286	0.343	MHA	ug/L	120%	77 - 144	5102321	10/19/05 13:20
Surrogate: 1,3-Dichlorobenzene	5.71	6.57			115%	68 - 134	5102321	10/19/05 13:20
Organochlorine Pesticides and/or PCBs by EPA Method 608								
5102295-BS1								
PCB-1254	10.0	8.80		ug/L	88%	29 - 131	5102295	10/18/05 13:19
Surrogate: Tetrachloro-meta-xylene	1.00	0.830			83%	58 - 117	5102295	10/18/05 13:19

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Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Organochlorine Pesticides and/or PCBs by EPA Method 608								
5102295-BS1								
Surrogate: Decachlorobiphenyl	1.00	0.530			53%	22 - 115	5102295	10/18/05 13:19
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)								
5102243-BS1								
1-Methylnaphthalene	2.00	1.26		ug/L	63%	21 - 125	5102243	10/22/05 08:39
2-Methylnaphthalene	2.00	1.03		ug/L	52%	10 - 131	5102243	10/22/05 08:39
Acenaphthene	2.00	1.08		ug/L	54%	10 - 124	5102243	10/22/05 08:39
Acenaphthylene	2.00	1.51		ug/L	76%	10 - 139	5102243	10/22/05 08:39
Anthracene	2.00	1.68		ug/L	84%	10 - 126	5102243	10/22/05 08:39
Benzo (a) anthracene	2.00	1.54		ug/L	77%	12 - 135	5102243	10/22/05 08:39
Benzo (a) pyrene	2.00	1.82		ug/L	91%	10 - 128	5102243	10/22/05 08:39
Benzo (b) fluoranthene	2.00	1.64		ug/L	82%	6 - 150	5102243	10/22/05 08:39
Benzo (g,h,i) perylene	2.00	1.44		ug/L	72%	10 - 116	5102243	10/22/05 08:39
Benzo (k) fluoranthene	2.00	1.63		ug/L	82%	10 - 159	5102243	10/22/05 08:39
Chrysene	2.00	1.60		ug/L	80%	10 - 199	5102243	10/22/05 08:39
Dibenz (a,h) anthracene	2.00	1.51		ug/L	76%	10 - 110	5102243	10/22/05 08:39
Fluoranthene	2.00	1.60		ug/L	80%	14 - 123	5102243	10/22/05 08:39
Fluorene	2.00	1.43		ug/L	72%	10 - 142	5102243	10/22/05 08:39
Indeno (1,2,3-cd) pyrene	2.00	1.49		ug/L	74%	10 - 116	5102243	10/22/05 08:39
Naphthalene	2.00	1.44		ug/L	72%	10 - 122	5102243	10/22/05 08:39
Phenanthrene	2.00	1.53		ug/L	76%	10 - 155	5102243	10/22/05 08:39
Pyrene	2.00	1.71		ug/L	86%	10 - 140	5102243	10/22/05 08:39
Surrogate: p-Terphenyl	1.00	0.770			77%	55 - 122	5102243	10/22/05 08:39
Purgeable Organic Compounds by EPA Method 624								
5102479-BS1								
Tert-Amyl Methyl Ether	50.0	54.4		ug/L	109%	63 - 133	5102479	10/19/05 11:15
Acrolein	250	251		ug/L	100%	41 - 175	5102479	10/19/05 11:15
1,2-Dibromoethane (EDB)	50.0	55.3		ug/L	111%	71 - 134	5102479	10/19/05 11:15
Acrylonitrile	250	296		ug/L	118%	63 - 148	5102479	10/19/05 11:15
1,2-Dichloroethane	50.0	55.5		ug/L	111%	72 - 129	5102479	10/19/05 11:15
Benzene	50.0	57.4		ug/L	115%	37 - 151	5102479	10/19/05 11:15
Ethyl tert-Butyl Ether	50.0	54.5		ug/L	109%	63 - 141	5102479	10/19/05 11:15
Isopropyl Ether	50.0	56.9		ug/L	114%	79 - 130	5102479	10/19/05 11:15
Bromodichloromethane	50.0	58.3		ug/L	117%	35 - 155	5102479	10/19/05 11:15
Methyl tert-Butyl Ether	50.0	55.2		ug/L	110%	66 - 136	5102479	10/19/05 11:15
Tertiary Butyl Alcohol	500	655		ug/L	131%	41 - 160	5102479	10/19/05 11:15
Bromoform	50.0	50.3		ug/L	101%	45 - 169	5102479	10/19/05 11:15
Bromomethane	50.0	48.3		ug/L	97%	1 - 242	5102479	10/19/05 11:15
Carbon Tetrachloride	50.0	59.0		ug/L	118%	70 - 140	5102479	10/19/05 11:15
Chlorobenzene	50.0	51.7		ug/L	103%	37 - 160	5102479	10/19/05 11:15

Client GES Westford (10118) EM D. Baker
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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624								
5102479-BS1								
Chlorodibromomethane	50.0	61.0		ug/L	122%	53 - 149	5102479	10/19/05 11:15
Chloroethane	50.0	57.9		ug/L	116%	14 - 230	5102479	10/19/05 11:15
Chloroform	50.0	53.9		ug/L	108%	51 - 138	5102479	10/19/05 11:15
Chloromethane	50.0	43.9		ug/L	88%	10 - 273	5102479	10/19/05 11:15
1,2-Dichlorobenzene	50.0	52.0		ug/L	104%	18 - 190	5102479	10/19/05 11:15
1,4-Dichlorobenzene	50.0	48.1		ug/L	96%	18 - 190	5102479	10/19/05 11:15
1,3-Dichlorobenzene	50.0	51.0		ug/L	102%	59 - 156	5102479	10/19/05 11:15
Dichlorodifluoromethane	50.0	45.4		ug/L	91%	47 - 160	5102479	10/19/05 11:15
1,2-Dichloroethane	50.0	55.5		ug/L	111%	49 - 155	5102479	10/19/05 11:15
1,1-Dichloroethane	50.0	56.6		ug/L	113%	59 - 155	5102479	10/19/05 11:15
cis-1,2-Dichloroethene	50.0	54.7		ug/L	109%	70 - 129	5102479	10/19/05 11:15
trans-1,2-Dichloroethene	50.0	57.2		ug/L	114%	54 - 156	5102479	10/19/05 11:15
1,1-Dichloroethene	50.0	56.0		ug/L	112%	1 - 234	5102479	10/19/05 11:15
1,2-Dichloropropane	50.0	55.3		ug/L	111%	10 - 210	5102479	10/19/05 11:15
cis-1,3-Dichloropropene	50.0	56.1		ug/L	112%	1 - 227	5102479	10/19/05 11:15
trans-1,3-Dichloropropene	50.0	55.2		ug/L	110%	17 - 183	5102479	10/19/05 11:15
1,4-Dioxane	5000	5630		ug/L	113%	47 - 154	5102479	10/19/05 11:15
Ethylbenzene	50.0	56.0		ug/L	112%	37 - 162	5102479	10/19/05 11:15
Methylene Chloride	50.0	57.9		ug/L	116%	1 - 221	5102479	10/19/05 11:15
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L	100%	46 - 157	5102479	10/19/05 11:15
Tetrachloroethene	50.0	52.0		ug/L	104%	64 - 148	5102479	10/19/05 11:15
Toluene	50.0	55.5		ug/L	111%	47 - 150	5102479	10/19/05 11:15
1,1,2-Trichloroethane	50.0	54.8		ug/L	110%	52 - 150	5102479	10/19/05 11:15
1,1,1-Trichloroethane	50.0	55.4		ug/L	111%	52 - 162	5102479	10/19/05 11:15
Trichloroethene	50.0	56.4		ug/L	113%	71 - 157	5102479	10/19/05 11:15
Trichlorofluoromethane	50.0	50.3		ug/L	101%	17 - 181	5102479	10/19/05 11:15
Vinyl chloride	50.0	54.6		ug/L	109%	1 - 251	5102479	10/19/05 11:15
Xylenes, total	150	179		ug/L	119%	75 - 129	5102479	10/19/05 11:15
Surrogate: 1,2-Dichloroethane-d4	30.0	27.8			93%	81 - 126	5102479	10/19/05 11:15
Surrogate: 1,2-Dichloroethane-d4	30.0	27.8			93%	70 - 130	5102479	10/19/05 11:15
Surrogate: Dibromofluoromethane	30.0	30.0			100%	79 - 122	5102479	10/19/05 11:15
Surrogate: Dibromofluoromethane	30.0	30.0			100%	88 - 120	5102479	10/19/05 11:15
Surrogate: Toluene-d8	30.0	30.1			100%	78 - 121	5102479	10/19/05 11:15
Surrogate: Toluene-d8	30.0	30.1			100%	85 - 130	5102479	10/19/05 11:15
Surrogate: 4-Bromofluorobenzene	30.0	29.8			99%	80 - 124	5102479	10/19/05 11:15
Surrogate: 4-Bromofluorobenzene	30.0	29.8			99%	78 - 126	5102479	10/19/05 11:15
5102479-BS2								
Tert-Amyl Methyl Ether	50.0	52.3		ug/L	105%	63 - 133	5102479	10/20/05 01:24
Acrolein	250	229		ug/L	92%	41 - 175	5102479	10/20/05 01:24
1,2-Dibromoethane (EDB)	50.0	50.6		ug/L	101%	71 - 134	5102479	10/20/05 01:24
Acrylonitrile	250	294		ug/L	118%	63 - 148	5102479	10/20/05 01:24

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Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624								
5102479-BS2								
1,2-Dichloroethane	50.0	55.6		ug/L	111%	72 - 129	5102479	10/20/05 01:24
Benzene	50.0	56.2		ug/L	112%	37 - 151	5102479	10/20/05 01:24
Ethyl tert-Butyl Ether	50.0	49.4		ug/L	99%	63 - 141	5102479	10/20/05 01:24
Isopropyl Ether	50.0	52.3		ug/L	105%	79 - 130	5102479	10/20/05 01:24
Bromodichloromethane	50.0	56.8		ug/L	114%	35 - 155	5102479	10/20/05 01:24
Methyl tert-Butyl Ether	50.0	51.8		ug/L	104%	66 - 136	5102479	10/20/05 01:24
Tertiary Butyl Alcohol	500	720		ug/L	144%	41 - 160	5102479	10/20/05 01:24
Bromoform	50.0	45.9		ug/L	92%	45 - 169	5102479	10/20/05 01:24
Bromomethane	50.0	45.8		ug/L	92%	1 - 242	5102479	10/20/05 01:24
Carbon Tetrachloride	50.0	55.6		ug/L	111%	70 - 140	5102479	10/20/05 01:24
Chlorobenzene	50.0	49.5		ug/L	99%	37 - 160	5102479	10/20/05 01:24
Chlorodibromomethane	50.0	54.6		ug/L	109%	53 - 149	5102479	10/20/05 01:24
Chloroethane	50.0	57.6		ug/L	115%	14 - 230	5102479	10/20/05 01:24
Chloroform	50.0	53.4		ug/L	107%	51 - 138	5102479	10/20/05 01:24
Chloromethane	50.0	46.4		ug/L	93%	10 - 273	5102479	10/20/05 01:24
1,2-Dichlorobenzene	50.0	49.6		ug/L	99%	18 - 190	5102479	10/20/05 01:24
1,4-Dichlorobenzene	50.0	46.6		ug/L	93%	18 - 190	5102479	10/20/05 01:24
1,3-Dichlorobenzene	50.0	48.9		ug/L	98%	59 - 156	5102479	10/20/05 01:24
Dichlorodifluoromethane	50.0	40.2		ug/L	80%	47 - 160	5102479	10/20/05 01:24
1,2-Dichloroethane	50.0	55.6		ug/L	111%	49 - 155	5102479	10/20/05 01:24
1,1-Dichloroethane	50.0	54.6		ug/L	109%	59 - 155	5102479	10/20/05 01:24
cis-1,2-Dichloroethene	50.0	51.8		ug/L	104%	70 - 129	5102479	10/20/05 01:24
trans-1,2-Dichloroethene	50.0	53.3		ug/L	107%	54 - 156	5102479	10/20/05 01:24
1,1-Dichloroethene	50.0	49.1		ug/L	98%	1 - 234	5102479	10/20/05 01:24
1,2-Dichloropropane	50.0	52.8		ug/L	106%	10 - 210	5102479	10/20/05 01:24
cis-1,3-Dichloropropene	50.0	46.6		ug/L	93%	1 - 227	5102479	10/20/05 01:24
trans-1,3-Dichloropropene	50.0	45.6		ug/L	91%	17 - 183	5102479	10/20/05 01:24
1,4-Dioxane	5000	5930		ug/L	119%	47 - 154	5102479	10/20/05 01:24
Ethylbenzene	50.0	51.5		ug/L	103%	37 - 162	5102479	10/20/05 01:24
Methylene Chloride	50.0	57.4		ug/L	115%	1 - 221	5102479	10/20/05 01:24
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/L	92%	46 - 157	5102479	10/20/05 01:24
Tetrachloroethene	50.0	45.4		ug/L	91%	64 - 148	5102479	10/20/05 01:24
Toluene	50.0	49.4		ug/L	99%	47 - 150	5102479	10/20/05 01:24
1,1,2-Trichloroethane	50.0	50.5		ug/L	101%	52 - 150	5102479	10/20/05 01:24
1,1,1-Trichloroethane	50.0	52.4		ug/L	105%	52 - 162	5102479	10/20/05 01:24
Trichloroethene	50.0	55.1		ug/L	110%	71 - 157	5102479	10/20/05 01:24
Trichlorofluoromethane	50.0	48.2		ug/L	96%	17 - 181	5102479	10/20/05 01:24
Vinyl chloride	50.0	48.5		ug/L	97%	1 - 251	5102479	10/20/05 01:24
Xylenes, total	150	164		ug/L	109%	75 - 129	5102479	10/20/05 01:24
Surrogate: 1,2-Dichloroethane-d4	30.0	27.2			91%	70 - 130	5102479	10/20/05 01:24
Surrogate: 1,2-Dichloroethane-d4	30.0	27.2			91%	81 - 126	5102479	10/20/05 01:24

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PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624								
5102479-BS2								
Surrogate: Dibromofluoromethane	30.0	30.2			101%	79 - 122	5102479	10/20/05 01:24
Surrogate: Dibromofluoromethane	30.0	30.2			101%	88 - 120	5102479	10/20/05 01:24
Surrogate: Toluene-d8	30.0	26.8			89%	78 - 121	5102479	10/20/05 01:24
Surrogate: Toluene-d8	30.0	26.8			89%	85 - 130	5102479	10/20/05 01:24
Surrogate: 4-Bromofluorobenzene	30.0	27.4			91%	80 - 124	5102479	10/20/05 01:24
Surrogate: 4-Bromofluorobenzene	30.0	27.4			91%	78 - 126	5102479	10/20/05 01:24
5103158-BS1								
Tert-Amyl Methyl Ether	50.0	54.7		ug/L	109%	63 - 133	5103158	10/22/05 18:21
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L	101%	71 - 134	5103158	10/22/05 18:21
1,2-Dichloroethane	50.0	54.2		ug/L	108%	72 - 129	5103158	10/22/05 18:21
Ethyl tert-Butyl Ether	50.0	55.0		ug/L	110%	63 - 141	5103158	10/22/05 18:21
Isopropyl Ether	50.0	50.0		ug/L	100%	79 - 130	5103158	10/22/05 18:21
Methyl tert-Butyl Ether	50.0	53.3		ug/L	107%	66 - 136	5103158	10/22/05 18:21
Tertiary Butyl Alcohol	500	500		ug/L	100%	41 - 160	5103158	10/22/05 18:21
Surrogate: 1,2-Dichloroethane-d4	50.0	47.5			95%	70 - 130	5103158	10/22/05 18:21
Surrogate: Dibromofluoromethane	50.0	50.4			101%	79 - 122	5103158	10/22/05 18:21
Surrogate: Toluene-d8	50.0	48.7			97%	78 - 121	5103158	10/22/05 18:21
Surrogate: 4-Bromofluorobenzene	50.0	50.2			100%	78 - 126	5103158	10/22/05 18:21
5103158-BS2								
Tert-Amyl Methyl Ether	50.0	56.3		ug/L	113%	63 - 133	5103158	10/23/05 07:18
1,2-Dibromoethane (EDB)	50.0	52.4		ug/L	105%	71 - 134	5103158	10/23/05 07:18
1,2-Dichloroethane	50.0	53.3		ug/L	107%	72 - 129	5103158	10/23/05 07:18
Ethyl tert-Butyl Ether	50.0	54.2		ug/L	108%	63 - 141	5103158	10/23/05 07:18
Isopropyl Ether	50.0	48.9		ug/L	98%	79 - 130	5103158	10/23/05 07:18
Methyl tert-Butyl Ether	50.0	52.9		ug/L	106%	66 - 136	5103158	10/23/05 07:18
Tertiary Butyl Alcohol	500	564		ug/L	113%	41 - 160	5103158	10/23/05 07:18
Surrogate: 1,2-Dichloroethane-d4	50.0	45.7			91%	70 - 130	5103158	10/23/05 07:18
Surrogate: Dibromofluoromethane	50.0	48.1			96%	79 - 122	5103158	10/23/05 07:18
Surrogate: Toluene-d8	50.0	49.5			99%	78 - 121	5103158	10/23/05 07:18
Surrogate: 4-Bromofluorobenzene	50.0	51.6			103%	78 - 126	5103158	10/23/05 07:18
Acid and Base/Neutral Extractables by EPA Method 625								
5102296-BS1								
Acenaphthene	50.0	42.3	MNR	ug/L	85%	47 - 145	5102296	10/16/05 01:03
Acenaphthylene	50.0	44.5	MNR	ug/L	89%	33 - 145	5102296	10/16/05 01:03
Anthracene	50.0	48.1	MNR	ug/L	96%	27 - 133	5102296	10/16/05 01:03
Benzo (a) anthracene	50.0	46.0	MNR	ug/L	92%	33 - 143	5102296	10/16/05 01:03
Benzo (a) pyrene	50.0	46.9	MNR	ug/L	94%	17 - 163	5102296	10/16/05 01:03
Benzo (b) fluoranthene	50.0	45.2	MNR	ug/L	90%	24 - 159	5102296	10/16/05 01:03
Benzo (g,h,i) perylene	50.0	47.8	MNR	ug/L	96%	1 - 219	5102296	10/16/05 01:03

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
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Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625								
5102296-BS1								
Benzo (k) fluoranthene	50.0	47.7	MNR	ug/L	95%	11 - 162	5102296	10/16/05 01:03
4-Bromophenyl phenyl ether	50.0	39.6	MNR	ug/L	79%	53 - 127	5102296	10/16/05 01:03
Butyl benzyl phthalate	50.0	50.5	MNR	ug/L	101%	1 - 152	5102296	10/16/05 01:03
4-Chloro-3-methylphenol	50.0	34.4	MNR	ug/L	69%	22 - 147	5102296	10/16/05 01:03
Bis(2-chloroethoxy)methane	50.0	33.4	MNR	ug/L	67%	33 - 184	5102296	10/16/05 01:03
Bis(2-chloroethyl)ether	50.0	34.3	MNR	ug/L	69%	12 - 158	5102296	10/16/05 01:03
2-Chloronaphthalene	50.0	41.2	MNR	ug/L	82%	60 - 118	5102296	10/16/05 01:03
2-Chlorophenol	50.0	32.9	MNR	ug/L	66%	23 - 134	5102296	10/16/05 01:03
4-Chlorophenyl phenyl ether	50.0	41.4	MNR	ug/L	83%	25 - 158	5102296	10/16/05 01:03
Chrysene	50.0	45.7	MNR	ug/L	91%	17 - 168	5102296	10/16/05 01:03
Dibenz (a,h) anthracene	50.0	49.0	MNR	ug/L	98%	1 - 227	5102296	10/16/05 01:03
Di-n-butyl phthalate	50.0	47.6	MNR	ug/L	95%	1 - 118	5102296	10/16/05 01:03
3,3'-Dichlorobenzidine	50.0	46.4	MNR	ug/L	93%	10 - 262	5102296	10/16/05 01:03
2,4-Dichlorophenol	50.0	32.0	MNR	ug/L	64%	39 - 135	5102296	10/16/05 01:03
Diethyl phthalate	50.0	43.2	MNR	ug/L	86%	1 - 114	5102296	10/16/05 01:03
2,4-Dimethylphenol	50.0	34.8	MNR	ug/L	70%	32 - 119	5102296	10/16/05 01:03
Dimethyl phthalate	50.0	43.3	MNR	ug/L	87%	1 - 112	5102296	10/16/05 01:03
4,6-Dinitro-2-methylphenol	50.0	33.3	MNR	ug/L	67%	1 - 181	5102296	10/16/05 01:03
2,4-Dinitrophenol	50.0	25.9	MNR	ug/L	52%	1 - 191	5102296	10/16/05 01:03
2,6-Dinitrotoluene	50.0	52.6	MNR	ug/L	105%	50 - 158	5102296	10/16/05 01:03
2,4-Dinitrotoluene	50.0	48.2	MNR	ug/L	96%	39 - 139	5102296	10/16/05 01:03
Di-n-octyl phthalate	50.0	49.8	MNR	ug/L	100%	4 - 146	5102296	10/16/05 01:03
Bis(2-ethylhexyl)phthalate	50.0	49.7	MNR	ug/L	99%	8 - 158	5102296	10/16/05 01:03
Fluoranthene	50.0	44.8	MNR	ug/L	90%	26 - 137	5102296	10/16/05 01:03
Fluorene	50.0	43.3	MNR	ug/L	87%	59 - 121	5102296	10/16/05 01:03
Hexachlorobenzene	50.0	45.8	MNR	ug/L	92%	1 - 152	5102296	10/16/05 01:03
Hexachlorobutadiene	50.0	31.7	MNR	ug/L	63%	24 - 116	5102296	10/16/05 01:03
Hexachlorocyclopentadiene	50.0	42.5	MNR	ug/L	85%	11 - 90	5102296	10/16/05 01:03
Hexachloroethane	50.0	30.6	MNR	ug/L	61%	40 - 113	5102296	10/16/05 01:03
Indeno (1,2,3-cd) pyrene	50.0	47.3	MNR	ug/L	95%	1 - 171	5102296	10/16/05 01:03
Isophorone	50.0	37.6	MNR	ug/L	75%	21 - 196	5102296	10/16/05 01:03
Naphthalene	50.0	32.4	MNR	ug/L	65%	21 - 133	5102296	10/16/05 01:03
Nitrobenzene	50.0	34.4	MNR	ug/L	69%	35 - 180	5102296	10/16/05 01:03
2-Nitrophenol	50.0	36.8	MNR	ug/L	74%	29 - 182	5102296	10/16/05 01:03
4-Nitrophenol	50.0	13.4	MNR	ug/L	27%	1 - 132	5102296	10/16/05 01:03
N-Nitrosodiphenylamine	50.0	61.8	L, MNR	ug/L	124%	47 - 119	5102296	10/16/05 01:03
N-Nitrosodi-n-propylamine	50.0	34.6	MNR	ug/L	69%	1 - 230	5102296	10/16/05 01:03
Pentachlorophenol	50.0	39.2	MNR	ug/L	78%	14 - 176	5102296	10/16/05 01:03
Phenanthrene	50.0	45.4	MNR	ug/L	91%	54 - 120	5102296	10/16/05 01:03
Phenol	50.0	20.1	MNR	ug/L	40%	5 - 112	5102296	10/16/05 01:03
Pyrene	50.0	49.2	MNR	ug/L	98%	52 - 115	5102296	10/16/05 01:03

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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625								
5102296-BS1								
2,4,6-Trichlorophenol	50.0	37.6	MNR	ug/L	75%	37 - 144	5102296	10/16/05 01:03
Surrogate: Terphenyl-d14	50.0	42.6	MNR		85%	34 - 116	5102296	10/16/05 01:03
Surrogate: 2,4,6-Tribromophenol	50.0	44.0	MNR		88%	16 - 130	5102296	10/16/05 01:03
Surrogate: Phenol-d5	50.0	17.9	MNR		36%	10 - 66	5102296	10/16/05 01:03
Surrogate: 2-Fluorobiphenyl	50.0	34.4	MNR		69%	32 - 99	5102296	10/16/05 01:03
Surrogate: 2-Fluorophenol	50.0	22.2	MNR		44%	10 - 81	5102296	10/16/05 01:03
Surrogate: Nitrobenzene-d5	50.0	33.6	MNR		67%	19 - 116	5102296	10/16/05 01:03
Extractable Petroleum Hydrocarbons								
5102213-BS2								
Diesel	1000	863	MNR1	ug/L	86%	43 - 119	5102213	10/16/05 12:44
Surrogate: o-Terphenyl	20.0	19.8			99%	55 - 150	5102213	10/16/05 12:44
Purgeable Petroleum Hydrocarbons								
5102556-BS1								
GRO as Gasoline	1000	1090		ug/L	109%	64 - 130	5102556	10/18/05 02:59
Surrogate: a,a,a-Trifluorotoluene	30.0	29.2			97%	63 - 134	5102556	10/18/05 02:59
5102556-BS2								
GRO as Gasoline	1000	890		ug/L	89%	64 - 130	5102556	10/18/05 15:54
Surrogate: a,a,a-Trifluorotoluene	30.0	44.9	Z2		150%	63 - 134	5102556	10/18/05 15:54

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PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
5102161-MS1										
Chromium (VI)	ND	0.0988		ug/mL	0.100	99%	85 - 115	5102161	NOJ1467-01	10/14/05 17:15
5103098-MS1										
Oil & Grease HEM	0.638	37.8		mg/L	40.0	93%	78 - 114	5103098	NOJ1467-01	10/21/05 15:06
5103585-MS1										
Cyanide	ND	0.0802		ug/mL	0.100	80%	27 - 148	5103585	NOJ1458-01	10/25/05 06:47
Total Metals by EPA Method 200.7										
5102510-MS1										
Antimony	ND	0.0963		mg/L	0.100	96%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Arsenic	ND	0.0501		mg/L	0.0500	100%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Cadmium	ND	0.0510		mg/L	0.0500	102%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Chromium	ND	0.198		mg/L	0.200	99%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Copper	0.0311	0.318		mg/L	0.250	115%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Iron	41.8	43.0		mg/L	1.00	120%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Lead	ND	0.0556		mg/L	0.0500	111%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Nickel	ND	0.557		mg/L	0.500	111%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Selenium	ND	0.0616		mg/L	0.0500	123%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Silver	ND	0.0495		mg/L	0.0500	99%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Zinc	0.134	0.686		mg/L	0.500	110%	70 - 130	5102510	NOJ1467-01	10/18/05 18:41
Mercury by EPA 245.1										
5102229-MS1										
Mercury	ND	0.00110		mg/L	0.00100	110%	70 - 130	5102229	NOJ1509-02	10/15/05 14:11
Organochlorine Pesticides and/or PCBs by EPA Method 608										
5102295-MS1										
PCB-1254	ND	8.42		ug/L	10.0	84%	29 - 131	5102295	NOJ1510-01	10/18/05 10:56
Surrogate: Tetrachloro-meta-xylene		0.940		ug/L	1.00	94%	58 - 117	5102295	NOJ1510-01	10/18/05 10:56
Surrogate: Decachlorobiphenyl		1.08		ug/L	1.00	108%	22 - 115	5102295	NOJ1510-01	10/18/05 10:56
Purgeable Organic Compounds by EPA Method 624										
5102479-MS1										
Tert-Amyl Methyl Ether	ND	51.8		ug/L	50.0	104%	49 - 149	5102479	NOJ1479-01	10/19/05 23:52
Acrolein	ND	242		ug/L	250	97%	34 - 178	5102479	NOJ1479-01	10/19/05 23:52
1,2-Dibromoethane (EDB)	ND	50.4		ug/L	50.0	101%	61 - 146	5102479	NOJ1479-01	10/19/05 23:52
Acrylonitrile	ND	276		ug/L	250	110%	63 - 148	5102479	NOJ1479-01	10/19/05 23:52
1,2-Dichloroethane	ND	50.6		ug/L	50.0	101%	62 - 142	5102479	NOJ1479-01	10/19/05 23:52

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Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624										
5102479-MS1										
Benzene	ND	55.8		ug/L	50.0	112%	37 - 151	5102479	NOJ1479-01	10/19/05 23:52
Ethyl tert-Butyl Ether	ND	49.5		ug/L	50.0	99%	47 - 160	5102479	NOJ1479-01	10/19/05 23:52
Isopropyl Ether	ND	50.5		ug/L	50.0	101%	54 - 155	5102479	NOJ1479-01	10/19/05 23:52
Bromodichloromethane	ND	54.1		ug/L	50.0	108%	35 - 155	5102479	NOJ1479-01	10/19/05 23:52
Methyl tert-Butyl Ether	ND	51.1		ug/L	50.0	102%	46 - 158	5102479	NOJ1479-01	10/19/05 23:52
Tertiary Butyl Alcohol	ND	749		ug/L	500	150%	10 - 198	5102479	NOJ1479-01	10/19/05 23:52
Bromoform	ND	54.9		ug/L	50.0	110%	45 - 169	5102479	NOJ1479-01	10/19/05 23:52
Bromomethane	ND	55.8		ug/L	50.0	112%	1 - 242	5102479	NOJ1479-01	10/19/05 23:52
Carbon Tetrachloride	ND	57.0		ug/L	50.0	114%	70 - 140	5102479	NOJ1479-01	10/19/05 23:52
Chlorobenzene	ND	50.5		ug/L	50.0	101%	37 - 160	5102479	NOJ1479-01	10/19/05 23:52
Chlorodibromomethane	ND	54.2		ug/L	50.0	108%	53 - 149	5102479	NOJ1479-01	10/19/05 23:52
Chloroethane	ND	48.2		ug/L	50.0	96%	14 - 230	5102479	NOJ1479-01	10/19/05 23:52
Chloroform	ND	52.9		ug/L	50.0	106%	51 - 138	5102479	NOJ1479-01	10/19/05 23:52
Chloromethane	ND	34.5		ug/L	50.0	69%	10 - 273	5102479	NOJ1479-01	10/19/05 23:52
1,2-Dichlorobenzene	ND	51.4		ug/L	50.0	103%	18 - 190	5102479	NOJ1479-01	10/19/05 23:52
1,4-Dichlorobenzene	ND	47.8		ug/L	50.0	96%	18 - 190	5102479	NOJ1479-01	10/19/05 23:52
1,3-Dichlorobenzene	ND	51.0		ug/L	50.0	102%	59 - 156	5102479	NOJ1479-01	10/19/05 23:52
Dichlorodifluoromethane	ND	17.2	M8	ug/L	50.0	34%	36 - 182	5102479	NOJ1479-01	10/19/05 23:52
1,2-Dichloroethane	ND	50.6		ug/L	50.0	101%	49 - 155	5102479	NOJ1479-01	10/19/05 23:52
1,1-Dichloroethane	ND	53.8		ug/L	50.0	108%	59 - 155	5102479	NOJ1479-01	10/19/05 23:52
cis-1,2-Dichloroethene	ND	53.9		ug/L	50.0	108%	67 - 145	5102479	NOJ1479-01	10/19/05 23:52
trans-1,2-Dichloroethene	ND	54.2		ug/L	50.0	108%	54 - 156	5102479	NOJ1479-01	10/19/05 23:52
1,1-Dichloroethene	ND	54.6		ug/L	50.0	109%	1 - 234	5102479	NOJ1479-01	10/19/05 23:52
1,2-Dichloropropane	ND	51.6		ug/L	50.0	103%	10 - 210	5102479	NOJ1479-01	10/19/05 23:52
cis-1,3-Dichloropropene	ND	51.1		ug/L	50.0	102%	1 - 227	5102479	NOJ1479-01	10/19/05 23:52
trans-1,3-Dichloropropene	ND	48.9		ug/L	50.0	98%	17 - 183	5102479	NOJ1479-01	10/19/05 23:52
1,4-Dioxane	ND	5970		ug/L	5000	119%	47 - 154	5102479	NOJ1479-01	10/19/05 23:52
Ethylbenzene	ND	53.1		ug/L	50.0	106%	37 - 162	5102479	NOJ1479-01	10/19/05 23:52
Methylene Chloride	ND	47.3		ug/L	50.0	95%	1 - 221	5102479	NOJ1479-01	10/19/05 23:52
1,1,2,2-Tetrachloroethane	ND	48.4		ug/L	50.0	97%	46 - 157	5102479	NOJ1479-01	10/19/05 23:52
Tetrachloroethene	ND	52.6		ug/L	50.0	105%	64 - 148	5102479	NOJ1479-01	10/19/05 23:52
Toluene	ND	50.5		ug/L	50.0	101%	47 - 150	5102479	NOJ1479-01	10/19/05 23:52
1,1,2-Trichloroethane	ND	51.2		ug/L	50.0	102%	52 - 150	5102479	NOJ1479-01	10/19/05 23:52
1,1,1-Trichloroethane	ND	52.9		ug/L	50.0	106%	52 - 162	5102479	NOJ1479-01	10/19/05 23:52
Trichloroethene	ND	58.1		ug/L	50.0	116%	71 - 157	5102479	NOJ1479-01	10/19/05 23:52
Trichlorofluoromethane	ND	47.9		ug/L	50.0	96%	17 - 181	5102479	NOJ1479-01	10/19/05 23:52
Vinyl chloride	ND	41.5		ug/L	50.0	83%	1 - 251	5102479	NOJ1479-01	10/19/05 23:52

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PROJECT QUALITY CONTROL DATA

Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624										
5102479-MS1										
Xylenes, total	ND	165		ug/L	150	110%	47 - 147	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: 1,2-Dichloroethane-d4		26.0		ug/L	30.0	87%	81 - 126	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: 1,2-Dichloroethane-d4		26.0		ug/L	30.0	87%	70 - 130	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: Dibromofluoromethane		30.9		ug/L	30.0	103%	88 - 120	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: Dibromofluoromethane		30.9		ug/L	30.0	103%	79 - 122	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: Toluene-d8		27.1		ug/L	30.0	90%	78 - 121	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: Toluene-d8		27.1		ug/L	30.0	90%	85 - 130	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: 4-Bromofluorobenzene		28.7		ug/L	30.0	96%	78 - 126	5102479	NOJ1479-01	10/19/05 23:52
Surrogate: 4-Bromofluorobenzene		28.7		ug/L	30.0	96%	80 - 124	5102479	NOJ1479-01	10/19/05 23:52

Purgeable Petroleum Hydrocarbons

5102556-MS1

GRO as Gasoline	176	1240		ug/L	1000	106%	43 - 150	5102556	NOJ1661-01	10/18/05 01:57
Surrogate: a,a,a-Trifluorotoluene		30.7		ug/L	30.0	102%	63 - 134	5102556	NOJ1661-01	10/18/05 01:57

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
5102161-MSD1												
Chromium (VI)	ND	0.0970		ug/mL	0.100	97%	85 - 115	2	10	5102161	NOJ1467-01	10/14/05 17:15
5103585-MSD1												
Cyanide	ND	0.0883		ug/mL	0.100	88%	27 - 148	10	50	5103585	NOJ1458-01	10/25/05 06:47
Total Metals by EPA Method 200.7												
5102510-MSD1												
Antimony	ND	0.101		mg/L	0.100	101%	70 - 130	5	20	5102510	NOJ1467-01	10/18/05 19:04
Arsenic	ND	0.0570		mg/L	0.0500	114%	70 - 130	13	20	5102510	NOJ1467-01	10/18/05 19:04
Cadmium	ND	0.0514		mg/L	0.0500	103%	70 - 130	0.8	20	5102510	NOJ1467-01	10/18/05 19:04
Chromium	ND	0.200		mg/L	0.200	100%	70 - 130	1	20	5102510	NOJ1467-01	10/18/05 19:04
Copper	0.0311	0.320		mg/L	0.250	116%	70 - 130	0.6	20	5102510	NOJ1467-01	10/18/05 19:04
Iron	41.8	43.1		mg/L	1.00	130%	70 - 130	0.2	20	5102510	NOJ1467-01	10/18/05 19:04
Lead	ND	0.0565		mg/L	0.0500	113%	70 - 130	2	20	5102510	NOJ1467-01	10/18/05 19:04
Nickel	ND	0.559		mg/L	0.500	112%	70 - 130	0.4	20	5102510	NOJ1467-01	10/18/05 19:04
Selenium	ND	0.0576		mg/L	0.0500	115%	70 - 130	7	20	5102510	NOJ1467-01	10/18/05 19:04
Silver	ND	0.0510		mg/L	0.0500	102%	70 - 130	3	20	5102510	NOJ1467-01	10/18/05 19:04
Zinc	0.134	0.681		mg/L	0.500	109%	70 - 130	0.7	20	5102510	NOJ1467-01	10/18/05 19:04
Mercury by EPA 245.1												
5102229-MSD1												
Mercury	ND	0.00115		mg/L	0.00100	115%	70 - 130	4	20	5102229	NOJ1509-02	10/15/05 14:13
Organochlorine Pesticides and/or PCBs by EPA Method 608												
5102295-MSD1												
PCB-1254	ND	7.63		ug/L	10.0	76%	29 - 131	10	29	5102295	NOJ1510-01	10/18/05 11:20
Surrogate: Tetrachloro-meta-xylene		0.880		ug/L	1.00	88%	58 - 117			5102295	NOJ1510-01	10/18/05 11:20
Surrogate: Decachlorobiphenyl		1.90	Z2	ug/L	1.00	190%	22 - 115			5102295	NOJ1510-01	10/18/05 11:20
Purgeable Organic Compounds by EPA Method 624												
5102479-MSD1												
Tert-Amyl Methyl Ether	ND	52.2		ug/L	50.0	104%	49 - 149	0.8	34	5102479	NOJ1479-01	10/20/05 00:15
Acrolein	ND	242		ug/L	250	97%	34 - 178	0	36	5102479	NOJ1479-01	10/20/05 00:15
1,2-Dibromoethane (EDB)	ND	49.8		ug/L	50.0	100%	61 - 146	1	29	5102479	NOJ1479-01	10/20/05 00:15
Acrylonitrile	ND	281		ug/L	250	112%	63 - 148	2	22	5102479	NOJ1479-01	10/20/05 00:15
1,2-Dichloroethane	ND	52.2		ug/L	50.0	104%	62 - 142	3	23	5102479	NOJ1479-01	10/20/05 00:15
Benzene	ND	56.2		ug/L	50.0	112%	37 - 151	0.7	25	5102479	NOJ1479-01	10/20/05 00:15
Ethyl tert-Butyl Ether	ND	50.0		ug/L	50.0	100%	47 - 160	1	30	5102479	NOJ1479-01	10/20/05 00:15
Isopropyl Ether	ND	51.7		ug/L	50.0	103%	54 - 155	2	23	5102479	NOJ1479-01	10/20/05 00:15
Bromodichloromethane	ND	54.7		ug/L	50.0	109%	35 - 155	1	24	5102479	NOJ1479-01	10/20/05 00:15
Methyl tert-Butyl Ether	ND	52.1		ug/L	50.0	104%	46 - 158	2	31	5102479	NOJ1479-01	10/20/05 00:15

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624												
5102479-MSD1												
Tertiary Butyl Alcohol	ND	760		ug/L	500	152%	10 - 198	1	43	5102479	NOJ1479-01	10/20/05 00:15
Bromoform	ND	56.5		ug/L	50.0	113%	45 - 169	3	29	5102479	NOJ1479-01	10/20/05 00:15
Bromomethane	ND	57.2		ug/L	50.0	114%	1 - 242	2	41	5102479	NOJ1479-01	10/20/05 00:15
Carbon Tetrachloride	ND	56.4		ug/L	50.0	113%	70 - 140	1	33	5102479	NOJ1479-01	10/20/05 00:15
Chlorobenzene	ND	49.6		ug/L	50.0	99%	37 - 160	2	23	5102479	NOJ1479-01	10/20/05 00:15
Chlorodibromomethane	ND	54.0		ug/L	50.0	108%	53 - 149	0.4	26	5102479	NOJ1479-01	10/20/05 00:15
Chloroethane	ND	47.6		ug/L	50.0	95%	14 - 230	1	30	5102479	NOJ1479-01	10/20/05 00:15
Chloroform	ND	52.7		ug/L	50.0	105%	51 - 138	0.4	25	5102479	NOJ1479-01	10/20/05 00:15
Chloromethane	ND	33.4		ug/L	50.0	67%	10 - 273	3	47	5102479	NOJ1479-01	10/20/05 00:15
1,2-Dichlorobenzene	ND	52.3		ug/L	50.0	105%	18 - 190	2	23	5102479	NOJ1479-01	10/20/05 00:15
1,4-Dichlorobenzene	ND	48.2		ug/L	50.0	96%	18 - 190	0.8	23	5102479	NOJ1479-01	10/20/05 00:15
1,3-Dichlorobenzene	ND	51.0		ug/L	50.0	102%	59 - 156	0	24	5102479	NOJ1479-01	10/20/05 00:15
Dichlorodifluoromethane	ND	16.6	M8	ug/L	50.0	33%	36 - 182	4	32	5102479	NOJ1479-01	10/20/05 00:15
1,2-Dichloroethane	ND	52.2		ug/L	50.0	104%	49 - 155	3	23	5102479	NOJ1479-01	10/20/05 00:15
1,1-Dichloroethane	ND	54.2		ug/L	50.0	108%	59 - 155	0.7	24	5102479	NOJ1479-01	10/20/05 00:15
cis-1,2-Dichloroethene	ND	54.6		ug/L	50.0	109%	67 - 145	1	24	5102479	NOJ1479-01	10/20/05 00:15
trans-1,2-Dichloroethene	ND	54.4		ug/L	50.0	109%	54 - 156	0.4	28	5102479	NOJ1479-01	10/20/05 00:15
1,1-Dichloroethene	ND	52.7		ug/L	50.0	105%	1 - 234	4	26	5102479	NOJ1479-01	10/20/05 00:15
1,2-Dichloropropane	ND	52.3		ug/L	50.0	105%	10 - 210	1	23	5102479	NOJ1479-01	10/20/05 00:15
cis-1,3-Dichloropropene	ND	51.1		ug/L	50.0	102%	1 - 227	0	28	5102479	NOJ1479-01	10/20/05 00:15
trans-1,3-Dichloropropene	ND	49.3		ug/L	50.0	99%	17 - 183	0.8	29	5102479	NOJ1479-01	10/20/05 00:15
1,4-Dioxane	ND	5690		ug/L	5000	114%	47 - 154	5	50	5102479	NOJ1479-01	10/20/05 00:15
Ethylbenzene	ND	52.6		ug/L	50.0	105%	37 - 162	0.9	26	5102479	NOJ1479-01	10/20/05 00:15
Methylene Chloride	ND	46.4		ug/L	50.0	93%	1 - 221	2	25	5102479	NOJ1479-01	10/20/05 00:15
1,1,2,2-Tetrachloroethane	ND	49.2		ug/L	50.0	98%	46 - 157	2	29	5102479	NOJ1479-01	10/20/05 00:15
Tetrachloroethene	ND	50.5		ug/L	50.0	101%	64 - 148	4	27	5102479	NOJ1479-01	10/20/05 00:15
Toluene	ND	49.8		ug/L	50.0	100%	47 - 150	1	29	5102479	NOJ1479-01	10/20/05 00:15
1,1,2-Trichloroethane	ND	50.6		ug/L	50.0	101%	52 - 150	1	24	5102479	NOJ1479-01	10/20/05 00:15
1,1,1-Trichloroethane	ND	52.9		ug/L	50.0	106%	52 - 162	0	29	5102479	NOJ1479-01	10/20/05 00:15
Trichloroethene	ND	57.5		ug/L	50.0	115%	71 - 157	1	26	5102479	NOJ1479-01	10/20/05 00:15
Trichlorofluoromethane	ND	47.1		ug/L	50.0	94%	17 - 181	2	30	5102479	NOJ1479-01	10/20/05 00:15
Vinyl chloride	ND	41.0		ug/L	50.0	82%	1 - 251	1	29	5102479	NOJ1479-01	10/20/05 00:15
Xylenes, total	ND	164		ug/L	150	109%	47 - 147	0.6	26	5102479	NOJ1479-01	10/20/05 00:15
Surrogate: 1,2-Dichloroethane-d4		26.3		ug/L	30.0	88%	70 - 130			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: 1,2-Dichloroethane-d4		26.3		ug/L	30.0	88%	81 - 126			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: Dibromofluoromethane		30.3		ug/L	30.0	101%	79 - 122			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: Dibromofluoromethane		30.3		ug/L	30.0	101%	88 - 120			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: Toluene-d8		27.2		ug/L	30.0	91%	85 - 130			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: Toluene-d8		27.2		ug/L	30.0	91%	78 - 121			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: 4-Bromofluorobenzene		29.3		ug/L	30.0	98%	78 - 126			5102479	NOJ1479-01	10/20/05 00:15
Surrogate: 4-Bromofluorobenzene		29.3		ug/L	30.0	98%	80 - 124			5102479	NOJ1479-01	10/20/05 00:15

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 10/14/05 07:45

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624												
Purgeable Petroleum Hydrocarbons												
5102556-MSD1												
GRO as Gasoline	176	1250		ug/L	1000	107%	43 - 150	0.8	27	5102556	NOJ1661-01	10/18/05 02:28
Surrogate: <i>a,a,a</i> -Trifluorotoluene		30.3		ug/L	30.0	101%	63 - 134			5102556	NOJ1661-01	10/18/05 02:28

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOJ1467
Project Name: Exxon 01-323 PO: 4505796387
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Received: 10/14/05 07:45

DATA QUALIFIERS AND DEFINITIONS

H Sample analysis performed past method-specified holding time.

HTI The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

MNR No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.

MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

Z2 Surrogate recovery was above the acceptance limits. Data not impacted.

Nashville Division



COOLER RECEIPT FORM

BC#

NOJ1467

Client Name : 605 Inc.

Cooler Received/Opened On: 10/14/05 Accessioned By: Mike McBride

mmu30
Log-in Personnel Signature

1. Temperature of Cooler when triaged: _____ Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...(NO)...NA
 - a. If yes, how many and where: _____
3. Were custody seals on containers?..... (NO)...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...(NA)
5. Were custody papers inside cooler?..... (YES)...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... (YES)...NO...NA
7. Did you sign the custody papers in the appropriate place?..... (YES)...NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Foam Insert
 Ziplock baggies Paper Other (None)
9. Cooling process: (Ice) Ice-pack (Ice (direct contact)) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... (YES)...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... (YES)...NO...NA
12. Did all container labels and tags agree with custody papers?..... (YES)...NO...NA
13. Were correct containers used for the analysis requested?..... (YES)...NO...NA
14. a. Were VOA vials received?..... (YES)...NO...NA
 - b. Was there any observable head space present in any VOA vial?..... (NO)...YES...NA
15. Was sufficient amount of sample sent in each container?..... (YES)...NO...NA
16. Were correct preservatives used?..... (YES)...NO...NA

If not, record standard ID of preservative used here _____
17. Was residual chlorine present?..... (NO)...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
3005 (10), 4430 (40)

(Fed-Ex) UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

Consultant Name:

LES, Inc.

TA Account #:

Address:

364 Littleton Rd. Suite 4

Invoice To: (ExxonMobil PM unless otherwise indicate) 10118

NOJ1467-01 A

City/State/Zip:

West 6, P 1945 am 98810 W 01886

Report To: PAUL McKALEY

ExxonMobil Territory Mgr:

David Baker

PO #: 4505 796387

Consultant Project Mgr:

Paul McKinley

Facility ID # Mobil 11053 (formerly 01-203)

Consultant Telephone Number:

Fax No.: 978-392-0090

Site Address 92 west Main Street

Sampler Name: (Print)

Verwey

City, State, Zip Holykinton, MA

Sampler Signature:

Regulatory District (CA)

[illegible]



NOJ1467-01 A

GES - Christophe Henry

Analysis	Method	Sampling Ware	Preservative
✓ TSS	EPA 160.2	3x1000mL plastic	none
✓ Total Residual Chlorine	EPA 330.5	125mL plastic	none
✓ TPH-GRO	SW846 8015	3x VOA	HCl
✓ TPH-DRO	SW846 8015	2x1000mL amber	HCl
✓ TPH	EPA 1664	2x1000mL wide mouth glass w/ teflon-lined cap	H2SO4
✓ Cyanide	EPA 335.3	250mL plastic	NaOH
✓ Volatile Organics (1)	EPA 624	3x VOA	HCl
✓ Ethylene Dibromide	EPA 504.1	3x VOA	Na2S2O3
✓ Extractable Organics (2)	EPA 625	2x1000mL amber	none
✓ PAH	EPA 610 (HPLC)	2x1000mL amber	none
✓ PCB's	EPA 608	2x1000mL amber	none
✓ TAL Metals	EPA 200.7	250mL plastic	HNO3
✓ Mercury	EPA 245.1	250mL plastic	HNO3
✓ Hexavalent Chromium	EPA 218.4	125mL plastic	none
Herbicides (Pentachlorophenol) (3)	SW846 8151A	2x1000mL amber	none

Notes:

- (1) All VOA compounds (excluding EDB) and Oxygenates reported by method EPA 624. 1,4-Dioxane Report limit method EPA 624 = 100 ug/L
- (2) Extractable Organics include Phenols and Phthalates. Pentachlorophenol report limit by EPA 625 = 10 ug/L. The requested 1 ug/L limit requires analysis by method SW846 8151A
- (3) Only if needed for Pentachlorophenol 1 ug/L report limit.

Appendix III - Effluent Limitations

Parameter	Effluent Limit	Limit type based on monthly sample	Sample Type
1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/l) 50 mg/l for hydrostatic testing only	monthly average	grab
2. Total Residual Chlorine (TRC)	FW ¹ = 11 ug/l ² SW ³ = 7.5 ug/l ²	monthly average	grab
3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/l	daily maximum	grab
4. Cyanide (CN) ⁴	SW = 1.0 ug/l ⁵ FW = 5.2 ug/l ⁵	monthly average	grab
5. Benzene (B)	5.0 ug/l 50.0 ug/l - hydrostatic testing only	daily maximum	grab
6. Toluene (T)	(limited as ug/L total BTEX)	daily maximum	grab
7. Ethylbenzene (E) - 100414 -	(limited as ug/L total BTEX)	daily maximum	grab
8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX)	daily maximum	grab
9. Total BTEX ⁶	100 ug/l	daily maximum	grab
10. Ethylene Dibromide (EDB) (1,2- Dibromo-methane)	0.05 ug/l	daily maximum	grab
11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l	daily maximum	grab
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	Monitor Only (ug/L)	daily maximum	grab
13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L)	daily maximum	grab
14. Naphthalene	20 ug/l ⁷	daily maximum	grab
15. Carbon Tetrachloride	4.4 ug/l	daily maximum	grab
16. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/l	daily maximum	grab
17. 1,2 Dichlorobenzene (o-DCB)	600 ug/l	daily maximum	grab
18. 1,3 Dichlorobenzene (m-DCB)	320 ug/l	daily maximum	grab
19. Total dichlorobenzene	763 ug/l in NH only	daily maximum	grab
20. 1,1 Dichloroethane (DCA)	70 ug/l	daily maximum	grab
21. 1,2 Dichloroethane (DCA)	5.0 ug/l	daily maximum	grab
22. 1,1 Dichloroethylene (DCE)	3.2 ug/	daily maximum	grab

23. cis-1,2 Dichloro-ethylene (DCE)	70 ug/l	daily maximum	grab
24. Dichloromethane (Methylene Chloride)	4.6 ug/l	daily maximum	grab
25. Tetrachloroethylene (PCE)	5.0 ug/l	daily maximum	grab
26. 1,1,1 Trichloro-ethane (TCA)	200 ug/l	daily maximum	grab
27. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/l	daily maximum	grab
28. Trichloroethylene (TCE)	5.0 ug/l	daily maximum	grab
29. Vinyl Chloride (Chloroethene)	2.0 ug/l	daily maximum	grab
30. Acetone	Monitor Only (ug/L)	daily maximum	grab
31. 1,4 Dioxane	Monitor Only (ug/L)	daily maximum	grab
32. Total Phenols	300 ug/l	daily maximum	grab
33. Pentachlorophenol (PCP)	1.0 ug/l	daily maximum	grab
34. Total Phthalates ⁸ (Phthalate esthers)	3.0 ug/L	monthly average	grab
35. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	6.0 ug/l	daily maximum	grab
36. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/l	daily maximum	grab
a. Benzo(a) Anthracene	0.0038 ug/l ⁹	daily maximum	grab
b. Benzo(a) Pyrene	0.0038 ug/l ⁹	daily maximum	grab
c. Benzo(b)Fluoranthene	0.0038 ug/l ⁹	daily maximum	grab
d. Benzo(k)Fluoranthene	0.0038 ug/l ⁹	daily maximum	grab
e. Chrysene	0.0038 ug/l ⁹	daily maximum	grab
f. Dibenzo(a,h)anthracene	0.0038 ug/l ⁹	daily maximum	grab
g. Indeno(1,2,3-cd) Pyrene	0.0038 ug/l ⁹	daily maximum	grab
37. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/l	daily maximum	grab
h. Acenaphthene	(limited as total ug/L Group II PAHs)	daily maximum	grab
i. Acenaphthylene	(limited as ug/L total Group II PAHs)	daily maximum	grab
j. Anthracene	(limited as ug/L total Group II PAHs)	daily maximum	grab
k. Benzo(ghi) Perylene	(limited as ug/L total Group II PAHs)	daily maximum	grab

l. Fluoranthene		(limited as ug/L total Group II PAHs)	daily maximum	grab
m. Fluorene		(limited as ug/L total Group II PAHs)	daily maximum	grab
n. Naphthalene		20 ug/l	daily maximum	grab
o. Phenanthrene		(limited as ug/L total Group II PAHs)	daily maximum	grab
p. Pyrene		(limited as ug/L total Group II PAHs)	daily maximum	grab
38. Total Polychlorinated Biphenyls (PCBs) ¹⁰		0.000064 ug/L ¹¹	daily maximum	grab
Metal parameters	Total Recoverable Metal Limit @ H = 50 mg/l CaCO ₃ ¹² for discharges in Massachusetts (ug/l)	Total Recoverable Metal Limit @ H = 25 mg/l CaCO ₃ ¹³ for Discharges in New Hampshire (ug/l)	Averaging Time	Sample Type
39. Antimony	5.6	5.6	daily maximum	grab
40. Arsenic	FW = 10 SW = 36	FW = 10 SW = 36	monthly average	grab
41. Cadmium	FW = 0.2 SW = 8.9	FW = 0.8 SW = 9.3	monthly average	grab
42. Chromium III (trivalent)	FW = 48.8 SW = 100	FW = 27.7 SW = 100	monthly average	grab
43. Chromium VI (hexavalent)	FW = 11.4 SW = 50.3	FW = 11.4 SW = 50.3	monthly average	grab
44. Copper	FW = 5.2 SW = 3.7	FW = 2.9 SW = 3.7	monthly average	grab
45. Lead	FW = 1.3 SW = 8.5	FW = 0.5 SW = 8.5	monthly average	grab
46. Mercury	FW = 0.9 SW = 1.1	FW = 0.9 SW = 1.1	monthly average	grab
47. Nickel	FW = 29.0 SW = 8.2	FW = 16.1 SW = 8.2	monthly average	grab
48. Selenium	FW = 5.0 SW = 71	FW = 5.0 SW = 71	monthly average	grab
49. Silver	FW = 1.2 SW = 2.2	FW = 0.4 SW = 2.2	daily maximum	grab
50. Zinc	FW = 66.6 SW = 85.6	FW = 37 SW = 85.6	monthly average	grab
51. Iron	1,000	1,000	daily maximum	grab

1. FW = fresh water.
2. Although the maximum values for TRC are 11 ug/l and 7.5 ug/l for freshwater and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 20 ug/l).
3. SW = salt water.
4. Limits for cyanide are based on EPA's water quality criteria expressed as micrograms (ug) of free cyanide per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
5. Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
6. BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.
7. Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
8. The sum of individual phthalate compounds.
9. Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
10. In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as *"total PCBs is the sum of all homologue, all isomer, all congener, or all Aroclor analyses."*
11. Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
12. Assumes FW Hardness Value (H) = 50 mg/l as CaCO₃ in MA: Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc which are Hardness Dependent.
13. Assumes FW Hardness Value (H) = 25 mg/L in NH for: Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc which are Hardness Dependent.

APPENDIX IV
TOTAL RECOVERABLE METALS LIMITATIONS (ug/L) AT SELECTED DILUTION
RANGES AND TECHNOLOGY BASED CEILING LIMITATIONS FOR
FACILITIES LOCATED IN MASSACHUSETTS
(for discharges to freshwater at H = 50 mg/L CaCO₃)¹

PARAMETER	DILUTION RANGE CONCENTRATION					
	0 - 5	5 -10	10 - 50	50 - 100	>100	CEILING VALUE
1. Antimony	5.6	30	60	141	141	141 ²
2. Arsenic	10	50	100	500	540	540 ³
3. Cadmium	0.2	1.0	2.0	10.0	20.0	260
4. Chromium ^{III} (Trivalent)	48.8	244	489	1,710	1,710	1,710
5. Chromium ^{VI} (Hexavalent)	11.4	57	114	570	1,140	1,710 ⁴
6. Copper	5.2	26	52	260	520	2,070
7. Lead	1.3	6.5	13	66	132	430
8. Mercury	0.9	2.3	2.3	2.3	2.3	2.3 ⁵
9. Nickel	29.0	145	290	1,451	2,380	2,380
10. Selenium	5.0	25	50	250	408	408 ⁶
11. Silver	1.2	6	12	57	115	240
12. Zinc	66.6	333	666	1,480	1,480	1,480
13. Iron	1,000	5,000	5,000	5,000	5,000	5,000

1. Based on 7Q10 Flow.

2. Based on 40 CFR 437.42, "The Centralized Waste Treatment Point Source Category - Subpart D - Multiple Wastestreams - Best Practicable Control Technology" (BPT) daily maximum for Antimony

3. Based on 40 CFR 445.11, "RCRA Subtitle C Landfill Best Practicable Control Technology" (BPT) for Arsenic.

4. Assumes Hexavalent Chromium reduced to Tri-valent Chromium in treatment.

5. Based on 40 CFR 437.42, "The Centralized Waste Treatment Point Source Category - Subpart D - Multiple Wastestreams - Best Practicable Control Technology" (BPT) daily maximum for Mercury

6. Based on 40 CFR 437.42, "The Centralized Waste Treatment Point Source Category - Subpart D - Multiple Wastestreams - Best Practicable Control Technology" (BPT) daily maximum for Selenium

APPENDIX D

November 07, 2005

RECEIVED

NOV 17 2005

Client: GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn: Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Nbr: Exxon 01-323
Date Received: 11/04/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Influent	NOK0497-01	11/01/05 04:00
Effluent	NOK0497-02	11/01/05 03:15
AS-EFF	NOK0497-03	11/04/05
Mid-Gac	NOK0497-04	11/01/05 03:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. These results relate only to the items tested, and this report may not be reproduced except in full and with the permission of the Laboratory. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times, with the exception of the pH.

All no responses from the attached "MCP Response Action Analytical Report Certification Form" are addressed below.

F. The full MCP 6010 CAM analyte list was not reported. Only those analytes requested on the chain of custody by the client were reported.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.
Report Approved By:

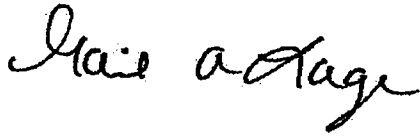
TestAmerica

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40



Gail Lage
Senior Project Manager



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Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

Sample Cooler Information

<u>Lab ID</u>	<u>Cooler ID</u>	<u>Temp</u>	<u>Seals</u>	<u>Containers Intact</u>	<u>Preservation Confirmed</u>	<u>On Ice</u>
	5730	0.C	Yes	Yes	Yes	Yes

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: TestAmerica Analytical Testing Corp.

Project #: Exxon 01-323

Project Location: Exxon 01-323 PO: 4505796387 City: Hopkinton

MADEP RTN:

This Form provides certifications for the following data set: Lab SDG # NOK0497

Sample Matrices: ☐ Groundwater ☒ Soil/Sediment ☐ Drinking Water ☐ Other

MCP SW-846 ☐ 8260B ☐ 8151A ☐ 8330 ☒ 6010B ☐ 7470A/1A

Methods Used ☐ 8270C ☐ 8081A ☐ VPH ☐ 6020 ☐ 9014M

☐ 8082 ☐ 8021B ☐ EPH ☐ 7000 S ☒ Other

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" Status

- A. Were all samples received by the laboratory in a condition consistent with that described on the chain-of-custody documentation for the data set? ☒ Yes ☐ No
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? ☒ Yes ☐ No
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? ☒ Yes ☐ No
- D. VPH and EPH methods only: Was the EPH or VPH method run without significant modifications, as specified in section 11.3? ☐ Yes ☐ No ☒ N/A

A response to questions E and F below is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified methods achieved? ☒ Yes ☐ No
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No

All No answers must be addressed in an attached Laboratory Case Narrative

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Carla A. Large Position: Senior Project Manager

Printed Name: Carla A. Large Date: 11-7-05

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TestAmerica Analytical Testing Corporation | TestAmerica Drilling Corporation | TestAmerica Air Emission Corporation



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Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-01 (Influent - Water) Sampled: 11/01/05 04:00										
General Chemistry Parameters										
pH	6.30	pH Units	HTI	0.100	1	11/07/05 14:30	11/07/05 14:40	BLM	EPA 150.1	5110820



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ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-01 (Influent - Water) - cont. Sampled: 11/01/05 04:00										
Total Metals by EPA Method 6010B										
Copper	0.0529	mg/L		0.0100	1	11/04/05 12:06	11/04/05 16:00	CLO	SW846 6010B	5110747
Iron	25.1	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:00	CLO	SW846 6010B	5110747
Lead	0.00530	mg/L		0.00500	1	11/04/05 12:06	11/04/05 16:00	CLO	SW846 6010B	5110747
Zinc	0.0692	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:00	CLO	SW846 6010B	5110747



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Project Number: Exxon 01-323
Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-02 (Effluent - Water) Sampled: 11/01/05 03:15										
General Chemistry Parameters										
pH	9.30	pH Units	HTI	0.100	1	11/07/05 14:30	11/07/05 14:40	BLM	EPA 150.1	5110820



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ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-02 (Effluent - Water) - cont. Sampled: 11/01/05 03:15										
Total Metals by EPA Method 6010B										
Copper	ND	mg/L		0.0100	1	11/04/05 12:06	11/04/05 16:04	CLO	SW846 6010B	5110747
Iron	ND	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:04	CLO	SW846 6010B	5110747
Lead	ND	mg/L		0.00500	1	11/04/05 12:06	11/04/05 16:04	CLO	SW846 6010B	5110747
Zinc	ND	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:04	CLO	SW846 6010B	5110747



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Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-03 (AS-EFF - Water) Sampled: 11/04/05 00:00										
General Chemistry Parameters										
pH	7.40	pH Units	HTI	0.100	1	11/07/05 14:30	11/07/05 14:40	BLM	EPA 150.1	5110820



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Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-03 (AS-EFF - Water) - cont. Sampled: 11/04/05 00:00										
Total Metals by EPA Method 6010B										
Copper	0.0329	mg/L		0.0100	1	11/04/05 12:06	11/04/05 16:32	CLO	SW846 6010B	5110747
Iron	20.6	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:32	CLO	SW846 6010B	5110747
Lead	0.00580	mg/L		0.00500	1	11/04/05 12:06	11/04/05 16:32	CLO	SW846 6010B	5110747
Zinc	0.159	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:32	CLO	SW846 6010B	5110747



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Project Number: Exxon 01-323
Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-04 (Mid-Gac - Water) Sampled: 11/01/05 03:30										
General Chemistry Parameters										
pH	9.10	pH Units	HTI	0.100	1	11/07/05 14:30	11/07/05 14:40	BLM	EPA 150.1	5110820



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Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NOK0497-04 (Mid-Gac - Water) - cont. Sampled: 11/01/05 03:30										
Total Metals by EPA Method 6010B										
Copper	ND	mg/L		0.0100	1	11/04/05 12:06	11/04/05 16:36	CLO	SW846 6010B	5110747
Iron	0.0980	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:36	CLO	SW846 6010B	5110747
Lead	ND	mg/L		0.00500	1	11/04/05 12:06	11/04/05 16:36	CLO	SW846 6010B	5110747
Zinc	ND	mg/L		0.0500	1	11/04/05 12:06	11/04/05 16:36	CLO	SW846 6010B	5110747



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Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Total Metals by EPA Method 6010B							
SW846 6010B	5110747	NOK0497-01	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-01	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-01	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-01	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-02	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-02	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-02	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-02	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-03	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-03	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-03	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-03	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-04	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-04	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-04	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A
SW846 6010B	5110747	NOK0497-04	50.00	50.00	11/04/05 12:06	JLS	EPA 3010A



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Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Total Metals by EPA Method 6010B						
5110747-BLK1						
Copper	<0.00650		mg/L	5110747	5110747-BLK1	11/04/05 15:52
Iron	<0.0280		mg/L	5110747	5110747-BLK1	11/04/05 15:52
Lead	<0.00240		mg/L	5110747	5110747-BLK1	11/04/05 15:52
Zinc	<0.00640		mg/L	5110747	5110747-BLK1	11/04/05 15:52



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Project Number: Exxon 01-323
Received: 11/04/05 07:40

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
5110820-DUP1									
pH	7.80	7.90		pH Units	1	200	5110820	NOK0558-01	11/07/05 14:40



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Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Total Metals by EPA Method 6010B								
5110747-BS1								
Copper	0.250	0.250		mg/L	100%	80 - 120	5110747	11/04/05 15:56
Iron	1.00	0.993		mg/L	99%	80 - 120	5110747	11/04/05 15:56
Lead	0.0500	0.0548		mg/L	110%	80 - 120	5110747	11/04/05 15:56
Zinc	0.500	0.595		mg/L	119%	80 - 120	5110747	11/04/05 15:56



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Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Total Metals by EPA Method 6010B										
5110747-MS1										
Copper	ND	0.265		mg/L	0.250	106%	75 - 125	5110747	NOK0497-02	11/04/05 16:24
Iron	ND	0.950		mg/L	1.00	95%	75 - 125	5110747	NOK0497-02	11/04/05 16:24
Lead	ND	0.0515		mg/L	0.0500	103%	75 - 125	5110747	NOK0497-02	11/04/05 16:24
Zinc	0.0127	0.508		mg/L	0.500	99%	75 - 125	5110747	NOK0497-02	11/04/05 16:24



ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
Westford, MA 01886
Attn Paul McKinlay

Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B											
5110747-MSD1											
Copper	ND	0.260		mg/L	0.250	104%	75 - 125	2 20	5110747	NOK0497-02	11/04/05 16:28
Iron	ND	0.940		mg/L	1.00	94%	75 - 125	1 20	5110747	NOK0497-02	11/04/05 16:28
Lead	ND	0.0517		mg/L	0.0500	103%	75 - 125	0.4 20	5110747	NOK0497-02	11/04/05 16:28
Zinc	0.0127	0.506		mg/L	0.500	99%	75 - 125	0.4 20	5110747	NOK0497-02	11/04/05 16:28



ANALYTICAL TESTING CORPORATION

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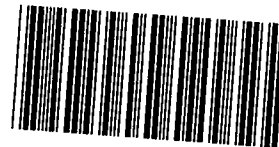
Client GES Westford (10118) EM D. Baker
364 Littleton Road, Suite 4
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Work Order: NOK0497
Project Name: Exxon 01-323 PO: 4505796387
Project Number: Exxon 01-323
Received: 11/04/05 07:40

DATA QUALIFIERS AND DEFINITIONS

HTI The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

METHOD MODIFICATION NOTES



NOK0497

COOLER RECEIPT FORM

BC#

Client Name : GES

Cooler Received/Opened On: 11/04/05 Accessioned By: Mike McBride

Mike McBride

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 00 Degrees Celsius
2. Were custody seals on outside of cooler?..... ☒ YES...NO...NA
 - a. If yes, how many and where: (1) Front
3. Were custody seals on containers?..... ☒ NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... ☒ YES...NO...NA
5. Were custody papers inside cooler?..... ☒ YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... ☒ YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... ☒ YES...NO...NA
8. What kind of packing material used? ☒ Bubblewrap Peanuts Vermiculite Foam Insert
Ziplock baggies Paper Other None
9. Cooling process: ☒ Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... ☒ YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... ☒ YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... ☒ YES...NO...NA
13. Were correct containers used for the analysis requested?..... ☒ YES...NO...NA
14. a. Were VOA vials received?..... YES...☒ NO...NA
 - b. Was there any observable head space present in any VOA vial?..... NO...YES...☒ NA
15. Was sufficient amount of sample sent in each container?..... ☒ YES...NO...NA
16. Were correct preservatives used?..... ☒ YES...NO...NA
 - If not, record standard ID of preservative used here _____
17. Was residual chlorine present?..... ☒ NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
5730
☒ Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

APPENDIX E

PROCESS FLOW DIAGRAM

Mobil Service Station #11053
(formerly 01-323)
NPDES Remediation General Permit
Notice of Intent
February 2001

