SECOR
International Incorporated

Additional Environmental Investigation Report
Bruce Titus Nissan Subaru
4030 South Tacoma Way
Tacoma, Washington

SECOR PN: 001.01287

Submitted by
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Prepared For
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December 21, 2001

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1.0 INTRODUCTION

SECOR International Incorporated (SECOR) is pleased to present this Additional Environmental Investigation Report to Bank One for the Bruce Titus Nissan Subaru located at 4030 South Tacoma Way, Tacoma, Washington (subject property). SECOR was authorized to prepare this report by Bank One in accordance with SECOR Proposal No. 001-01-P130, dated November 12, 2001. SECOR was contracted to conduct this additional environmental investigation by Bank One to further assess the subsurface groundwater conditions on the subject property and to identify potential on and off-site sources. This report presents a summary of the work accomplished, results of soil and groundwater sample analysis, and conclusions of the investigation.

1.1 OBJECTIVE

The objective of this additional environmental investigation was to install and sample permanent groundwater monitoring wells to further assess sources of contaminants identified in screening-level groundwater samples collected previously at the subject property.

1.2 BACKGROUND

SECOR completed a Phase I Environmental Site Assessment (Phase I ESA) for the subject property in June 2001. The findings of the Phase I ESA were provided in a report submitted to Bank One on July 10, 2001.

The following recognized environmental conditions were identified on the subject property in SECOR's Phase I ESA:

- Historical use of the subject property from at least 1930 to 1986 included use as a lumber yard, an oil blending and compounding plant, and a used car lot with an automotive service center. Due to the types of materials used and historic business practices that were common in those industries, the subsurface media at the subject property may have been adversely impacted.

- Staining and poor house keeping practices observed in the areas of the parts washing stations, tool room, vehicle work station areas, and the used oil tank cage. These observations were made throughout the subject property, and may indicate that subsurface impacts have occurred at the subject property.

- The integrity of the hydraulic hoists, trench drain, and oil water separator (OWS) could not be confirmed during the Phase I ESA. Based on the age of the facilities (12 years old) and the lack of integrity testing, the subsurface media at the subject property may have been adversely impacted.

Based on the findings of the Phase I ESA, SECOR completed a Phase II Subsurface Investigation in September 2001 to assess the quality of subsurface soils and groundwater at the subject property. SECOR supervised the drilling of eight soil borings and the collection of groundwater samples from well screen set in soil borings on the subject property. Apparent fill material was observed at depths ranging between approximately 8 to 15 feet below ground surface (bgs) that increased in thickness from east to west in the subsurface soils on the subject property. Below approximately 15 feet bgs, SECOR observed relatively homogeneous sands with trace gravels to a maximum exploratory depth of 50 feet bgs. Based on the results of the investigation, no evidence of significant soil impacts was identified. However, analytical results for the groundwater samples collected from the screen set in the temporary soil borings, indicated that trichloroethylene (TCE) was detected in both groundwater samples at concentrations of 15 micrograms per liter (µg/l) and 49 µg/l in the samples collected from B-4 and B-5, respectively. The reported TCE

concentrations are greater than the Model Toxics Control Act (MTCA) Method A Cleanup Level for TCE (5 µg/l). Methylene chloride was also detected in B-5 (5.9 µg/l) at a concentration above the MTCA Method A cleanup level of 5 µg/l.

Based on the data collected during the Phase II Subsurface Investigation, the source of the identified groundwater contamination was not evident. TCE was not detected in soil above the laboratory method reporting limit. However, the detected TCE concentrations in on-site groundwater samples were greater at the monitoring point located within the service center. In addition, the groundwater samples collected from the temporary borings may have contained high amounts of suspended solids possibly interfering and/or causing the readings to be elevated and not necessarily representative of true groundwater conditions at the subject property. Consequently, SECOR recommended that additional assessment including the installation and sampling of permanent groundwater monitoring wells be conducted at the subject property to further assess potential on and off-site sources of TCE in groundwater.

1.3 SITE LOCATION AND DESCRIPTION

The subject property is currently occupied by the Bruce Titus Nissan Subaru Dealership, a retail car sales facility, and is located in a commercial/industrial area at 4030 South Tacoma Way, Tacoma, Washington. Current development consists of one two-story, approximately 20,680-square-foot building consisting of a sales/reception area, associated offices, and a vehicle service area. In addition to retail car sales, the facility provides vehicle maintenance (e.g. oil changes, tune-ups, system upgrades, etc.). The subject property has been operating as a car dealership and auto service facility since the initial construction (1989) of the existing facility. There are no reported underground storage tanks located at the subject property. However, there are several above ground storage tanks (ASTs) used to store new motor oil, an AST used to store new transmission fluid, antifreeze ASTs, and a used oil AST. Historical use of the subject property from at least 1930 to 1986 included a lumber yard, an oil blending and compounding plant, and a used car lot with an automotive service center.

The subject property is bordered to the north by a veterinary clinic and additional parking for the subject property followed by a vacant used car lot; to the west by railroad tracks followed by undeveloped land; to the south by a machine design and manufacturing facility; to the southeast by a used car lot; and to the east by South Tacoma Way followed by a new and used car dealership.

The topography in the vicinity of the subject property slopes slightly downward to the west. Based on the topography in the immediate vicinity of the subject property, shallow groundwater is expected to follow the surface contour to the west; however, local groundwater flow direction may vary. The subject property location is shown on Figure 1.

1.4 LOCAL GEOLOGIC AND HYDROGEOLOGIC SETTING

The Puget Sound Region is underlain by Quaternary sediments deposited by a number of glacial episodes. Deposition occurred during a number of glacial advances and retreats which created the existing subsurface conditions. The regional sediments consist primarily of interlayered and/or sequential deposits of alluvial clays, silts, and sands that are typically situated over deposits of glacial till. Outwash sediments consisting of sand, silt, and clay were deposited by rivers, streams, and post-glacial lakes during the glacial retreats. With the exception of the most recent recessional deposits, the outwash sediments have been over-consolidated by the overriding ice sheets.

The glacial drift is comprised of unconsolidated sand, gravel, silt, and clay, and partially consolidated glacial till. The sand and gravel units in the drift form the principal aquifers. These aquifers typically receive

ample recharge from the heavy precipitation characteristic of western Washington. The drift in the Puget Sound region varies greatly in composition, and accordingly, in water-yielding capability. Typically, wells in glacial drift that tap silt, clay or till in the Puget Sound region (i.e., approximately 75 to 100 feet bgs) may have yields on the order of 100 gallons per minute (gpm). Deeper wells tapping thick, saturated layers of highly permeable gravel and coarse sand (typically at depths greater than 250 feet bgs) can yield more than 1,000 gpm.

Field observations during SECOR's Phase II Subsurface Investigation conducted in September 2001 and during this additional investigation indicated that subsurface soil over the subject property consisted of apparent fill material at depths ranging between 8 to 15 feet bgs with increasing thickness from east to west, underlain by fine to medium sands, with trace silts and trace gravels. SECOR observed relatively homogenous formations of sands with trace gravels from approximately 15 to 20 bgs to a maximum exploratory depth of 60 feet bgs. Groundwater was encountered at approximately 45-feet bgs during field activities. The boring logs with specific lithologies encountered at the subject property are presented in Appendix A.

2.0 FIELD INVESTIGATION

The field investigation was implemented in accordance with SECOR's proposal dated November 12, 2001. An overview of the methods, procedures, and rational used during the field investigation is presented as follows.

2.1 FIELD PROGRAM

SECOR supervised the drilling of four soil borings (MW-1, MW-2, MW-3, and MW-4) on November 20 and November 21, 2001, which were completed as permanent monitoring wells. The soil borings were advanced at the locations depicted on Figure 2. MW-1 was placed on the southeastern portion of the subject property, MW-2 was placed on the northern portion of the subject property, MW-3 was placed abutting the northern area of the automotive service center, and MW-4 was placed on the southwestern portion of the subject property, north of the used oil caged area.

2.1.1. Health and Safety

A site-specific Health and Safety Plan (HASP) was generated for the subject property as part of the project. The HASP identified potential physical and chemical hazards associated with the proposed field activities, and established personnel protection standards and mandatory safety practices and procedures for use during the field activities. The HASP also included information on suspected chemical compounds to be encountered, a list of monitoring equipment, the required protective clothing and equipment, a map and directions to the nearest hospital, and a list of emergency telephone numbers. The HASP was available on-site at all times during the field activities. All SECOR personnel and subcontractors working on-site were required to review, sign, and comply with the provisions put forth in the HASP.

2.1.2. Utility Clearance

Prior to the boring installation, SECOR arranged to have a municipal underground utility location service identify subsurface municipal utilities located in public rights-of-way. In addition, SECOR contracted with a private underground utility location service, Applied Professional Services of Issaquah, Washington (APS), to clear the marked proposed boring locations on the subject property.

2.2 DRILLING PROCEDURES

Cascade Drilling, Inc. of Woodinville, Washington (Cascade) completed the drilling of four hollow stem auger (HSA) soil borings and installation of monitoring wells in the borings (MW-1 through MW-4), under SECOR's supervision on November 20 and 21, 2001. The boring locations are indicated on Figure 2 (attached). Cascade advanced the borings using a CME-75 drilling rig equipped with eight-inch outside-diameter hollow-stem augers. The maximum depth of exploration was approximately 60 feet bgs.

2.3 SOIL SAMPLING PROCEDURES

Soil samples were collected at approximate 5-foot intervals for lithologic descriptions and field screening for the presence of petroleum hydrocarbons. Samples were collected using an 18-inch split-spoon sampler containing three brass sleeves. The sampler was advanced beyond the auger tool into undisturbed soils at the bottom of the borehole by dropping a 140-pound hammer repeatedly from a height of about 30 inches (per

ASTM D1586). The number of blows required to advance the sampler for each 6-inch interval was recorded on the boring log.

The sampler was then withdrawn from the boring and opened. The center brass sleeve was collected for potential laboratory analysis by capping the ends with Teflon sample liners and plastic end caps. Non-adhesive silicon tape was used to secure the end caps to the brass tube.

The soil was classified in accordance with the Unified Soil Classification System (USCS). USCS classifications are presented in the boring logs attached as Appendix A.

A photoionization detector (PID) was used to monitor the soils contained in the brass sleeves not submitted for analysis for VOC vapors. A small amount of this soil was placed into a small, re-sealable plastic bag. The top of the bag was then closed and allowed to sit for approximately 10 minutes before the PID probe was inserted into the headspace of the bag to measure for VOC vapors.

2.4 GROUNDWATER MONITORING WELL INSTALLATION

During advancement of the hollow-stem auger borings, the depth of saturation in the subsurface soils was observed and used to establish the total well depths. The total depth of each monitoring well was determined based on the observed soil conditions and depth to first encountered groundwater. Two-inch diameter, 0.010-inch slot, schedule 40 poly-vinyl chloride (PVC) casing was placed into each borehole through the annulus of the hollow stem augers. The slotted casing was attached by pre-fabricated pipe threads to two-inch diameter, non-slotted, schedule 40 PVC casing.

After the well casing was placed, #2/12 Monterey Sand was placed from the bottom of the borehole to 2-feet above the top of the slotted casing. As the sand level rose, the augers were raised slowly and removed from the borings, one five-foot section at a time. During installation, the sand pack elevation was monitored regularly by the drilling crew to ensure that the sand level was always above the elevation of the bottom of the lead auger during auger removal.

Medium sized bentonite chips were poured through the annulus of the augers and hydrated, to form a seal over the sand pack. A traffic rated well box was set in concrete overlying the bentonite seal. The top of the well box was elevated approximately ½ inch above the existing grade to protect the wellhead and to prevent surface water infiltration into the wellbox. Illustrations of the construction of each well are presented on the boring logs, included in Appendix A.

2.5 GROUNDWATER MONITORING WELL DEVELOPMENT

On November 20 and 21, 2001, the monitoring wells were developed. The monitoring wells were developed in general accordance with SECOR protocols by intermittently surging and developing the wells with a down hole submersible pump or disposable polyethylene bailer. Sediments accumulated at the bottom of the wells were agitated suing the surge block and removed with the pump from the well casing.

2.6 GROUNDWATER SAMPLING PROCEDURES

Prior to monitoring well development and purging activities, the depth to groundwater was measured to the nearest 0.01 foot using an electronic water level meter. The depth to the groundwater surface was used to determine the volume of groundwater in the casing and to calculate the groundwater elevations in each well. During well development approximately five well volumes of groundwater was removed from each well. After

sufficient time had elapsed following purging to allow the groundwater to recharge to 80 percent of the pre-purge level, representative groundwater samples were collected using a polypropylene disposable bailer. The water samples were collected from the base of the bailers using a bottom-emptying device to minimize volatilization of possible contaminants.

Groundwater was placed directly into laboratory provided 40-milliliter glass vials that were filled so that no air was present, and sealed with Teflon-lined septum, screw-on caps. Labels containing sample number, well identification, date and time collected, type of sample and type of preservative were affixed to each sample container. The sample containers were packed in ice and placed into a cooler for delivery under Chain-of-Custody to a laboratory for chemical testing.

2.7 DECONTAMINATION PROCEDURES / CONTAINMENT OF MATERIALS

All the soil sampling and non-dedicated groundwater monitoring and sampling equipment was decontaminated in an Alconox wash solution and double-rinsed with tap water followed by distilled water, prior to each use. In addition, the hollow stem augers were decontaminated with pressurized hot water prior to drilling each boring to prevent cross-contamination from one boring to the next.

Soil drill cuttings, well purge water and decontamination water generated during development and sampling of the onsite wells were stored onsite in labeled DOT approved 55-gallon steel drums pending sample analysis and subsequent transport to an approved facility for disposal.

2.8 GROUNDWATER MONITORING WELLHEAD SURVEY PROCEDURES

To facilitate groundwater elevation calculations, Diversified Surveying Services, Inc. of Tacoma, Washington surveyed the well casings on December 10, 2001. An arbitrary benchmark was assigned to the top of casing at MW-2 and assumed at 100.00 feet above mean sea level. At each monitoring well location, the top of casing elevation was measured to within 0.01-foot. The survey rod was placed on a black mark previously made on the north side of the top of each well casing. The black mark was made survey and depth to water measurements.

The groundwater elevations were then calculated using the top of casing elevations and depth to water data. The groundwater elevation at each well location was plotted on a site map and elevation contours were drawn. The groundwater elevation contours and inferred groundwater gradient and flow direction are graphically shown on Figure 3. A summary of the survey and groundwater depth data is included in Table 1.

2.9 LABORATORY ANALYTICAL PROGRAM

Targeted contaminants of concern at the subject property were identified based on the current and historical use of the subject property and results of the Phase II Subsurface Investigation (SECOR, 2001). A total of four groundwater samples and 27 soil samples were collected from MW-1 through MW-4 at the subject property on November 20 and 21, 2001. Selected soil and groundwater samples were analyzed at On-Site Environmental, Inc. of Redmond, Washington (On-Site).

Soil samples MW-1-30, MW-2-40, MW-3-40, and MW-4-30 were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Groundwater samples collected from MW-1 through MW-4 were also analyzed for VOCs using EPA Method 8260B.

The laboratory analytical reports and chain of custody documents are included in Appendix B.

3.0 FINDINGS

3.1 GEOLOGY AND LOCAL HYDROLOGY

Based on field observations from this assessment, subsurface soils at the subject property consisted primarily of fine to medium grained sands and silty sands with gravel, to maximum exploratory depths of approximately 60-feet bgs. Groundwater was encountered at approximately 45-feet bgs during field activities.

Based on the inferred groundwater elevation contours drawn for the November 21, 2001 monitoring event, (Figure 3), the groundwater flow direction at the subject property to be toward MW-3, located in the central portion of the subject property. However, when groundwater was contoured without the MW-3 data, the overall groundwater flow direction at the site appears to be toward the north-northeast, with an average hydraulic gradient of 0.0003 vertical feet per horizontal foot (ft/ft). SECOR also collected water level elevations at the subject property on December 17, 2001. The results of this monitoring event confirmed the groundwater flow direction and gradient observed in November 2001. The boring logs are presented in Appendix A.

3.2 SOIL AND GROUNDWATER ANALYTICAL RESULTS

Laboratory results for soil samples collected from borings MW-1 through MW-4 are summarized in Table 2. Laboratory results for the groundwater samples collected from permanent wells MW-1 through MW-4 are summarized in Table 3. Copies of the laboratory data for the soil and groundwater samples are provided in Appendix B.

Ecology's new MTCA Method A and B cleanup levels became effective on August 15, 2001. For compounds where Method A cleanup levels have not been established, the risk-based Method B cleanup values are used for comparison.

3.2.1. Soil

Analytical results indicated that all soil samples submitted for analysis did not contain any analyte at concentrations exceeding their respective MTCA Method A for soil. The soil analytical results are summarized on Table 2.

3.2.2. Groundwater

TCE was detected in groundwater in MW-1 (130 µg/l), MW-2 (33 µg/l), MW-3 (62 µg/l), and MW-4 (11 µg/l) at concentrations greater than the MTCA Method A cleanup level of 5 µg/l. Chloroform was detected at a concentration of 8.2 µg/l in MW-3 and at a concentration of 9.2 µg/l in MW-4; both of these concentrations are greater than MTCA Method B cleanup level of 7.17 µg/l for chloroform. 1,2 Dichloropropane was detected at a concentration of 0.71 µg/l in MW-2, above the MTCA Standard Method B level of 0.643 µg/l. Bromodichlormethane was detected at a concentration of 0.77 µg/l in MW-3 and at a concentration of 0.95 µg/l in MW-4, above the MTCA Standard Method B level of 0.706 µg/l. The groundwater analytical results are summarized on Table 3.

3.3 INVESTIGATION DERIVED WASTES

All investigation derived wastes generated as a result of this assessment were stored in Department of Transportation (DOT) approved 55-gallon drums and temporarily stored on the subject property pending receipt of analytical results. Based on the analytical results, the waste may be disposed as non-hazardous waste.

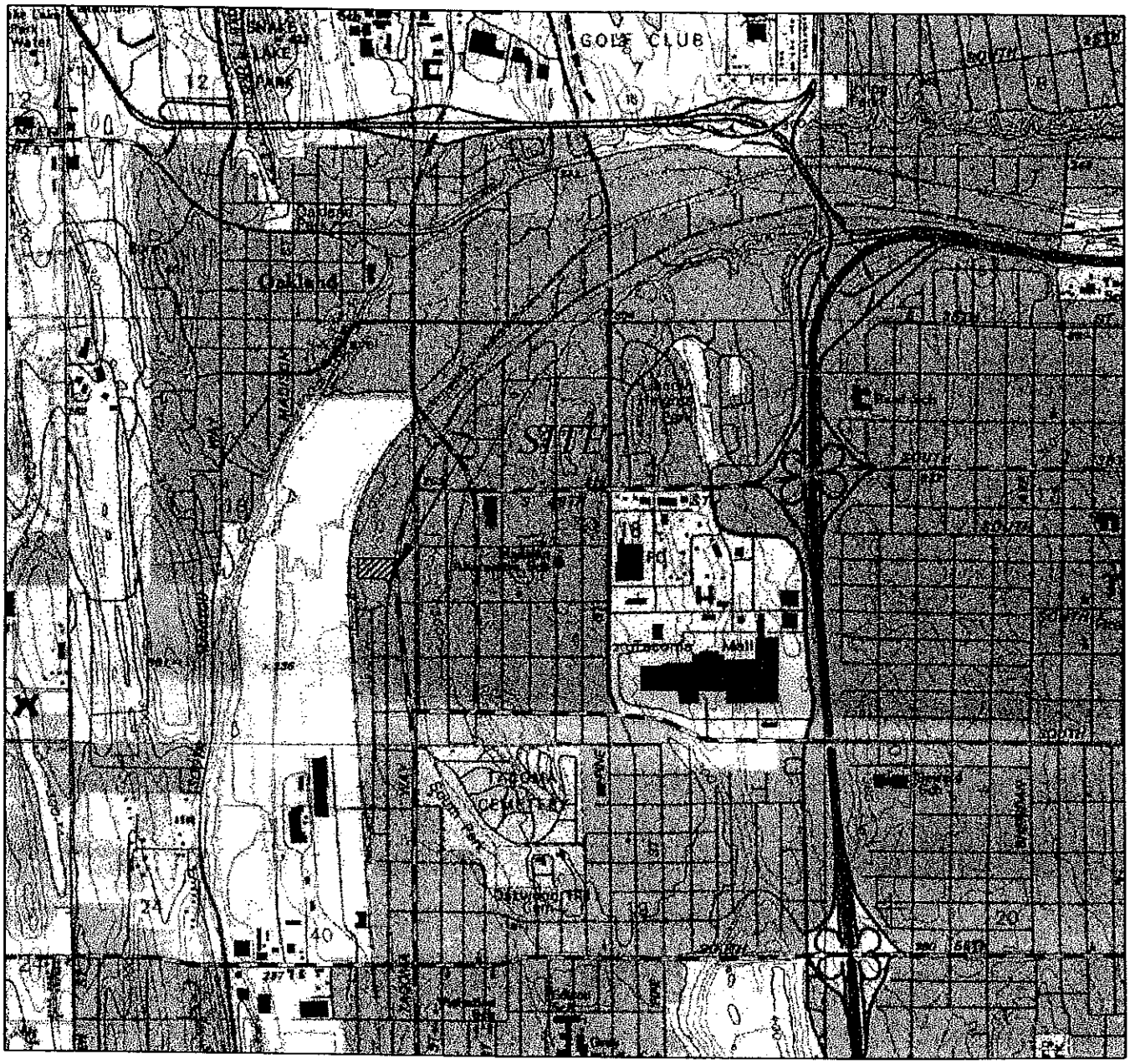
4.0 CONCLUSIONS

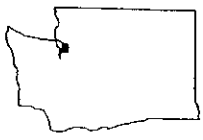
SECOR has completed an Additional Environmental Investigation of the subject property located at the Bruce Titus Nissan Subaru located at 4030 South Tacoma Way, Tacoma, Pierce County, Washington. SECOR supervised the drilling of four soil borings which were completed as permanent monitoring wells on the subject property (MW-1 through MW-4). Based on the results of this investigation on the subject property, no evidence of significant soil impacts were identified. As previously discussed, compounds where MTCA Method A cleanup levels have not been established, the standard risk-based MTCA Method B cleanup values were used for comparison. TCE was detected in groundwater at concentrations greater than the MTCA Method A groundwater cleanup level of 5 µg/l in all groundwater samples collected from the subject property. Chloroform was detected in groundwater at two monitoring well locations (MW-3 and MW-4) at concentrations slightly above the MTCA Standard Method B. 1,2 Dichloropropane also was detected in groundwater in one well (MW-2) at a concentration slightly above the MTCA Standard Method B cleanup level. Bromodichloromethane was detected in groundwater at two monitoring well locations (MW-3 and MW-4) at concentrations slightly above the MTCA Standard Method B.

Based on the soil analytical results of this Additional Investigation and the Phase II Subsurface Investigation, an on-site source for the TCE detected in groundwater at the subject property has not been identified. TCE was detected at low concentrations in soil samples collected during this investigation at depths ranging from 30 to 40 feet bgs. However, TCE was not detected in any of the soil samples collected during the Phase II Subsurface Investigation. The Phase II Subsurface Investigation soil samples were collected at depths ranging from 5 to 40 feet bgs, and were collected in areas with the greatest potential for impact. Therefore, the TCE detected in soil samples collected during this investigation likely represent TCE adsorbed to soil in the capillary fringe during migration of impacted groundwater through this zone.

The overall groundwater flow direction at the site appears to be toward the north-northeast. Based on this, the property located south of the subject property appears to be a potential source of the TCE in groundwater. However, the distribution of TCE in groundwater, with the greatest concentration detected in the sample collected from MW-1 (the easternmost well at the site) indicates that a source may be present east of the subject property.

FIGURES





WASHINGTON

North

0 1/2 1

SCALE (MILES)

REFERENCE: USGS 7.5 MINUTE QUADRANGLES; STEILACOOM, WASHINGTON; 1959, PHOTOREVISED 1981
TACOMA SOUTH, WASHINGTON; 1961, REVISED 1994

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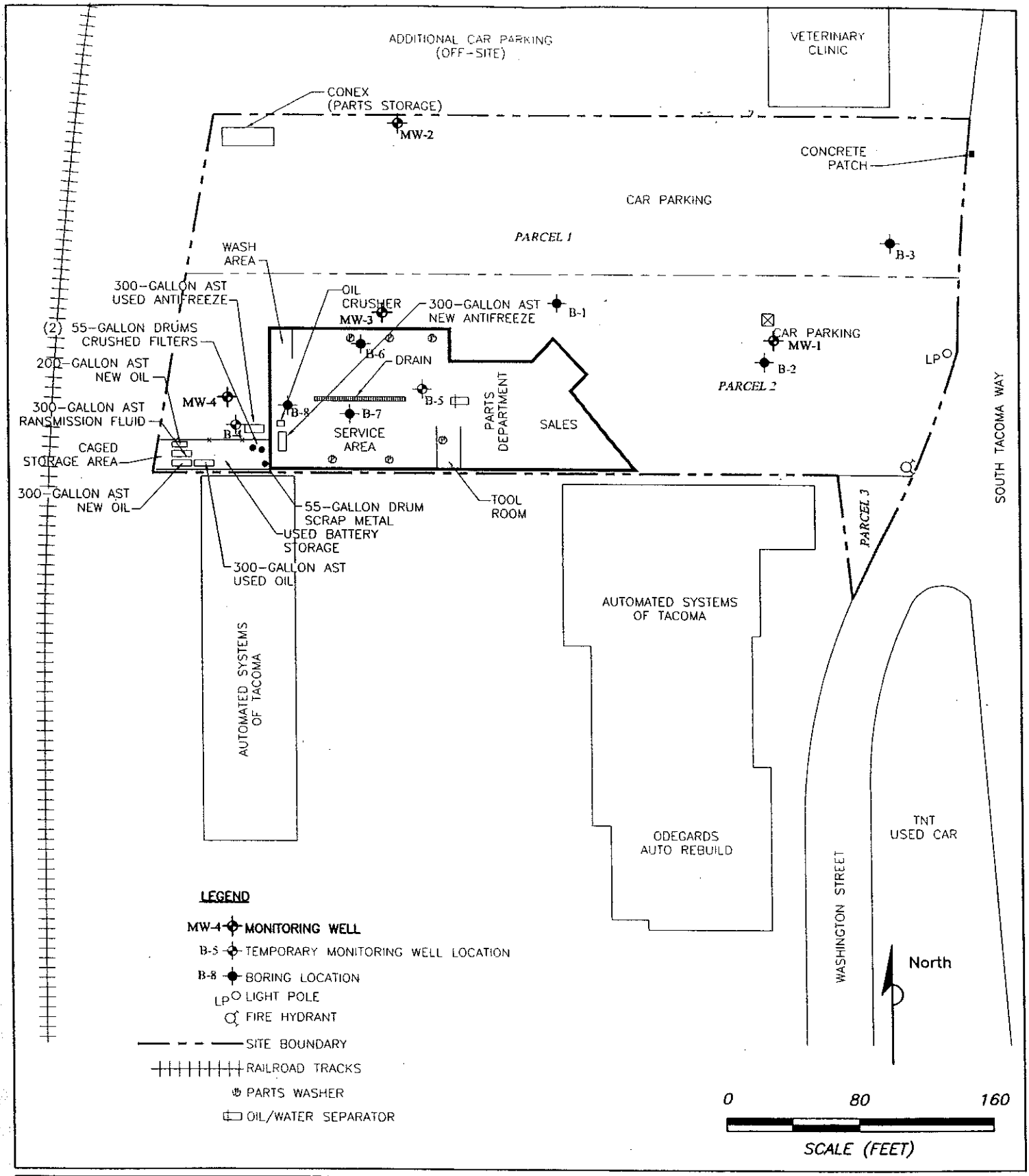
SITE LOCATION MAP

BRUCE TITUS NISSIAN SUBARU DEALERSHIP
4030 SOUTH TACOMA WAY
TACOMA, WASHINGTON

FIGURE: 1

JOB#: 001.01236.001 APPR: DWN: SES DATE: 7/6/01



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SITE PLAN
WITH NEW MONITORING WELL LOCATIONS
BRUCE TITUS NISSAN SUBARU DEALERSHIP
4030 SOUTH TACOM WAY
TACOMA, WASHINGTON

FIGURE: 2

JOB#: 001.01287.001 APPR: DWN: SES DATE: 11/30/01

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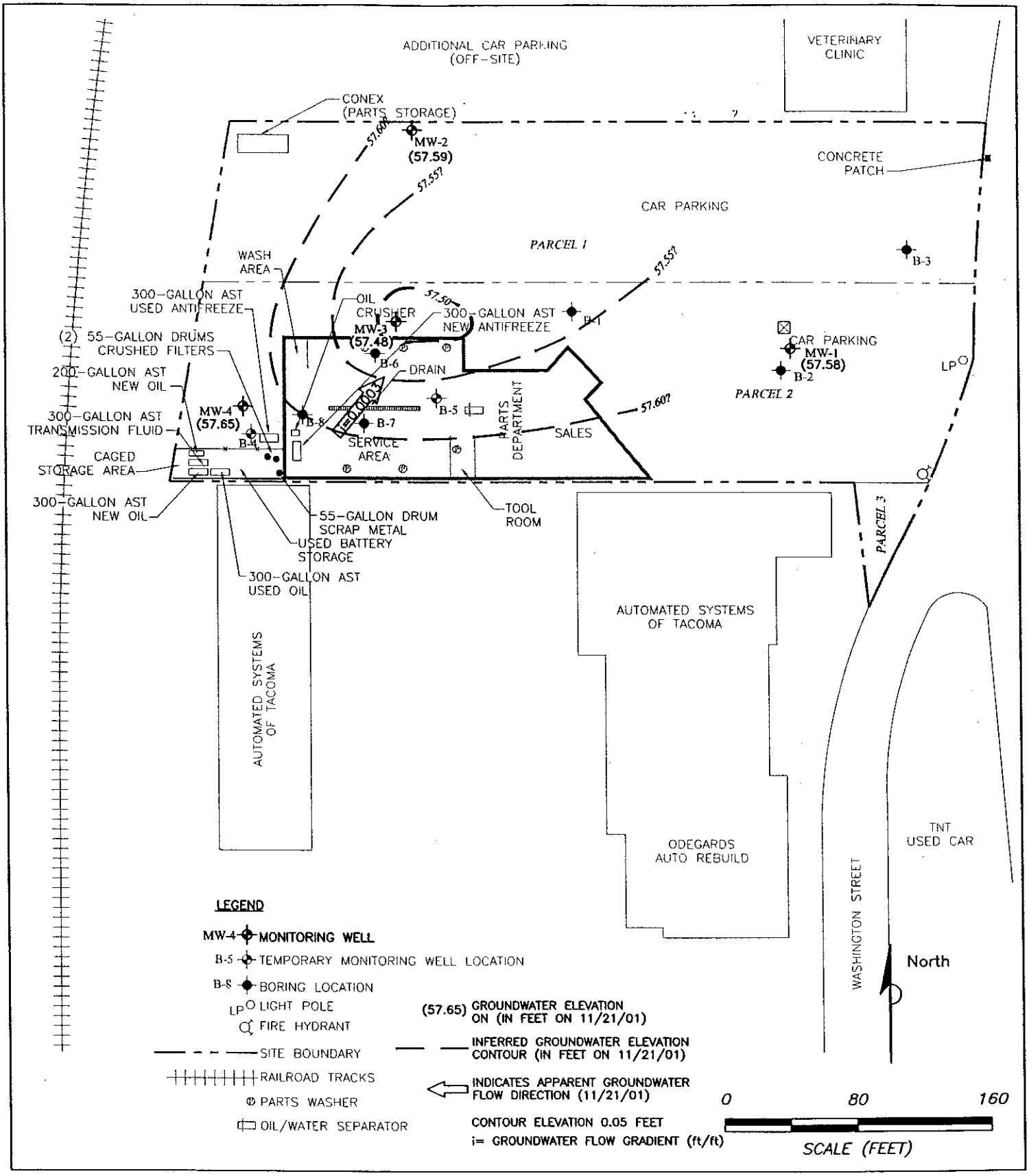

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GROUNDWATER ELEVATION CONTOUR MAP (NOVEMBER 21, 2001)
BRUCE TITUS NISSAN SUBARU DEALERSHIP
4030 SOUTH TACOM WAY
TACOMA, WASHINGTON

FIGURE: 3

JOB#: 001.01287.001 APPR: DWN: SES DATE: 11/30/01

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DWG: 01012871(2a)

TABLES

Table 1
Summary of Groundwater Depth and Elevation Data
Bruce Titus Nissan Subaru
4030 South Tacoma Way
Tacoma, Washington
SECOR PN: 001.01287.001

Well Number	Depth to Water (DTW) [a]	Top of Casing (TOC) Elevation [b]	Groundwater Elevation [b]
November 21, 2001			
MW-1	41.01	98.59	57.58
MW-2	42.41	100.00	57.59
MW-3	43.06	100.54	57.48
MW-4	42.7	100.35	57.65
December 17, 2001			
MW-1	39.96	98.59	58.63
MW-2	41.21	100.00	58.79
MW-3	41.91	100.54	58.63
MW-4	41.52	100.35	58.83

Notes:

a - Depth in feet below top of well casing

b - Elevation in feet above mean sea level relative to arbitrary site datum

Survey Completed by Diversified Surveying Services, Inc. on 12-10-01.

Table 2
Soil Analytical Results-Well Installation
Bruce Titus Nissan Subaru
4030 South Tacoma Way
Tacoma, Washington
SECOR PN: 001.01287.001

Sample			Volatile Organic Compounds[1]				
Identification	Date	Depth (ft bgs)	Acetone	TCE	Toluene	Ethylbenzene	Xylenes
MW1-30	11/21/01	30.0	ND	0.007	0.022	ND	0.0025
MW2-40	11/21/01	40.0	ND	0.0067	0.011	ND	ND
MW3-40	11/21/01	40.0	0.015	0.0053	0.074	0.0037	0.0184
MW4-30	11/21/01	30.0	ND	ND	0.042	0.0013	0.0042
MTCA Method A Soil Cleanup Levels			**NA**	**0.03**	**7**	**6**	**9**
MTCA Method B Soil Cleanup Levels			**800**	**90.9**	**16,000**	**800**	**160,000**

Notes:

All data reported in milligrams per kilogram (mg/kg).

[1] = Volatile organic compounds analyzed by EPA Method 8260B. All analytes non-detect except for those presented.

NA = No Method A Cleanup Value Established

* = No Method A cleanup value established, Method B formula value presented

ND = Not detected above laboratory method detection limits

TCE = Trichloroethene or trichloroethylene

MTCA = Model Toxics Control Act

ft bgs = feet below ground surface

Table 3
Groundwater Analytical Results-Well Installation
Bruce Titus Nissan Subaru
4030 South Tacoma Way
Tacoma, Washington
SECOR PN: 001.01287.001

			Volatile Organic Compounds[1]								
Monitoring Well	Date	Depth to water (feet bgs)	(cis) 1,2-Dichloroethene	Chloroform	TCE	Benzene	1,2 Dichloropropane	Bromodichloromethane	Toluene	Ethylbenzene	Xylenes
MW-1	11/21/01	41.01	1.0	0.85	[redacted]	ND	ND	ND	0.35	ND	ND
MW-2	11/21/01	42.41	ND	0.20	[redacted]	ND	[redacted]	ND	ND	ND	ND
MW-3	11/21/01	43.06	2.1	[redacted]	[redacted]	ND	ND	[redacted]	1.1	0.31	2.15
MW-4	11/21/01	42.70	ND	[redacted]	[redacted]	0.35	ND	[redacted]	2.0	0.52	3.38
MTCA Method A Groundwater Cleanup Levels			NA	NA	5	5	NA	NA	1,000	700	1,000
MTCA Method B Groundwater Cleanup Levels			72.0	7.17	3.98	0.795	0.643	0.706	1,600	800	16,000

Notes:
Shaded results indicate a detection above a cleanup level.
All data reported in micrograms per liter (µg/L).
[1] = Volatile organic compounds analyzed by EPA Method 8260B. All analytes non-detect except for those presented.
[2] TCE = Trichloroethene or trichloroethylene
NA = No Method A or B Cleanup Values Established
ND = Not detected above laboratory method detection limits

APPENDIX A
BORING LOGS

WELL/BORING LOCATION MAP

NORTH

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WELL/BORING: MW-1

DATE:	11/20/01 0730 11/20/01 1050	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

DESCRIPTION/LOGGED BY: K. McCARTHY

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION
											AS	0 TO 0.4' Asphalt.
									1–10		FILL	0.4 to 10 feet: SAND with GRAVEL (FILL); olive gray, moist, 60% fine to medium grained sand, 35% subangular to subrounded gravel, some fines (<5%), no odor.
				7/8/8	3.7	MW-1-5'			5–6		FILL	As above:
				7/14/13	1.6	MW-1-10'			10–11		SP	10 to 17 feet: SAND with GRAVEL (SP); brown, moist, 65% medium to coarse grained sand, subangular to subrounded gravel, no odor.
				11/21/23	1.4	MW-1-15'			15–16			As above:
				12/22/30	1.7	MW-1-20'			17–27		SP-SM	17 to 27 feet: SAND (SP-SM); light brown, moist, 90% fine to medium grained sand, 10% silt/clay (fines), no odor.
									25–27			As above:
				31/50	1.2	MW-1-30'			27–30		SP	27 to 34 feet: SAND with GRAVEL (SP); light brown, moist, 90% fine to medium grained sand, 10% subangular to subrounded gravel, no odor.

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-1

DATE:	11/20/01 0730 11/20/01 1050	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

DESCRIPTION/LOGGED BY: K. McCARTHY

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION
									31			
									32			
									33			
									34			
									35		SP	34 to 45 feet: SAND (SP); orange-tan, moist, fine to medium grained sand, trace fines (<5%), no odor.
									36			
									37			
									38			
									39			
				26/50	1.2	MW-1-40'			40			
									41			
									42			
									43			At 43 feet: water encountered.
									44			
									45			
									46			
									47		SP	45-60 feet: SAND (SP); dark brown-orange, wet, fine to coarse grained sand (90%), trace subrounded to subangular gravel, no odor.
									48			
									49			
									50			* Note: Driller noted heaving of the sands in boring sample from 50' may not be represenative of 50' below ground surface soils.
				27/50	1.4	MW-1-50'			51			
									52			
									53			
									54			
									55			
									56			
									57			
									58			
									59			No sample recovery.
									60			BORING TERMINATED AT 60 FEET.

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

SECOR
International Incorporated

WELL/BORING: MW-2

DATE:	11/20/01 1130 11/20/01 1545	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	61'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:				
TIME:				
DATE:				

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION/LOGGED BY: K. McCARTHY
											AS	0 TO 0.4' Asphalt.
									1		SW	0.4 to 13 feet: SAND with GRAVEL (SW); light gray, moist, 60% fine to medium grained sand, 35% subrounded to subangular gravel, 5% fines, no odor.
									2			
									3			
									4			
				14/21/18	1.2	MW-2-5'		X	5			
									6			
									7			
									8			
									9			
				14/24/25	2.1	MW-2-10'		X	10		SW	As above: Except drak gray, trace organics.
									11			
									12			
									13			
									14		SW	13 to 17 feet: SAND with GRAVEL (SW); moist, light gray, 75% fine to medium grained sand, 20% subrounded to subangular gravel, 5% fines, no odor.
				27/15	2.3	MW-2-15'		X	15			
									16			
									17			
									18			
									19			
				14/17/21	1.7	MW-2-20'		X	20		SP	17 to 37 feet: SAND (SP); yellow-orange, moist, 95% fine to medium grained sand, trace fines (<5%), no odor.
									21			
									22			
									23			
									24			
									25			
									26			
									27			
									28			
									29			
				26/50	1.6	MW-2-30'		V	30			

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-2

DATE:	11/20/01 1130 11/20/01 1545	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	61'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

DESCRIPTION/LOGGED BY: K. McCARTHY

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION
									31			
									32			
									33			
									34			
									35		SP	37 to 45 feet: SAND (SP); yellow-orange, moist, 90% medium to coarse grained sand, 5% subrounded to subangular gravel, <5% fines, mno odor.
									36			
									37			
									38			
									39			
				32/50	1.6	MW-2-40'			40			
									41			
									42			
									43			
									44			
									45			
									46			
									47		SP	45 to 60 feet: SAND (SP); light gray, wet, fine to medium grained sand, trace silt, no odor.
									48			
									49			
				21/50	1.9	MW-2-50'			50			
									51			
									52			
									53			
									54			
									55			
									56			
									57			
									58			
									59			
				25/50	1.4	MW-2-60'			60			

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-2

DATE:	11/20/01 1130 11/20/01 1545	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	61'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:				
TIME:				
DATE:				

DESCRIPTION/LOGGED BY: K. McCARTHY

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	
									61		SW	60 to 61 feet: SAND (SW); dark gray (a "salt & pepper" apperance), 95% coarse grained, trace gravel, no odor.
												BORING TERMINATED AT 61 FEET.
									62			
									63			
									64			
									65			
									66			
									67			
									68			
									69			
									70			
									71			
									72			
									73			
									74			
									75			
									76			
									77			
									78			
									79			
									80			
									81			
									82			
									83			
									84			
									85			
									86			
									87			
									88			
									89			
									90			

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

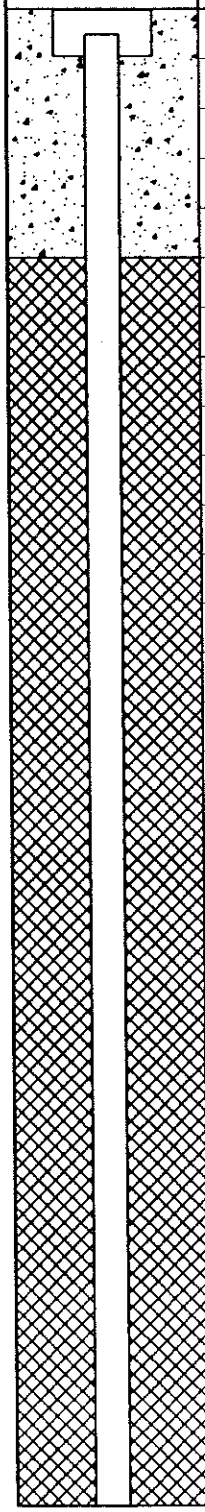
SECOR
International Incorporated

WELL/BORING: MW-3

DATE:	11/21/01 0750 11/21/01 1100	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

DESCRIPTION/LOGGED BY: K. McCARTHY



DEPTH (FEET)	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USGS SYMBOL	DESCRIPTION
										AS	0 TO 0.4' Asphalt.
1–14										SW	0.4 to 14 feet: SAND with GRAVEL (SW); dark gray, moist, 65% fine to coarse grained sand, 30% subangular to subrounded gravel, 5% fines, no odor.
5				23/50	0.7	MW-3-5'					
10				7/17/50	0.6	MW-3-10'				SW	As above; except large diameter gravel (>1"), trace orgainics.
15				32/60	1.1	MW-3-15'				SW	14 to 27 feet: SAND with GRAVEL (SW); light gray, moist, 80% medium to coarse grained sand, 20% subangular to subrounded gravel, trace fines, no odor.
20										SW	No recovery; Large gravel >3" diameter.
27–30				50/6	1.0	MW-3-30'					27 to 60 feet: SAND (SP) orange-brown, moist, fine to medium grained, trace subrounded to subangular gravel, no odor.

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-3

DATE:	11/21/01 0750 11/21/01 1100	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

DESCRIPTION/LOGGED BY: K. McCARTHY

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION
									31			
									32			
									33			
									34			
									35		SP	
									36			
									37			
									38			
									39			
				80	1.7	MW-3-40'			40			As above:
									41			
									42			
									43			
									44			
									45			
									46			
									47		SP	
									48			
									49			
				7/14/18	0.8	MW-3-50'			50			As above:
									51			
									52			
									53			
									54			
									55			
									56			
									57			
									58			
									59			No recovery: (heaving sands).
									60			BORING TERMINATED AT 60 FEET.

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-4

DATE:	11/21/01 1130 11/21/01 1545	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:				
TIME:				
DATE:				

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION/LOGGED BY: K. McCARTHY
											AS	0 TO 0.4' Asphalt.
									1		SP	0.4 to 17 feet: SAND (SP); gray, moist, fine to medium grained sand, 10% subangular to subrounded gravel, no odor.
									2			
									3			
									4			
									5			
				32/50	0.0	MW-4-5'			6			
									7			
									8			
									9			
									10		SP	As above:
				4/21/29	0.0	MW-4-10'			11			
									12			
									13			
									14			
									15			
				29/50	0.0	MW-4-15'			16			
									17		SW	17 to 45 feet: SAND (SW); light brown, moist, 80% fine to coarse grained sand, 20% subangular to subrounded gravel, no odor.
									18			
									19			
									20			
				19/60	0.3	MW-4-20'			21			
									22			
									23			
									24			
									25			
									26			
									27			
									28			
									29			
				39/60	1.2	MW-4-30'			30		SP	SAND (SP) light brown, moist, 80% fine to medium grained sand, 10% fines, 10% subangular to subrounded gravel, no odor.

DWG: 01012871(BL)

WELL/BORING LOCATION MAP

NORTH

SECOR
International Incorporated

WELL/BORING: MW-4

DATE:	11/21/01 1130 11/21/01 11545	DRILLING METHOD:	HOLLOW STEM AUGER
PROJECT #:	001.01287.001	SAMPLE METHOD:	2.5" I.D. SPLIT SPOON
CLIENT:	BRUCE TITUS NISSAN SUBARU	BORING DIAMETER:	9"
LOCATION:	4030 S. TACOMA WAY	BORING DEPTH:	60'
CITY:	TACOMA	WELL CASING:	2" SCH 40 PVC
CO./STATE:	PIERCE/WASHINGTON	WELL SCREEN:	0.010" SLOT
DRILLER:	CASCADE	SAND PACK:	2/12 SILICA

WATER LEVEL:			
TIME:			
DATE:			

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD OVA TEST	SAMPLE NUMBER	RECOVERY	SAMPLE INTERVAL	DEPTH (FEET)	GRAPHIC	USGS SYMBOL	DESCRIPTION/LOGGED BY: K. McCARTHY
									31			
									32			
									33			
									34			
									35			
									36			
									37			
									38			
									39			
				70	1.9	MW-4-40'			40		SP	SAND (SP); light brown, moist, fine to medium grained sand, trace fines, gravel, no odor.
									41			
									42			
		▼							43			
									44			
									45			
	▽								46			
									47		SP	45 to 60 feet: SAND (SP); olive gray ("salt & pepper") wet, medium to coarse grained sand, little or no fines or gravel, no odor.
									48			
									49			
				29/50	2.1	MW-4-50'			50			
									51			
									52			
									53			
									54			
									55			
									56			
									57			
									58			
									59			No recovery: (heaving sands).
									60			BORING TERMINATED AT 60 FEET.

DWG: 01012871(BL)

APPENDIX B
LABORATORY ANALYTICAL REPORTS

OnSite
Environmental Inc.
Analytical Testing and Mobile Laboratory Services

November 29, 2001

Amy Essig Desai
SECOR
P.O. Box 230
Redmond, WA 98073

Re: Analytical Data for Project 001.01287.001
Laboratory Reference No. 0111-171

Dear Amy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 21, 2001.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 1 of 2

Date Extracted:	11-29-01
Date Analyzed:	11-29-01
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	11-171-05
Client ID:	**MW1-30**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0012
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0012
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Acetone	ND		0.0061
Iodomethane	ND		0.0061
Carbon Disulfide	ND		0.0012
Methylene Chloride	ND		0.0061
(trans) 1,2-Dichloroethene	ND		0.0012
Methyl t-Butyl Ether	ND		0.0012
1,1-Dichloroethane	ND		0.0012
Vinyl Acetate	ND		0.0061
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
2-Butanone	ND		0.0061
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
Benzene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	0.0070		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0061
(cis) 1,3-Dichloropropene	ND		0.0012
Methyl Isobutyl Ketone	ND		0.0061
Toluene	0.022		0.0012
(trans) 1,3-Dichloropropene	ND		0.0012
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 2 of 2

Lab ID: 11-171-05
Client ID: MW1-30

Compound	Results	Flags	PQL
2-Hexanone	ND		0.0061
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Ethylbenzene	ND		0.0012
m,p-Xylene	0.0025		0.0024
o-Xylene	ND		0.0012
Styrene	ND		0.0012
Bromoform	ND		0.0012
Isopropylbenzene	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
n-Propylbenzene	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3,5-Trimethylbenzene	ND		0.0012
tert-Butylbenzene	ND		0.0012
1,2,4-Trimethylbenzene	ND		0.0012
sec-Butylbenzene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
p-Isopropyltoluene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
n-Butylbenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0061
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0061
Naphthalene	ND		0.0012
1,2,3-Trichlorobenzene	ND		0.0012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	103	65-125
Toluene, d8	80	77-116
4-Bromofluorobenzene	86	67-133

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 1 of 2

Date Extracted:	11-29-01
Date Analyzed:	11-29-01
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	11-171-13
Client ID:	**MW2-40**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	ND		0.0054
Iodomethane	ND		0.0054
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0054
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0054
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0054
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	0.0067		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0054
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0054
Toluene	0.011		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 2 of 2

Lab ID: 11-171-13
Client ID: MW2-40

Compound	Results	Flags	PQL
2-Hexanone	ND		0.0054
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	ND		0.0011
m,p-Xylene	ND		0.0022
o-Xylene	ND		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0054
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0054
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	81	77-116
4-Bromofluorobenzene	89	67-133

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

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Date Extracted:	11-29-01
Date Analyzed:	11-29-01
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	11-171-20
Client ID:	**MW3-40**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0011
Chloromethane	ND		0.0011
Vinyl Chloride	ND		0.0011
Bromomethane	ND		0.0011
Chloroethane	ND		0.0011
Trichlorofluoromethane	ND		0.0011
1,1-Dichloroethene	ND		0.0011
Acetone	0.015	H	0.0053
Iodomethane	ND		0.0053
Carbon Disulfide	ND		0.0011
Methylene Chloride	ND		0.0053
(trans) 1,2-Dichloroethene	ND		0.0011
Methyl t-Butyl Ether	ND		0.0011
1,1-Dichloroethane	ND		0.0011
Vinyl Acetate	ND		0.0053
2,2-Dichloropropane	ND		0.0011
(cis) 1,2-Dichloroethene	ND		0.0011
2-Butanone	ND		0.0053
Bromochloromethane	ND		0.0011
Chloroform	ND		0.0011
1,1,1-Trichloroethane	ND		0.0011
Carbon Tetrachloride	ND		0.0011
1,1-Dichloropropene	ND		0.0011
Benzene	ND		0.0011
1,2-Dichloroethane	ND		0.0011
Trichloroethene	0.0053		0.0011
1,2-Dichloropropane	ND		0.0011
Dibromomethane	ND		0.0011
Bromodichloromethane	ND		0.0011
2-Chloroethyl Vinyl Ether	ND		0.0053
(cis) 1,3-Dichloropropene	ND		0.0011
Methyl Isobutyl Ketone	ND		0.0053
Toluene	0.074		0.0011
(trans) 1,3-Dichloropropene	ND		0.0011
1,1,2-Trichloroethane	ND		0.0011
Tetrachloroethene	ND		0.0011
1,3-Dichloropropane	ND		0.0011

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Lab ID: 11-171-20
Client ID: MW3-40

Compound	Results	Flags	PQL
2-Hexanone	ND		0.0053
Dibromochloromethane	ND		0.0011
1,2-Dibromoethane	ND		0.0011
Chlorobenzene	ND		0.0011
1,1,1,2-Tetrachloroethane	ND		0.0011
Ethylbenzene	0.0037		0.0011
m,p-Xylene	0.015		0.0021
o-Xylene	0.0034		0.0011
Styrene	ND		0.0011
Bromoform	ND		0.0011
Isopropylbenzene	ND		0.0011
Bromobenzene	ND		0.0011
1,1,2,2-Tetrachloroethane	ND		0.0011
1,2,3-Trichloropropane	ND		0.0011
n-Propylbenzene	ND		0.0011
2-Chlorotoluene	ND		0.0011
4-Chlorotoluene	ND		0.0011
1,3,5-Trimethylbenzene	ND		0.0011
tert-Butylbenzene	ND		0.0011
1,2,4-Trimethylbenzene	ND		0.0011
sec-Butylbenzene	ND		0.0011
1,3-Dichlorobenzene	ND		0.0011
p-Isopropyltoluene	ND		0.0011
1,4-Dichlorobenzene	ND		0.0011
1,2-Dichlorobenzene	ND		0.0011
n-Butylbenzene	ND		0.0011
1,2-Dibromo-3-chloropropane	ND		0.0053
1,2,4-Trichlorobenzene	ND		0.0011
Hexachlorobutadiene	ND		0.0053
Naphthalene	ND		0.0011
1,2,3-Trichlorobenzene	ND		0.0011

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	65-125
Toluene, d8	83	77-116
4-Bromofluorobenzene	87	67-133

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Date Extracted:	11-29-01
Date Analyzed:	11-29-01
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	11-171-26
Client ID:	**MW4-30**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0012
Chloromethane	ND		0.0012
Vinyl Chloride	ND		0.0012
Bromomethane	ND		0.0012
Chloroethane	ND		0.0012
Trichlorofluoromethane	ND		0.0012
1,1-Dichloroethene	ND		0.0012
Acetone	ND		0.0058
Iodomethane	ND		0.0058
Carbon Disulfide	ND		0.0012
Methylene Chloride	ND		0.0058
(trans) 1,2-Dichloroethene	ND		0.0012
Methyl t-Butyl Ether	ND		0.0012
1,1-Dichloroethane	ND		0.0012
Vinyl Acetate	ND		0.0058
2,2-Dichloropropane	ND		0.0012
(cis) 1,2-Dichloroethene	ND		0.0012
2-Butanone	ND		0.0058
Bromochloromethane	ND		0.0012
Chloroform	ND		0.0012
1,1,1-Trichloroethane	ND		0.0012
Carbon Tetrachloride	ND		0.0012
1,1-Dichloropropene	ND		0.0012
Benzene	ND		0.0012
1,2-Dichloroethane	ND		0.0012
Trichloroethene	ND		0.0012
1,2-Dichloropropane	ND		0.0012
Dibromomethane	ND		0.0012
Bromodichloromethane	ND		0.0012
2-Chloroethyl Vinyl Ether	ND		0.0058
(cis) 1,3-Dichloropropene	ND		0.0012
Methyl Isobutyl Ketone	ND		0.0058
Toluene	0.042		0.0012
(trans) 1,3-Dichloropropene	ND		0.0012
1,1,2-Trichloroethane	ND		0.0012
Tetrachloroethene	ND		0.0012
1,3-Dichloropropane	ND		0.0012

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Lab ID: 11-171-26
Client ID: MW4-30

Compound	Results	Flags	PQL
2-Hexanone	ND		0.0058
Dibromochloromethane	ND		0.0012
1,2-Dibromoethane	ND		0.0012
Chlorobenzene	ND		0.0012
1,1,1,2-Tetrachloroethane	ND		0.0012
Ethylbenzene	0.0013		0.0012
m,p-Xylene	0.0052		0.0023
o-Xylene	ND		0.0012
Styrene	ND		0.0012
Bromoform	ND		0.0012
Isopropylbenzene	ND		0.0012
Bromobenzene	ND		0.0012
1,1,2,2-Tetrachloroethane	ND		0.0012
1,2,3-Trichloropropane	ND		0.0012
n-Propylbenzene	ND		0.0012
2-Chlorotoluene	ND		0.0012
4-Chlorotoluene	ND		0.0012
1,3,5-Trimethylbenzene	ND		0.0012
tert-Butylbenzene	ND		0.0012
1,2,4-Trimethylbenzene	ND		0.0012
sec-Butylbenzene	ND		0.0012
1,3-Dichlorobenzene	ND		0.0012
p-Isopropyltoluene	ND		0.0012
1,4-Dichlorobenzene	ND		0.0012
1,2-Dichlorobenzene	ND		0.0012
n-Butylbenzene	ND		0.0012
1,2-Dibromo-3-chloropropane	ND		0.0058
1,2,4-Trichlorobenzene	ND		0.0012
Hexachlorobutadiene	ND		0.0058
Naphthalene	ND		0.0012
1,2,3-Trichlorobenzene	ND		0.0012

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	105	65-125
Toluene, d8	83	77-116
4-Bromofluorobenzene	83	67-133

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
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METHOD BLANK QUALITY CONTROL
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Date Extracted: 11-29-01
Date Analyzed: 11-29-01

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB1129S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010

Date of Report: November 29, 2001
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METHOD BLANK QUALITY CONTROL
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Lab ID: MB1129S1

Compound	Results	Flags	PQL
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	97	65-125
Toluene, d8	81	77-116
4-Bromofluorobenzene	90	67-133

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
MS/MSD QUALITY CONTROL

Date Extracted: 11-29-01
Date Analyzed: 11-29-01

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 11-171-05

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	0.0500	0.0331	66	0.0301	60	9.3	
Benzene	0.0500	0.0433	87	0.0404	81	6.9	
Trichloroethene	0.0500	0.0476	95	0.0451	90	5.2	
Toluene	0.0500	0.0401	80	0.0394	79	1.6	
Chlorobenzene	0.0500	0.0411	82	0.0397	79	3.3	

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Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

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Date Extracted: 11-28-01
Date Analyzed: 11-28-01

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-171-28
Client ID: MW-1-W

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	1.0		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	0.85		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	130		10
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	0.35		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

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Lab ID: 11-171-28
Client ID: MW-1-W

Compound	Results	Flags	PQL
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	111	71-133
Toluene, d8	110	80-151
4-Bromofluorobenzene	109	75-139

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Date Extracted:	11-28-01
Date Analyzed:	11-28-01
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	11-171-29
Client ID:	**MW-2-W**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	0.20		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	33		0.20
1,2-Dichloropropane	0.71		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

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Lab ID: 11-171-29
Client ID: MW-2-W

Compound	Results	Flags	PQL
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	109	71-133
Toluene, d8	108	80-151
4-Bromofluorobenzene	104	75-139

Date of Report: November 29, 2001
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Date Extracted:	11-28-01
Date Analyzed:	11-28-01
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	11-171-30
Client ID:	**MW-3-W**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	2.1		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	8.2		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	62		2.0
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	0.77		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	1.1		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 2 of 2

Lab ID: 11-171-30
Client ID: MW-3-W

Compound	Results	Flags	PQL
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	0.31		0.20
m,p-Xylene	1.6		0.40
o-Xylene	0.55		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	111	71-133
Toluene, d8	110	80-151
4-Bromofluorobenzene	108	75-139

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 1 of 2

Date Extracted:	11-28-01
Date Analyzed:	11-28-01
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	11-171-31
Client ID:	**MW-4-W**

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	ND		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	9.2		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	0.35		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	11		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	0.95		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	2.0		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
Page 2 of 2

Lab ID: 11-171-31
Client ID: MW-4-W

Compound	Results	Flags	PQL
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	0.52		0.20
m,p-Xylene	2.4		0.40
o-Xylene	0.98		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	111	71-133
Toluene, d8	109	80-151
4-Bromofluorobenzene	105	75-139

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
page 1 of 2

Date Extracted:	11-28-01
Date Analyzed:	11-28-01
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	MB1128W1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.20
Chloromethane	ND		0.20
Vinyl Chloride	ND		0.20
Bromomethane	ND		1.0
Chloroethane	ND		0.20
Trichlorofluoromethane	ND		0.20
1,1-Dichloroethene	ND		0.20
Acetone	ND		5.0
Iodomethane	ND		1.0
Carbon Disulfide	ND		0.20
Methylene Chloride	2.8		1.0
(trans) 1,2-Dichloroethene	ND		0.20
Methyl t-Butyl Ether	ND		0.20
1,1-Dichloroethane	ND		0.20
Vinyl Acetate	ND		1.0
2,2-Dichloropropane	ND		0.20
(cis) 1,2-Dichloroethene	ND		0.20
2-Butanone	ND		5.0
Bromochloromethane	ND		0.20
Chloroform	ND		0.20
1,1,1-Trichloroethane	ND		0.20
Carbon Tetrachloride	ND		0.20
1,1-Dichloropropene	ND		0.20
Benzene	ND		0.20
1,2-Dichloroethane	ND		0.20
Trichloroethene	ND		0.20
1,2-Dichloropropane	ND		0.20
Dibromomethane	ND		0.20
Bromodichloromethane	ND		0.20
2-Chloroethyl Vinyl Ether	ND		1.0
(cis) 1,3-Dichloropropene	ND		0.20
Methyl Isobutyl Ketone	ND		2.0
Toluene	ND		0.20
(trans) 1,3-Dichloropropene	ND		0.20
1,1,2-Trichloroethane	ND		0.20
Tetrachloroethene	ND		0.20
1,3-Dichloropropane	ND		0.20

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
page 2 of 2

Lab ID: MB1128W1

Compound	Results	Flags	PQL
2-Hexanone	ND		2.0
Dibromochloromethane	ND		0.20
1,2-Dibromoethane	ND		0.20
Chlorobenzene	ND		0.20
1,1,1,2-Tetrachloroethane	ND		0.20
Ethylbenzene	ND		0.20
m,p-Xylene	ND		0.40
o-Xylene	ND		0.20
Styrene	ND		0.20
Bromoform	ND		1.0
Isopropylbenzene	ND		0.20
Bromobenzene	ND		0.20
1,1,2,2-Tetrachloroethane	ND		0.20
1,2,3-Trichloropropane	ND		0.20
n-Propylbenzene	ND		0.20
2-Chlorotoluene	ND		0.20
4-Chlorotoluene	ND		0.20
1,3,5-Trimethylbenzene	ND		0.20
tert-Butylbenzene	ND		0.20
1,2,4-Trimethylbenzene	ND		0.20
sec-Butylbenzene	ND		0.20
1,3-Dichlorobenzene	ND		0.20
p-Isopropyltoluene	ND		0.20
1,4-Dichlorobenzene	ND		0.20
1,2-Dichlorobenzene	ND		0.20
n-Butylbenzene	ND		0.20
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		0.20
Hexachlorobutadiene	ND		0.20
Naphthalene	ND		1.0
1,2,3-Trichlorobenzene	ND		0.20

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	112	71-133
Toluene, d8	108	80-151
4-Bromofluorobenzene	105	75-139

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

VOLATILES by EPA 8260B
SB/SBD QUALITY CONTROL

Date Extracted: 11-28-01
Date Analyzed: 11-28-01

Matrix: Water
Units: ug/L (ppb)

Lab ID: SB1128W1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
1,1-Dichloroethene	10.0	10.2	102	10.4	104	1.8	
Benzene	10.0	10.1	101	10.4	104	2.3	
Trichloroethene	10.0	10.3	103	10.7	107	4.2	
Toluene	10.0	10.4	104	10.7	107	3.2	
Chlorobenzene	10.0	8.93	89	9.31	93	4.1	

Date of Report: November 29, 2001
Samples Submitted: November 21, 2001
Lab Traveler: 11-171
Project: 001.01287.001

% MOISTURE

Date Analyzed: 11-27-01

Client ID	Lab ID	% Moisture
MW1-30	11-171-05	18
MW2-40	11-171-13	8.0
MW3-50	11-171-20	5.0
MW4-30	11-171-26	14

OnSite Environmental Inc.

DATA QUALIFIERS AND ABBREVIATIONS

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range, and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
MRL - Method Reporting Limit
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
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Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager: DB

Laboratory No. 11-171

Company: SECOR
Project No.: 001.0287.001
Project Name: Bruce Titus
Project Manager: Amy Essig Desai

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture
1	MW1-5	11-20-01	8:00	Soil	1																X
2	MW1-10		8:20																		X
3	MW1-15		8:50																		
4	MW1-20		9:00																		
5	MW1-30		9:20						X												
6	MW1-40		9:30																		
7	MW1-50		9:40																		
8	MW2-5		11:50																		
9	MW2-10		12:10																		
10	MW2-15		12:30																		
11	MW2-20		12:40																		
12	MW2-30		12:50																		

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	11-21-01		11-21-01
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Chain of Custody

Company: SECOR
Project No.: 001.01287.001
Project Name: Bruce Titus
Project Manager: Amy Essig Desai

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ ______ (other)

Project Manager: DB
Laboratory No. 11-171

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
13	MW2-40	11-20-01	13:00	Soil	1				X																X
14	MW2-50		13:20																						
15	MW2-60		13:40																						
16	MW3-5	11-21-01	8:10																						
17	MW3-10		8:20																						
18	MW3-15		8:30																						
19	MW3-30		8:50																						
20	MW3-40		9:05						X																
21	MW3-50		9:15																						
22	MW4-5		12:10																						
23	MW4-10		12:20																						
24	MW4-15		12:30																						

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Company: SECOR

Project No.: 001. 01287.001

Project Name: Bruce Titus

Project Manager: Amy Essig Desai

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Day ☐ 3 Day
- ☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ ________ (other)

Project Manager: DB

Laboratory No. 11 - 171

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH						% Moisture
25	MW4-20	11-21-01	12:40	Soil	1																					X
26	MW4-30	↓	12:50	↓	1				X																	↓
27	MW4-40	↓	13:00	↓	1																					↓
28	MW1-W	↓		W	2				X																	
29	MW2-W	↓		↓	2				X																	
30	MW3-W	↓		↓	2				X																	
31	MW4-W	↓		↓	2				X																	

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FIRM	TIME	FIRM	TIME
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COMMENTS:

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Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard
(Hydrocarbon analyses: 5 days, All other analyses: 7 days)

☐ _____ (other)

Project Manager: DB

Laboratory No. 11-171

Company: SECOR

Project No.: 001.012.001

Project Name: Bruce Titus

Project Manager: Amy Ess / Desa.

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture
25	MW4-20	11-21-01	12:46	Soil	1																X
26	MW4-30	"	12:50	"	1				X												"
27	MW4-40	"	13:00	"	1																"
28	MW1-W	"		W	2				X												
29	MW2-W	"		"	2				X												
30	MW3-W	"		"	2				X												
31	MW4-W	"		"	2				X												

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Kevin McClark	11-21-01	Kathryn Mspe	11-21-01
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Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager: DJB

Laboratory No. 11-171

Company: SECOR
Project No.: 001.01287.001
Project Name: Bruce Titus
Project Manager: Amy Essig Dean

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
13	MW2-40	11-20-01	13:00	Soil	1				X																X
14	MW2-50		13:20																						
15	MW2-60		13:40																						
16	MW3-5	11-21-01	8:10																						
17	MW3-10		8:20																						
18	MW3-15		8:30																						
19	MW3-30		8:50																						
20	MW3-40		9:05						X																
21	MW3-50		9:15																						
22	MW4-5		12:10																						
23	MW4-10		12:20																						
24	MW4-15		12:30																						

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[signature]	11-21-01	[signature]	11-21-01
FIRM SECOR	TIME 16:45	FIRM OSE	TIME 16:45
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FIRM	TIME	FIRM	TIME
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COMMENTS:

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Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard
(Hydrocarbon analyses: 5 days, All other analyses: 7 days)

☐ _____ (other)

Project Manager: DB

Laboratory No. 11-171

Company: SECOR

Project No.: 001 0297 501

Project Name: Bruce Titus

Project Manager: Amy Essig Desai

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture
1	MW1-5	11-20-01	8:00	Soil	1																X
2	MW1-1		8:20																		X
3	MW1-1		8:50																		
4	MW1-7		9:00																		
5	MW1-3		9:20						X												
6	MW1-4		9:30																		
7	MW1-5		9:40																		
8	MW2-5		11:50																		
9	MW2-10		12:10																		
10	MW2-15		12:30																		
11	MW2-20		12:40																		
12	MW2-30		12:50																		

RELINQUISHED BY	DATE	RECEIVED BY	DATE
[signature]	11-21-01	[signature]	11-21-01
FIRM SECOR	TIME 14:45	FIRM OSE	TIME 16:45
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:

Chromatographs with final report ☐

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