Phase II Environmental Site Assessment

Proposed Residential Development
South of CSAH 159 and East of Fletcher Lane
Rogers, Minnesota

Prepared for

Helius Investments, LLC.
Hassan Mainstreet, LLC. and
Värde Partners, LLP.

Professional Certification:
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Geologist under the laws of the State of Minnesota.

Richard E. Hansen

Richard E. Hansen, PG
Senior Scientist
License Number: 30658
April 12, 2006

MINNESOTA
RICHARD E.
HANSEN
30658
LICENSED PROFESSIONAL GEOLOGIST

Project SP-06-01257

Braun Intertec Corporation

BRAUN
INTERTEC

Braun Intertec Corporation
1826 Buerkle Road
Saint Paul, MN 55110

Phone: 651.487.3245
Fax: 651.487.1812
Web: braunintertec.com

April 12, 2006

Project SP-06-01257

Mr. Michael Lynskey
Helius Investments, LLC.
118 South Main Street
Stillwater, MN 55008

Re: Phase II Environmental Site Assessment
Proposed Residential Development
South of CSAH 159 and East of Fletcher Lane
Rogers, Minnesota

Dear Mr. Lynskey

Enclosed is the Phase II environmental site assessment (Phase II ESA) for the above referenced site. The Phase II ESA was conducted to evaluate the area of fill identified by previous investigations completed by others.

We appreciate the opportunity to provide our services to you. If you have questions regarding the enclosed Phase II ESA or the project in general, please call Rich Hansen at 651.487.7013 or Jim DeLuca at 651.487.7005.

Sincerely,

BRAUN INTERTEC CORPORATION

Richard E. Hansen, PG
Senior Scientist

James L. DeLuca, PG
Associate Principal

Enclosure: Phase II Environmental Site Assessment

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Phase II Environmental Site Assessment
Proposed Residential Development
South of CSAH 159 and East of Fletcher Lane
Rogers, Minnesota

1.0 Introduction

Helius Investments, LLC. (Helius) retained Braun Intertec Corporation (Braun Intertec) to conduct a Phase II environmental site assessment (Phase II ESA) of a proposed residential development, located south of CSAH 159 and east of Fletcher Lane in Rogers, Minnesota (site). The general objective of the Phase II ESA was to evaluate the recognized environmental condition identified in a Phase I Environmental Site Assessment (Phase I ESA) prepared by Braun Intertec in April 2006.

This report describes the purpose of the investigation, scope of work, field-screening results, laboratory analytical results, and conclusions.

2.0 Property Location/Description

2.1 Location

The site is located in Hassan Township, Hennepin County, Minnesota. The site is currently developed as a residence and associated outbuildings located on approximately 21 acres.

The Site is bordered on the north by agricultural land with CSAH 159 (also known as Territorial Road) and agricultural land beyond; on the east by a residence and agricultural land; on the south by agricultural land; and on the west by Fletcher Lane (also known as CSAH 116) and residences beyond. A survey map provided by Helius indicates an address of 11900 Fletcher Lane. A site location map is included as Figure 1.

2.2 Geographic and Geologic Setting

According to the United States Geological Survey 7.5-minute topographic map series, Rogers, Minnesota quadrangle, the elevation at the site is approximately 950 feet above mean sea level (± 10 feet). The site is largely flat.

The Geologic Atlas for Hennepin County shows the surficial geology of the area to be glacial till of Late Wisconsinan age consisting of loamy till and clayey till. Bedrock is shown to be between 201 and 250 feet below ground surface in the area of the site. The uppermost bedrock unit in the vicinity of the site is the St. Lawrence and Franconia Formations (Balaban, 1989).

2.3 Current and Past Use

The site is currently used as a residential and light agricultural property.

2.4 Previous Investigation

Braun Intertec recently completed a Phase I ESA (Braun Intertec, 2006) at the site. The Phase I ESA concluded that:

"This assessment has revealed no indications of recognized environmental conditions in connection with the Site, except for the following:

- Fill soils were imported to the Site.

Due to the unknown nature of the fill soils, the potential exists that materials are present in the fill soils that require management as solid or hazardous waste and may impact future development at the Site. Examples of possible fill contaminants included solid or hazardous wastes, petroleum products, and building demolition debris such as asbestos-containing material (ACM) light ballasts, thermostats or electrical switches.

3.0 Purpose

The purpose of the Phase II ESA is to evaluate the area of fill in the southern portion of the site for indications of a release(s) of hazardous substances and for non-soil fill material.

4.0 Investigative Procedures

4.1 Soil Test Excavation

Seven test pits were excavated as part of this investigation. Prior to the start of the Phase II ESA, the test pit locations were staked and public utilities were cleared.

4.1.1 Purpose and Location

The test pits were excavated to evaluate the site fill material for indications of the presence of solid waste and chemical contamination in the fill. The test pits were performed in the area previously identified (by others) as consisting of fill material. The test pit locations are shown on Figure 2.

4.1.2 Size

The test pits excavations were approximately 3.5 feet wide and ranged from 10 to 50 feet long and from 11 to 14 feet deep.

4.1.3 Soil Classification and Monitoring

Soil samples were retrieved from the test pit excavation and examined for unusual staining, odors and other apparent signs of contamination. In addition, the soil samples were screened for the presence of total organic vapors using a PID in accordance with Braun Intertec SOP No. 2701. The PID was equipped with a 10.2-eV lamp and calibrated at least daily to an isobutylene standard. The PID was used to test fresh surfaces of soil retrieved from the sampler and to perform a headspace method of analyses, as recommended by the Minnesota Pollution Control Agency (MPCA) in "Soil Sample Collection and Analysis Procedures," MPCA Tanks and Emergency Response Section Fact Sheet #4-04 (April 2005). The PID was operated in accordance with Braun Intertec SOP No. 9003 (see Appendix A).

4.1.4 Chemical Analysis

Soil samples for chemical analyses were collected from test pits TP-3 (2' and 4') and TP-4 (8'). Materials of concern were not encountered in the remaining test pits, and thus no samples were collected for laboratory analysis. Soil samples were collected, documented and submitted for analysis in accordance with Braun Intertec SOPs 1405, 3200 and 8002, respectively (see Appendix A).

5.0 Phase II ESA Results

5.1 Subsurface Conditions

Six of the seven of the test pits performed at the site encountered fill material. Test pit TP-1 was excavated in native material to the north of the fill material. In general, fill soils were encountered to depths ranging from 4 feet below ground surface (bgs) to greater than 14 feet bgs (the excavation limit of the backhoe). TP-3 encountered a log at approximately 2 feet bgs, immediately beneath a discolored layer of soil. At 4 feet bgs, more discolored soil and an empty one-gallon plastic oil container was encountered. TP-4 encountered discolored soil at 8 feet bgs along with a log, some twigs, a small amount of wood shavings and a 1.5-foot long piece of rebar between 8 and 11 feet bgs. TP-5 encountered one small piece of concrete at approximately 10 feet bgs. TP-6 encountered some logs and branches to 6 feet bgs, and one small piece of dimensional lumber and a metal fence post at 6 feet bgs. Water was noted as entering this test pit at a depth of approximately 6 feet bgs. TP-7 encountered a 1-foot long piece of dimensional lumber between 6 and 9 feet bgs.

5.2. Organic Vapor Screening Results

No PID readings were recorded in soil samples collected from the test pits, with the exception of the samples from TP-3 (2' and 4' bgs) and TP-4 (8' bgs). In these samples, PID readings ranging from 2 to 4 parts per million (ppm) were recorded.

5.3. Soil Analytical Testing Results

Three soil samples were collected from the test pits for chemical analysis. The samples were collected from the intervals of elevated PID readings discussed in Section 5.2, above. Soil samples TP-3 (2') and TP-4 (8') were analyzed for volatile organic compounds (VOCs). Soil sample TP-3 (4') was analyzed for VOCs, diesel range organics (DRO) and the eight Resource Conservation and Recovery Act (8 RCRA) metals. None of the targeted parameters were detected above the method reporting limit with the exception of five metals in sample TP-3 (4'): arsenic (4.6 mg/kg), barium (89 mg/kg), chromium (13 mg/kg), lead (5.8 mg/kg) and mercury (0.024 mg/kg). None of these results exceeded their respective MPCA Tier 2 Residential Soil Reference Value (SRV) or the Tier 1 Soil Leaching Value (SLV).

Laboratory analytical reports and chain-of-custody forms are included in Appendix B.

6.0 Conclusions

Based upon the Phase II ESA results, no contaminated soils were identified (contaminated soils are defined as soils with contaminants that exceed MPCA Tier 2 Residential SRVs or Tier 1 SLVs, or with DRO or GRO concentrations that exceed 100 ppm within the top 6 feet of soil), however, indications of mixed solid waste are present in the fill.

No groundwater was encountered at the site to a depth of 14 feet bgs, with the exception of what appeared to be perched water entering test pit TP-6 at approximately 6 feet bgs.

7.0 Recommendations

Based on the results of the Phase II ESA and the proposed plans for the site, Braun Intertec recommends no additional investigative work at the site. No soil impacts were noted and soil sampling analytical results indicated no impacted soil above the SRVs or SLVs. If development is planned in the fill area and the fill is excavated, the mixed solid waste will require proper management and disposal.

8.0 Assessment Limitations

The analyses and conclusions submitted in this report are based on our field observations during the completion of test pits and soil borings at the site and the results of laboratory chemical analyses of groundwater samples collected from the soil borings completed for this project.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession practicing in the same location. No other warranty is made or intended.

9.0 References

Balaban, N.H., Editor; Geologic Atlas - Hennepin County, Minnesota: University of Minnesota - Minnesota Geological Survey, County Atlas Series, Atlas C-4, 1989.

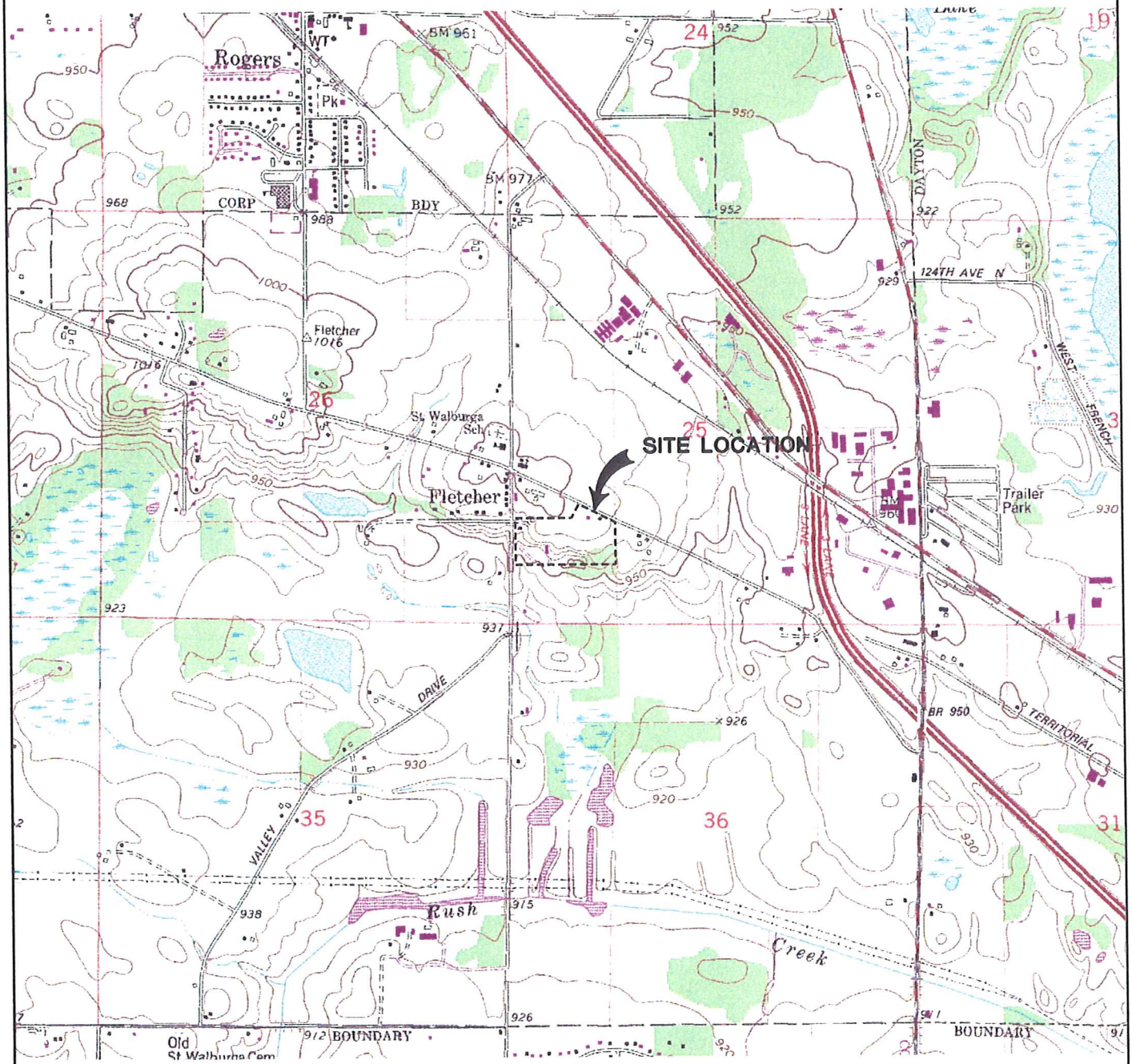
Braun Intertec, 2006. Phase I Environmental Site Assessment, Proposed Residential Development, South of CSAH 159 and East of Fletcher Lane, Rogers, Minnesota, Braun Intertec Corporation, April 12, 2006.

Figures

ROGERS QUADRANGLE

MINNESOTA

7.5 MINUTE SERIES (TOPOGRAPHIC)



QUADRANGLE LOCATION

SCALE 1:24000

1 ½ 0 ½ 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

BRAUN INTERTEC

SITE LOCATION MAP
PHASE II ENVIRONMENTAL SITE ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
SOUTH OF CSAH 159 & EAST OF FLETCHER LANE – ROGERS, MN

INT	REVISION	SHEET
DRAWN BY: BJB	4-11-06	
APP'D BY: REH	4-11-06	OF
JOB No. SP0601257		
DWG. No. SP0601257A		FIGURE NO.
SCALE 1: 24,000		1

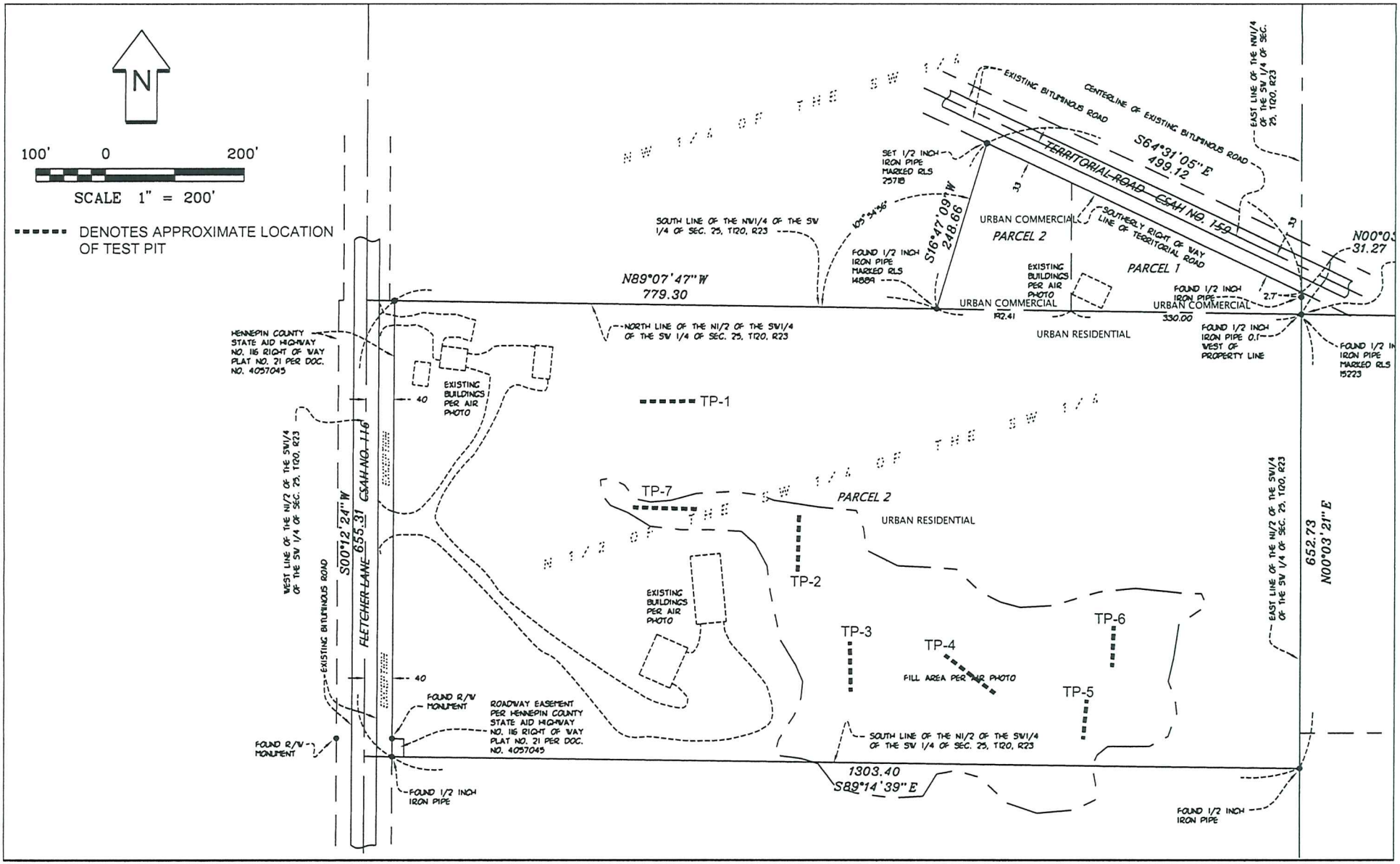


FIGURE NO. 2	INT	DATE	
	DRAWN BY: BJB	4-11-06	
	APP'D BY: REH	4-11-06	
	JOB NO. SP0601257		
	DWG. NO. SP0601257	SHEET	OF
	SCALE 1" = 200'		

TEST PIT LOCATION MAP
PHASE II ENVIRONMENTAL SITE ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
SOUTH OF CSAH 159 & EAST OF FLETCHER LANE – ROGERS, MINNESOTA

BRAUN INTERTEC

Appendix A

Standard Operating Procedures

Standard Operating Procedures
No. 2701

Title: Screening Soils for Contamination

Purpose: This SOP is designed to provide general guidelines for screening soil samples for possible volatile organic contamination.

Necessary Equipment:

Portable Organic Vapor Detector

Procedures:

1. Don appropriate PPE as prescribed by the Health and Safety Plan.

2. Refer to the manufacturer's operation manual for instructions on operating the organic vapor detector (see SOP No. 9003).

3. Calibrate the organic vapor detector according to the manufacturer's instructions. Record calibration information in the Field Notebook.

4. Scan freshly exposed soil (from the split spoon, auger spoils pile or excavating equipment) with the organic vapor detector, taking care to keep the instrument probe far enough from the sample to avoid intake of soil particles and moisture.

5. Record the highest meter response in the Field Notebook. The maximum response should occur between two and five seconds.

6. Visually examine the soil for staining or sheens. Note observations in the Field Notebook.

7. Do not intentionally smell the soil for odors but do note unintentional olfactory evidence of contamination in the Field Notebook.

Standard Operating Procedures
No. 9003

Title: Use and calibration of the OVM/DATALOGGER

Purpose: This SOP is designed to provide guidelines for the use and calibration of the OVM/DATALOGGER.

Necessary Equipment:

OVM
Operations Manual
Calibration Gas

Procedures:

Calibration:

1. Refer to the manufacturer's operation manual for instructions in calibrating and operating the organic vapor monitor (OVM). Don appropriate PPE, as prescribed in the Health and Safety Plan.

2. Turn the unit on by pressing the "ON/OFF" pad. If the lamp is lit, the LED will display PPM on the bottom line and the maximum reading on the top line.

3. Press the "MODE/STORE" pad. The LED will display LOG THIS VALUE?.

4. Press the "-/CRSR" pad. The LED will display the main menu, which reads:
   R/COMM -/PARAM
   +/ACCESS S/CLOCK

5. Press the "-/CRSR" pad. The LED will display on the top line CONC.METER, and the bottom line will show RESET TO CHG. The bottom line will alternate every two seconds with MAX HOLD.

6. Press the "-/CRSR" pad, and the LED will display FREESPACE with a number amount.

7. Press the "-/CRSR" pad, and the LED will display RESET TO CALIBRATE.

8. Press the "RESET" pad. The LED will display RESTORE BACKUP + = YES. The previous calibration information may be restored by pressing the "+/INC" pad. The OVM will then return to the previous screen. If the backup is not desired, press the "-/INC" pad, and the calibration routine will continue. The LED will display ZERO GAS RESET WHEN READY.

9. Press "RESET" pad. The LED will display METER ZEROING.

10. Once the meter has completed zeroing, the LED will display CALIBRATE GAS RESET WHEN READY. Connect calibration gas to OVM with tubing and turn on gas cylinder. Press the "RESET" pad. The unit will calibrate. When finished, press "MODE/STORE" pad to return display to ppm readings.

OPERATIONS

1. Calibrate unit as outlined by manufacturer's operations manual.

2. Prepare samples to be field screened. If performing headspace analysis, prepare samples according to SOP No. 2702.

3. Insert nozzle into bag or along sample to be screened without inserting into soil or moisture.

4. Read values from LED display. To clear LED display, press the "RESET" pad.

5. To turn the unit off, press the "ON/OFF" pad.

Standard Operating Procedures
No. 1405

Title: Soil Sampling for gasoline range organics (GRO), diesel range organics (DRO), volatile organic compounds (VOC), petroleum volatile organic compounds (PVOC), and benzene, ethylbenzene, toluene, and xylenes (BETX)

Purpose: This SOP provides guidelines for the collection of soil samples to be chemically analyzed for GRO, DRO, VOC, PVOC, and BETX.

Necessary Equipment:

The laboratory that will be conducting the analysis must supply bottles. Sample bottles should not be stored for long periods of time prior to use, especially in vehicles.

- 60 ml pre-weighed amber glass bottles, laboratory preserved with methanol for VOC, GRO, BTEX, and PVOC.
- 60ml pre-weighed unpreserved amber glass bottles for DRO
- 40 ml unpreserved plastic snap-top tube will be provided for total solids.
- Soil scale
- Disposable gloves
- Cooler and ice
- Field notebook

Procedures:

1. Don appropriate PPE, as prescribed by the Health and Safety Plan. Caution - bottles with preservatives contain flammable methanol.

2. Place 20 to 35 grams of soil in sample bottle for GRO and/or VOCs/PVOCs being careful not to spill methanol. Samples should maintain a 1:1 ratio of milliliters (ml) of methanol to grams of soil sample. For total solids, pack plastic snap-top tube full with soil.

3. Place 20 to 35 grams of soil in sample bottle for DRO. For total solids, pack plastic snap-top tube full with soil.

4. Remove any soil particles from threads of sample bottle so cap will seal tightly.

5. Place sample bottle in cooler and store at 4°C.

6. Place an unused 60 ml pre-weighed amber bottle preserved with methanol in cooler and submit with VOC samples for QA/QC purposes. Include on chain-of-custody as "MeOH Blank."

7. Transport to laboratory under refrigerated conditions (in cooler on ice) using proper chain-of-custody procedures.

Standard Operating Procedures
No. 3200

Title: Chain of Custody

Purpose: This SOP is designed to provide guidelines for proper chain-of-custody procedures for handling samples to be submitted for chemical analysis.

Necessary Equipment:

Chain-of-Custody Record (laboratory supplied)
Custody Tape or Seals

Procedures:

1. This procedure governs the handling of all chemical samples from the time of sampling to the time of submittal to the analytical laboratory. (Chain-of-custody procedures will be continued by the laboratory. See the Braun Intertec Laboratory QA/QC Plan for details.)

2. All samples will be accompanied by a chain-of-custody record from the time of sampling through sample analysis. The original chain-of-custody record will be attached to the final laboratory report.

3. The majority of the chain-of-custody form will be filled out by the individual conducting the sampling. This includes site identification, project number, sample identification, sample matrix (e.g., soil), collection date and time, name of project manager, name of sampler, analytical parameters and any pertinent notes.

4. When transferring samples, the individuals relinquishing and receiving will sign, date, and note the time on the chain-of-custody record. There should be no time gap between the relinquishing and receiving of samples.

5. When the samples will not be within eyesight of the individual currently having custody, they should placed in a locked room or vehicle.

6. If samples are to be shipped to the laboratory, the chain-of-custody record should be placed in a waterproof bag in the cooler and custody tape applied to seal the cooler. The shipping receipt should be retained and kept with the chain-of-custody record.

Standard Operating Procedures
No. 8002

Title: Packaging and Shipping of Soil and Water Samples

Purpose: This SOP is designed to provide guidelines for packaging and shipping of soil and groundwater samples for delivery to a licensed laboratory for analytical testing.

Necessary Equipment:

Samples
Ice Chest and Ice
Chain-of-Custody Form
Custody Seal
Sealable Plastic Bags

Procedures:

1. Place the environmental sample containers in individual plastic bags, place in shipping foam, as received, and chill on ice prior to transport to the laboratory.

2. Fill the ice chest with ice in plastic bags or a comparable substitute to maintain a constant temperature of 4° Celsius. Place packing material in the ice chest to fill all voids.

3. Obtain a chain-of-custody form and fill out all appropriate areas, including: analytical laboratory address, type of analysis, number and type of samples, turn-around time, etc.

4. The generator is to sign the chain of custody as the "Relinquisher;" the laboratory representative is to sign as the "Receiver."

5. Retain one copy of the completed chain-of-custody. Place the other two copies in a plastic bag, and place the bag inside the ice chest. The chain-of-custody should list only those samples contained in the particular ice chest.

6. Seal the ice chest with a custody seal and, additionally, secure the ice chest with strapping tape. Send by overnight shipping service to laboratory in accordance with all shipping requirements.

Note: Anytime that the sample custodian must be separated from the samples, the samples should be locked in a secure place with custody seals on the cooler.

Appendix B

Laboratory Analytical Reports

BRAUN
INTERTEC

Braun Intertec Corporation
11001 Hampshire Avenue S
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Mr. Rich Hansen
Braun Intertec-St. Paul
1826 Buerkle Road
St. Paul, MN 55110

April 07, 2006

Work Order #: 0601731

RE: Testing
SP-06-01257

Dear Mr. Rich Hansen

Braun Intertec Corporation received samples for the project identified above on 03/28/06 09:21. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

William R. Dahl
Senior Scientist

Providing engineering and environmental solutions since 1957

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640 NVLAP: 1021234-0 AIHA: 101103

RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) is provided. It is important to understand this term. The MRL is a level that has been empirically verified to provide reliable quantification of results. Results that are equal to or greater than this value will show up as bolded. They are considered "hits." If a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than would be given as "< 10").

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

Qualifiers and Abbreviations

ho	The sample chromatogram indicates the presence of higher boiling hydrocarbons than expected in the diesel range chromatogram.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-3, 2'	0601731-01	Soil	03/27/06 11:00	03/28/06 09:21
TP-3, 4'	0601731-02	Soil	03/27/06 15:40	03/28/06 09:21
TP-4, 8'	0601731-03	Soil	03/27/06 11:30	03/28/06 09:21
MeOH Blank	0601731-04	Soil	03/27/06 00:00	03/28/06 09:21

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

BRAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

Conditions Upon Receipt

Cooler: Cooler #1

Temperature:	3.8 °C	**Received on Ice:**	Yes	**Preservation Confirmed:**	No
COC Included:	Yes	**Hand Delivered by Sampler:**	Yes	**Temperature Blank:**	Yes
Custody Seals Used:	No	**Sufficient Sample Provided:**	Yes	**COC Complete:**	Yes
Custody Seals Intact:	No	**Headspace Present (VOC):**	No	**COC & Labels Agree:**	Yes

RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

TP-3, 2'

0601731-01 (Soil)

3/27/06 11:00

Classical Chemistry Parameters

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**81**		% Wt	1	B6C0497	3/31/06	4/3/06	SM 2540G	

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-Tetrachloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,1-Trichloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2,2-Tetrachloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Trichlorotrifluoroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
.-Dichloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloropropene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichloropropane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trichlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trimethylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromo-3-chloropropane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromoethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloropropane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3,5-Trimethylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichloropropane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,4-Dichlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2,2-Dichloropropane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Butanone (MEK)	< 0.61	0.61	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Chlorotoluene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Chlorotoluene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Isopropyltoluene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Acetone	< 1.2	1.2	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Allyl Chloride	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
·nzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
.omobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromochloromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromodichloromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
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Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

TP-3, 2'

0601731-01 (Soil)

3/27/06 11:00

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromoform	< 0.31	0.31	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromomethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Carbon Tetrachloride	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorobenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorodibromomethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroform	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
's-1,2-Dichloroethene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
-1,3-Dichloropropene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dibromomethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorodifluoromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorofluoromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethyl Ether	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Hexachlorobutadiene	< 0.12	0.12	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Isopropylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
m,p-Xylenes	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl Isobutyl Ketone	< 0.31	0.31	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methylene chloride	< 0.31	0.31	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl-t-butyl ether	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Naphthalene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Butylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Propylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
o-Xylene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
sec-Butylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Styrene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
tert-Butylbenzene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrachloroethene	< 0.12	0.12	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrahydrofuran	< 0.31	0.31	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Toluene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,2-Dichloroethene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
ns-1,3-Dichloropropene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
ichloroethene	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichlorofluoromethane	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Vinyl chloride	< 0.061	0.061	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Bloomington, MN 55438
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Braun Intertec-St. Paul	Client Ref:	Testing	Work Order #:	0601731
1826 Buerkle Road	Client Contact:	Mr. Rich Hansen	Project Mgr:	William R. Dahl
St. Paul MN, 55110	PO Number:	SP-06-01257	Account ID:	

TP-3, 2'

0601731-01 (Soil)

3/27/06 11:00

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*Limits: 81-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene	*90.4 %*	*Limits: 74-117%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*101 %*	*Limits: 79-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.4 %*	*Limits: 82-115%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	

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Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

TP-3, 4'

0601731-02 (Soil)

3/27/06 15:40

Classical Chemistry Parameters

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84**		% Wt	1	B6C0497	3/31/06	4/3/06	SM 2540G	

Metals

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**4.6**	1.0	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Barium	**89**	2.1	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Cadmium	< 0.52	0.52	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Chromium	**13**	1.0	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Lead	**5.8**	1.0	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Selenium	< 1.0	1.0	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Silver	< 0.52	0.52	mg/kg dry	1	B6C0476	3/30/06	3/31/06	EPA 6010B	
Mercury	**0.024**	0.017	mg/kg dry	1	B6C0445	3/29/06	3/30/06	EPA 7471A	

Total Petroleum Hydrocarbons

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Diesel Range Organics (DRO)	< 8.9	8.9	mg/kg dry	1	B6C0443	3/29/06	3/29/06	WI DRO (95)	ho

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-Tetrachloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,1-Trichloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2,2-Tetrachloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloropropene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichloropropane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trichlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trimethylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromo-3-chloropropane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromoethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloropropane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

TP-3, 4'

0601731-02 (Soil)

3/27/06 15:40

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3,5-Trimethylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichloropropane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,4-Dichlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2,2-Dichloropropane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Butanone (MEK)	< 0.59	0.59	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Chlorotoluene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Chlorotoluene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Isopropyltoluene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Acetone	< 1.2	1.2	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Allyl Chloride	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Benzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromochloromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromodichloromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromoform	< 0.30	0.30	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromomethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Carbon Tetrachloride	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorobenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorodibromomethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroform	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,2-Dichloroethene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,3-Dichloropropene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dibromomethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorodifluoromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorofluoromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethyl Ether	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Hexachlorobutadiene	< 0.12	0.12	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Isopropylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
m,p-Xylenes	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl Isobutyl Ketone	< 0.30	0.30	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methylene chloride	< 0.30	0.30	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl-t-butyl ether	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Braun Intertec-St. Paul 1826 Buerkle Road St. Paul MN, 55110	Client Ref: Testing Client Contact: Mr. Rich Hansen PO Number: SP-06-01257	Work Order #: 0601731 Project Mgr: William R. Dahl Account ID:

TP-3, 4'

0601731-02 (Soil)

3/27/06 15:40

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Butylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Propylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
o-Xylene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
sec-Butylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Styrene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
tert-Butylbenzene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrachloroethene	< 0.12	0.12	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrahydrofuran	< 0.30	0.30	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
.uene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,2-Dichloroethene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,3-Dichloropropene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichloroethene	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichlorofluoromethane	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Vinyl chloride	< 0.059	0.059	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*Limits: 81-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene	*90.8 %*	*Limits: 74-117%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*100 %*	*Limits: 79-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Toluene-d8	*95.2 %*	*Limits: 82-115%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	

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Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

TP-4, 8'

0601731-03 (Soil)

3/27/06 11:30

Classical Chemistry Parameters

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79**		% Wt	1	B6D0056	4/4/06	4/6/06	SM 2540G	

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-Tetrachloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,1-Trichloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2,2-Tetrachloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
-Dichloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloropropene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichloropropane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trichlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trimethylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromo-3-chloropropane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromoethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloropropane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3,5-Trimethylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichloropropane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,4-Dichlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2,2-Dichloropropane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Butanone (MEK)	< 0.63	0.63	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Chlorotoluene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Chlorotoluene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Isopropyltoluene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Acetone	< 1.3	1.3	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Allyl Chloride	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Benzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
omobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromochloromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromodichloromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

TP-4, 8'

0601731-03 (Soil)

3/27/06 11:30

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromoform	< 0.32	0.32	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromomethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Carbon Tetrachloride	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorobenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorodibromomethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroform	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,2-Dichloroethene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,3-Dichloropropene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dibromomethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorodifluoromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorofluoromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethyl Ether	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Hexachlorobutadiene	< 0.13	0.13	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Isopropylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
m,p-Xylenes	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl Isobutyl Ketone	< 0.32	0.32	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methylene chloride	< 0.32	0.32	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl-t-butyl ether	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Naphthalene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Butylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Propylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
o-Xylene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
sec-Butylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Styrene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
tert-Butylbenzene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrachloroethene	< 0.13	0.13	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrahydrofuran	< 0.32	0.32	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Toluene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,2-Dichloroethene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,3-Dichloropropene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichloroethene	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichlorofluoromethane	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Vinyl chloride	< 0.063	0.063	mg/kg dry	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

TP-4, 8'

0601731-03 (Soil)

3/27/06 11:30

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	*115 %*	*Limits: 81-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene	*88.8 %*	*Limits: 74-117%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*100 %*	*Limits: 79-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.4 %*	*Limits: 82-115%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	

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Braun Intertec-St. Paul	Client Ref:	Testing	Work Order #:	0601731
1826 Buerkle Road	Client Contact:	Mr. Rich Hansen	Project Mgr:	William R. Dahl
St. Paul MN, 55110	PO Number:	SP-06-01257	Account ID:	

MeOH Blank

0601731-04 (Soil)

3/27/06 0:00

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1,2-Tetrachloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,1-Trichloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2,2-Tetrachloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloroethene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,1-Dichloropropene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,3-Trichloropropane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trichlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2,4-Trimethylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromo-3-chloropropane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dibromoethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,2-Dichloropropane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3,5-Trimethylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,3-Dichloropropane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
1,4-Dichlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2,2-Dichloropropane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Butanone (MEK)	< 0.50	0.50	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
2-Chlorotoluene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Chlorotoluene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
4-Isopropyltoluene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Acetone	< 1.0	1.0	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Allyl Chloride	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Benzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromochloromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromodichloromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromoform	< 0.25	0.25	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Bromomethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Carbon Tetrachloride	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chlorobenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	

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Braun Intertec-St. Paul	Client Ref:	Testing	Work Order #:	0601731
1826 Buerkle Road	Client Contact:	Mr. Rich Hansen	Project Mgr:	William R. Dahl
St. Paul MN, 55110	PO Number:	SP-06-01257	Account ID:	

MeOH Blank

0601731-04 (Soil)

3/27/06 0:00

Volatile Organic Compounds

Analyte	Result	MRL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chlorodibromomethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloroform	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Chloromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,2-Dichloroethene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
cis-1,3-Dichloropropene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dibromomethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorodifluoromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Dichlorofluoromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
yl Ether	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Ethylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Hexachlorobutadiene	< 0.10	0.10	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Isopropylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
m,p-Xylenes	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl Isobutyl Ketone	< 0.25	0.25	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methylene chloride	< 0.25	0.25	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Methyl-t-butyl ether	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Naphthalene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Butylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
n-Propylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
o-Xylene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
sec-Butylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Styrene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
tert-Butylbenzene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrachloroethene	< 0.10	0.10	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Tetrahydrofuran	< 0.25	0.25	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Toluene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,2-Dichloroethene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
trans-1,3-Dichloropropene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichloroethene	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Trichlorofluoromethane	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
Vinyl chloride	< 0.050	0.050	mg/kg	1	B6D0027	3/29/06	3/29/06	EPA 8260B	
rogate: 1,2-Dichloroethane-d4	*110 %*	*Limits: 81-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
urrogate: 4-Bromofluorobenzene	*90.8 %*	*Limits: 74-117%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*100 %*	*Limits: 79-127%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.4 %*	*Limits: 82-115%*			*B6D0027*	*3/29/06*	*3/29/06*	*EPA 8260B*	

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Braun Intertec-St. Paul	Client Ref:	Testing	Work Order #:	0601731
1826 Buerkle Road	Client Contact:	Mr. Rich Hansen	Project Mgr:	William R. Dahl
St. Paul MN, 55110	PO Number:	SP-06-01257	Account ID:	

Classical Chemistry Parameters - Quality Control

Batch B6C0497 - % Solids

Method Blank (B6C0497-BLK1)

Prepared: 03/31/06 Analyzed: 04/03/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<		% Wt	NA	NA	NA	NA	NA	NA	

Standard Reference Material (B6C0497-SRM1)

Prepared: 03/31/06 Analyzed: 04/03/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.0		% Wt	88.8	NA	98.0	90-110	NA	NA	

Batch B6D0056 - % Solids

Method Blank (B6D0056-BLK1)

Prepared: 04/04/06 Analyzed: 04/06/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<		% Wt	NA	NA	NA	NA	NA	NA	

Standard Reference Material (B6D0056-SRM1)

Prepared: 04/04/06 Analyzed: 04/06/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.6		% Wt	88.8	NA	98.6	90-110	NA	NA	

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1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Metals - Quality Control

Batch B6C0445 - EPA 7471A

Method Blank (B6C0445-BLK1)

Prepared: 03/29/06 Analyzed: 03/30/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	< 0.020	0.020	mg/kg	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B6C0445-BS1)

Prepared: 03/29/06 Analyzed: 03/30/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.247	0.020	mg/kg	0.250	NA	98.8	85-115	NA	NA	

Laboratory Control Sample Duplicate (B6C0445-BSD1)

Prepared: 03/29/06 Analyzed: 03/30/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.248	0.020	mg/kg	0.250	NA	99.2	85-115	0.404	20	

Standard Reference Material (B6C0445-SRM1)

Prepared: 03/29/06 Analyzed: 03/30/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.23	0.15	mg/kg	5.82	NA	72.7	68-132	NA	NA	

Batch B6C0476 - EPA 3050B

Method Blank (B6C0476-BLK1)

Prepared: 03/30/06 Analyzed: 03/31/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	< 1.0	1.0	mg/kg	NA	NA	NA	NA	NA	NA	
Barium	< 2.0	2.0	mg/kg	NA	NA	NA	NA	NA	NA	
Cadmium	< 0.50	0.50	mg/kg	NA	NA	NA	NA	NA	NA	
Chromium	< 1.0	1.0	mg/kg	NA	NA	NA	NA	NA	NA	
Lead	< 1.0	1.0	mg/kg	NA	NA	NA	NA	NA	NA	
Selenium	< 1.0	1.0	mg/kg	NA	NA	NA	NA	NA	NA	
Silver	< 0.50	0.50	mg/kg	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B6C0476-BS1)

Prepared: 03/30/06 Analyzed: 03/31/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	212	1.0	mg/kg	200	NA	106	80-120	NA	NA	
Barium	213	2.0	mg/kg	200	NA	106	80-120	NA	NA	
Cadmium	214	0.50	mg/kg	200	NA	107	80-120	NA	NA	
Chromium	207	1.0	mg/kg	200	NA	104	80-120	NA	NA	

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1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Metals - Quality Control

Batch B6C0476 - EPA 3050B

Laboratory Control Sample (B6C0476-BS1)

Prepared: 03/30/06 Analyzed: 03/31/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	205	1.0	mg/kg	200	NA	102	80-120	NA	NA	
Selenium	211	1.0	mg/kg	200	NA	106	80-120	NA	NA	
Silver	39.4	0.50	mg/kg	40.0	NA	98.5	80-120	NA	NA	

Laboratory Control Sample Duplicate (B6C0476-BSD1)

Prepared: 03/30/06 Analyzed: 03/31/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	209	1.0	mg/kg	200	NA	104	80-120	1.43	20	
Barium	210	2.0	mg/kg	200	NA	105	80-120	1.42	20	
Cadmium	210	0.50	mg/kg	200	NA	105	80-120	1.89	20	
Chromium	204	1.0	mg/kg	200	NA	102	80-120	1.46	20	
Lead	206	1.0	mg/kg	200	NA	103	80-120	0.487	20	
Selenium	208	1.0	mg/kg	200	NA	104	80-120	1.43	20	
Silver	39.4	0.50	mg/kg	40.0	NA	98.5	80-120	0.00	20	

Standard Reference Material (B6C0476-SRM1)

Prepared: 03/30/06 Analyzed: 03/31/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	86.5	2.4	mg/kg	95.9	NA	90.2	79.8-120	NA	NA	
Barium	150	4.9	mg/kg	157	NA	95.5	82.2-118	NA	NA	
Cadmium	45.5	1.2	mg/kg	54.6	NA	83.3	81.5-118	NA	NA	
Chromium	68.4	2.4	mg/kg	68.8	NA	99.4	78.5-122	NA	NA	
Lead	107	2.4	mg/kg	121	NA	88.4	80.6-120	NA	NA	
Selenium	95.4	2.4	mg/kg	102	NA	93.5	75.6-124	NA	NA	
Silver	92.2	1.2	mg/kg	106	NA	87.0	61.2-139	NA	NA	

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1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Total Petroleum Hydrocarbons - Quality Control

Batch B6C0443 - WI DRO (95)

Method Blank (B6C0443-BLK1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics (DRO)	< 10	10	mg/kg	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B6C0443-BS1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics (DRO)	26.4	10	mg/kg	32.0	NA	82.5	70-120	NA	NA	

Laboratory Control Sample Duplicate (B6C0443-BSD1)

Prepared: 03/29/06 Analyzed: 03/30/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Diesel Range Organics (DRO)	26.1	10	mg/kg	32.0	NA	81.6	70-120	1.14	20	

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1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Volatile Organic Compounds - Quality Control

Batch B6D0027 - EPA 5035

Method Blank (B6D0027-BLK1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1,1-Trichloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1,2-Trichloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1,2-Trichlorotrifluoroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,1-Dichloropropene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2,3-Trichlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2,3-Trichloropropane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
4-Trimethylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Dibromo-3-chloropropane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2-Dibromoethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,3-Dichloropropane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
2,2-Dichloropropane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
2-Butanone (MEK)	< 0.50	0.50	mg/kg	NA	NA	NA	NA	NA	NA	
2-Chlorotoluene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
4-Chlorotoluene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
4-Isopropyltoluene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Acetone	< 1.0	1.0	mg/kg	NA	NA	NA	NA	NA	NA	
Allyl Chloride	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Benzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Bromobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Bromochloromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Bromoform	< 0.25	0.25	mg/kg	NA	NA	NA	NA	NA	NA	
Bromomethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorobenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorodibromomethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Chloroethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Chloroform	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Chloromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
cis-1,3-Dichloropropene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
romomethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
chlorodifluoromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Dichlorofluoromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Ethyl Ether	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Ethylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	

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1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Volatile Organic Compounds - Quality Control

Batch B6D0027 - EPA 5035

Method Blank (B6D0027-BLK1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexachlorobutadiene	< 0.10	0.10	mg/kg	NA	NA	NA	NA	NA	NA	
Isopropylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
m,p-Xylenes	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Methyl Isobutyl Ketone	< 0.25	0.25	mg/kg	NA	NA	NA	NA	NA	NA	
Methylene chloride	< 0.25	0.25	mg/kg	NA	NA	NA	NA	NA	NA	
Methyl-t-butyl ether	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Naphthalene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
n-Butylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
n-Propylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
o-Xylene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
sec-Butylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
[illegible]rene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
[illegible]Butylbenzene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	< 0.10	0.10	mg/kg	NA	NA	NA	NA	NA	NA	
Tetrahydrofuran	< 0.25	0.25	mg/kg	NA	NA	NA	NA	NA	NA	
Toluene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
trans-1,2-Dichloroethene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
trans-1,3-Dichloropropene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Trichloroethene	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Trichlorofluoromethane	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Vinyl chloride	< 0.050	0.050	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: 1,2-Dichloroethane-d4	*26.9*		*ug/L*	*25.0*	*NA*	*108*	*81-127*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/L*	*25.0*	*NA*	*95.2*	*74-117*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.0*	*NA*	*100*	*79-127*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.0*	*NA*	*99.6*	*82-115*			

Laboratory Control Sample (B6D0027-BS1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	1.31	0.050	mg/kg	1.25	NA	105	80-120	NA	NA	
1,1,1-Trichloroethane	1.28	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
1,1,2,2-Tetrachloroethane	1.31	0.050	mg/kg	1.25	NA	105	80-120	NA	NA	
1,1,2-Trichloroethane	1.27	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
1,1,2-Trichlorotrifluoroethane	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
1,1-Dichloroethane	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	NA	NA	
1,1-Dichloroethene	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	NA	NA	
1,1-Dichloropropene	1.20	0.050	mg/kg	1.25	NA	96.0	80-120	NA	NA	
1,2,3-Trichlorobenzene	1.29	0.050	mg/kg	1.25	NA	103	80-120	NA	NA	
1,2,3-Trichloropropane	1.30	0.050	mg/kg	1.25	NA	104	80-120	NA	NA	
1,2,4-Trichlorobenzene	1.29	0.050	mg/kg	1.25	NA	103	80-120	NA	NA	
[illegible]1-Trimethylbenzene	1.26	0.050	mg/kg	1.25	NA	101	80-120	NA	NA	
[illegible]Dibromo-3-chloropropane	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
1,2-Dibromoethane	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
1,2-Dichlorobenzene	1.27	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
1,2-Dichloroethane	1.29	0.050	mg/kg	1.25	NA	103	80-120	NA	NA	

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St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Volatile Organic Compounds - Quality Control

Batch B6D0027 - EPA 5035

Laboratory Control Sample (B6D0027-BS1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloropropane	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
1,3,5-Trimethylbenzene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
1,3-Dichlorobenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
1,3-Dichloropropane	1.28	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
1,4-Dichlorobenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
2,2-Dichloropropane	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
2-Butanone (MEK)	1.12	0.50	mg/kg	1.25	NA	89.6	80-120	NA	NA	
2-Chlorotoluene	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	NA	NA	
4-Chlorotoluene	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	NA	NA	
4-Isopropyltoluene	1.26	0.050	mg/kg	1.25	NA	101	80-120	NA	NA	
Acetone	1.47	1.0	mg/kg	1.25	NA	118	80-120	NA	NA	
'yl Chloride	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	NA	NA	
zene	1.22	0.050	mg/kg	1.25	NA	97.6	80-120	NA	NA	
Bromobenzene	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	NA	NA	
Bromochloromethane	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
Bromodichloromethane	1.38	0.050	mg/kg	1.25	NA	110	80-120	NA	NA	
Bromoform	1.26	0.25	mg/kg	1.25	NA	101	80-120	NA	NA	
Bromomethane	1.31	0.050	mg/kg	1.25	NA	105	80-120	NA	NA	
Carbon Tetrachloride	1.41	0.050	mg/kg	1.25	NA	113	80-120	NA	NA	
Chlorobenzene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	NA	NA	
Chlorodibromomethane	1.42	0.050	mg/kg	1.25	NA	114	80-120	NA	NA	
Chloroethane	1.29	0.050	mg/kg	1.25	NA	103	80-120	NA	NA	
Chloroform	1.27	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
Chloromethane	1.17	0.050	mg/kg	1.25	NA	93.6	80-120	NA	NA	
cis-1,2-Dichloroethene	1.22	0.050	mg/kg	1.25	NA	97.6	80-120	NA	NA	
cis-1,3-Dichloropropene	1.26	0.050	mg/kg	1.25	NA	101	80-120	NA	NA	
Dibromomethane	1.30	0.050	mg/kg	1.25	NA	104	80-120	NA	NA	
Dichlorodifluoromethane	1.05	0.050	mg/kg	1.25	NA	84.0	80-120	NA	NA	
Dichlorofluoromethane	1.40	0.050	mg/kg	1.25	NA	112	80-120	NA	NA	
Ethyl Ether	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	NA	NA	
Ethylbenzene	1.22	0.050	mg/kg	1.25	NA	97.6	80-120	NA	NA	
Hexachlorobutadiene	1.11	0.10	mg/kg	1.25	NA	88.8	80-120	NA	NA	
Isopropylbenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
m,p-Xylenes	2.48	0.050	mg/kg	2.50	NA	99.2	80-120	NA	NA	
Methyl Isobutyl Ketone	1.23	0.25	mg/kg	1.25	NA	98.4	80-120	NA	NA	
Methylene chloride	1.23	0.25	mg/kg	1.25	NA	98.4	80-120	NA	NA	
Methyl-t-butyl ether	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	NA	NA	
Naphthalene	1.35	0.050	mg/kg	1.25	NA	108	80-120	NA	NA	
n-Butylbenzene	1.28	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
n-Propylbenzene	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	NA	NA	
o-Xylene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
sec-Butylbenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
ene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
-Butylbenzene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	NA	NA	
Tetrachloroethene	1.23	0.10	mg/kg	1.25	NA	98.4	80-120	NA	NA	
Tetrahydrofuran	1.11	0.25	mg/kg	1.25	NA	88.8	80-120	NA	NA	
Toluene	1.20	0.050	mg/kg	1.25	NA	96.0	80-120	NA	NA	

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RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Volatile Organic Compounds - Quality Control

Batch B6D0027 - EPA 5035

Laboratory Control Sample (B6D0027-BS1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
trans-1,2-Dichloroethene	1.19	0.050	mg/kg	1.25	NA	95.2	80-120	NA	NA	
trans-1,3-Dichloropropene	1.28	0.050	mg/kg	1.25	NA	102	80-120	NA	NA	
Trichloroethene	1.25	0.050	mg/kg	1.25	NA	100	80-120	NA	NA	
Trichlorofluoromethane	1.38	0.050	mg/kg	1.25	NA	110	80-120	NA	NA	
Vinyl chloride	1.08	0.050	mg/kg	1.25	NA	86.4	80-120	NA	NA	
Surrogate: 1,2-Dichloroethane-d4	*26.0*		*ug/L*	*25.0*	*NA*	*104*	*81-127*			
Surrogate: 4-Bromofluorobenzene	*24.8*		*ug/L*	*25.0*	*NA*	*99.2*	*74-117*			
Surrogate: Dibromofluoromethane	*25.9*		*ug/L*	*25.0*	*NA*	*104*	*79-127*			
Surrogate: Toluene-d8	*24.8*		*ug/L*	*25.0*	*NA*	*99.2*	*82-115*			

Laboratory Control Sample Duplicate (B6D0027-BSD1)

Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	1.35	0.050	mg/kg	1.25	NA	108	80-120	3.01	20	
1,1,1-Trichloroethane	1.33	0.050	mg/kg	1.25	NA	106	80-120	3.83	20	
1,1,2,2-Tetrachloroethane	1.34	0.050	mg/kg	1.25	NA	107	80-120	2.26	20	
1,1,2-Trichloroethane	1.30	0.050	mg/kg	1.25	NA	104	80-120	2.33	20	
1,1,2-Trichlorotrifluoroethane	1.27	0.050	mg/kg	1.25	NA	102	80-120	2.39	20	
1,1-Dichloroethane	1.25	0.050	mg/kg	1.25	NA	100	80-120	3.25	20	
1,1-Dichloroethene	1.28	0.050	mg/kg	1.25	NA	102	80-120	8.13	20	
1,1-Dichloropropene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	2.47	20	
1,2,3-Trichlorobenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	3.15	20	
1,2,3-Trichloropropane	1.34	0.050	mg/kg	1.25	NA	107	80-120	3.03	20	
1,2,4-Trichlorobenzene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	4.76	20	
1,2,4-Trimethylbenzene	1.26	0.050	mg/kg	1.25	NA	101	80-120	0.00	20	
1,2-Dibromo-3-chloropropane	1.25	0.050	mg/kg	1.25	NA	100	80-120	0.803	20	
1,2-Dibromoethane	1.28	0.050	mg/kg	1.25	NA	102	80-120	2.37	20	
1,2-Dichlorobenzene	1.26	0.050	mg/kg	1.25	NA	101	80-120	0.791	20	
1,2-Dichloroethane	1.30	0.050	mg/kg	1.25	NA	104	80-120	0.772	20	
1,2-Dichloropropane	1.28	0.050	mg/kg	1.25	NA	102	80-120	2.37	20	
1,3,5-Trimethylbenzene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	0.810	20	
1,3-Dichlorobenzene	1.25	0.050	mg/kg	1.25	NA	100	80-120	0.00	20	
1,3-Dichloropropane	1.28	0.050	mg/kg	1.25	NA	102	80-120	0.00	20	
1,4-Dichlorobenzene	1.26	0.050	mg/kg	1.25	NA	101	80-120	0.797	20	
2,2-Dichloropropane	1.26	0.050	mg/kg	1.25	NA	101	80-120	1.60	20	
2-Butanone (MEK)	1.18	0.50	mg/kg	1.25	NA	94.4	80-120	5.22	20	
2-Chlorotoluene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	1.64	20	
4-Chlorotoluene	1.25	0.050	mg/kg	1.25	NA	100	80-120	3.25	20	
4-Isopropyltoluene	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	4.05	20	
Acetone	1.46	1.0	mg/kg	1.25	NA	117	80-120	0.683	20	
'vl Chloride	1.26	0.050	mg/kg	1.25	NA	101	80-120	6.56	20	
;zene	1.28	0.050	mg/kg	1.25	NA	102	80-120	4.80	20	
Bromobenzene	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	4.15	20	
Bromochloromethane	1.29	0.050	mg/kg	1.25	NA	103	80-120	3.95	20	
Bromodichloromethane	1.42	0.050	mg/kg	1.25	NA	114	80-120	2.86	20	

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RAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

Volatile Organic Compounds - Quality Control

Batch B6D0027 - EPA 5035

Laboratory Control Sample Duplicate (B6D0027-BSD1) Prepared & Analyzed: 03/29/06

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	1.31	0.25	mg/kg	1.25	NA	105	80-120	3.89	20	
Bromomethane	1.46	0.050	mg/kg	1.25	NA	117	80-120	10.8	20	
Carbon Tetrachloride	1.47	0.050	mg/kg	1.25	NA	118	80-120	4.17	20	
Chlorobenzene	1.27	0.050	mg/kg	1.25	NA	102	80-120	3.20	20	
Chlorodibromomethane	1.47	0.050	mg/kg	1.25	NA	118	80-120	3.46	20	
Chloroethane	1.50	0.050	mg/kg	1.25	NA	120	80-120	15.1	20	
Chloroform	1.31	0.050	mg/kg	1.25	NA	105	80-120	3.10	20	
Chloromethane	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	5.81	20	
cis-1,2-Dichloroethene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	1.63	20	
cis-1,3-Dichloropropene	1.30	0.050	mg/kg	1.25	NA	104	80-120	3.12	20	
Dibromomethane	1.32	0.050	mg/kg	1.25	NA	106	80-120	1.53	20	
Dichlorodifluoromethane	1.05	0.050	mg/kg	1.25	NA	84.0	80-120	0.00	20	
Dichlorofluoromethane	1.49	0.050	mg/kg	1.25	NA	119	80-120	6.23	20	
Ethyl Ether	1.17	0.050	mg/kg	1.25	NA	93.6	80-120	3.36	20	
Ethylbenzene	1.27	0.050	mg/kg	1.25	NA	102	80-120	4.02	20	
Hexachlorobutadiene	1.11	0.10	mg/kg	1.25	NA	88.8	80-120	0.00	20	
Isopropylbenzene	1.28	0.050	mg/kg	1.25	NA	102	80-120	2.37	20	
m,p-Xylenes	2.56	0.050	mg/kg	2.50	NA	102	80-120	3.17	20	
Methyl Isobutyl Ketone	1.31	0.25	mg/kg	1.25	NA	105	80-120	6.30	20	
Methylene chloride	1.26	0.25	mg/kg	1.25	NA	101	80-120	2.41	20	
Methyl-t-butyl ether	1.23	0.050	mg/kg	1.25	NA	98.4	80-120	1.64	20	
Naphthalene	1.31	0.050	mg/kg	1.25	NA	105	80-120	3.01	20	
n-Butylbenzene	1.22	0.050	mg/kg	1.25	NA	97.6	80-120	4.80	20	
n-Propylbenzene	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	0.00	20	
o-Xylene	1.30	0.050	mg/kg	1.25	NA	104	80-120	4.72	20	
sec-Butylbenzene	1.20	0.050	mg/kg	1.25	NA	96.0	80-120	4.08	20	
Styrene	1.28	0.050	mg/kg	1.25	NA	102	80-120	3.17	20	
tert-Butylbenzene	1.21	0.050	mg/kg	1.25	NA	96.8	80-120	2.45	20	
Tetrachloroethene	1.26	0.10	mg/kg	1.25	NA	101	80-120	2.41	20	
Tetrahydrofuran	1.15	0.25	mg/kg	1.25	NA	92.0	80-120	3.54	20	
Toluene	1.24	0.050	mg/kg	1.25	NA	99.2	80-120	3.28	20	
trans-1,2-Dichloroethene	1.25	0.050	mg/kg	1.25	NA	100	80-120	4.92	20	
trans-1,3-Dichloropropene	1.31	0.050	mg/kg	1.25	NA	105	80-120	2.32	20	
Trichloroethene	1.29	0.050	mg/kg	1.25	NA	103	80-120	3.15	20	
Trichlorofluoromethane	1.48	0.050	mg/kg	1.25	NA	118	80-120	6.99	20	
Vinyl chloride	1.18	0.050	mg/kg	1.25	NA	94.4	80-120	8.85	20	
Surrogate: 1,2-Dichloroethane-d4	*25.8*		*ug/L*	*25.0*	*NA*	*103*	*81-127*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*ug/L*	*25.0*	*NA*	*101*	*74-117*			
Surrogate: Dibromofluoromethane	*25.6*		*ug/L*	*25.0*	*NA*	*102*	*79-127*			
Surrogate: Toluene-d8	*25.0*		*ug/L*	*25.0*	*NA*	*100*	*82-115*			

BRAUN INTERTEC

11001 Hampshire Ave. S.
Bloomington, MN 55438
952-995-2000 Phone
952-995-2020 Fax

Braun Intertec-St. Paul	Client Ref: Testing	Work Order #: 0601731
1826 Buerkle Road	Client Contact: Mr. Rich Hansen	Project Mgr: William R. Dahl
St. Paul MN, 55110	PO Number: SP-06-01257	Account ID:

For Braun Intertec Use Only
Braun Intertec Project No. 0601731

BRAUN INTERTEC
Braun Intertec Corporation
11001 Hampshire Ave. S
Minneapolis, MN 55438

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Bottle orders and sampling inquires:
labservices@braunintertec.com
Phone: 952-995-2600 Fax: 952-995-2601

IMPORTANT
Date Results Requested: Normal
Time 2 weeks
Rush Charges Authorized? ___ Yes X No
Rush / Quote # _____

Page 1 of 1

REPORT RESULTS TO
Contact Name Rich Hansen
Company Braun SP
Mailing Address
City, State, Zip
Telephone #
Fax #
E-mail

Project ID/Project Name SP-06-01257
P.O. #

SEND INVOICE TO
Contact Name
Company
Address
City, State, Zip
Telephone #
Fax #

Special Instructions and/or Specific Regulatory Requirements:
(method, limit of detection, petroleum, reporting units)

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request)

	CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Metals Field Filtered Y/N	VOC	DRO	RCRA Metals	FOR LAB USE ONLY
1	TP-3 2'	3-27-06	11:00	S	—	2	N	X			0601731-1
2	TP-3 4'	3-27-06	3:40	S	—	3	N	X	X	X	-2
3	TP-4 8'	3-27-06	11:30	S	—	2	N	X			-3
4	MEOH Blank	3-27-06	—	S	—	1	N	X			-4
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

CHAIN OF CUSTODY
Collected by: (Print) Matt Bourgeois
Collector's Signature: [signature]
Relinquished by: [signature] Date/Time 3-29-06 8:15
Relinquished by: Date/Time
Received by: Date/Time
Received Contents Not Verified: Date/Time
Received Contents Verified: [signature] Date/Time 3/28/06 0921
Custody Seal Intact ☐ Yes ☐ No ☑ N/A
On Ice ☑ Yes ☐ No
Temp Blank ☑ Yes ☐ No
Temp: 3.8 °C
Comments: Shipped on ice - hand delivered.

Form # CS02.01 F:\Groups\QA-QC\Forms\clientservices\COC-CS02 Effective Date: 7/22/05