CONRAD GEOSCIENCE CORP.



8 Raymond Avenue, Poughkeepsie, New York 12603 • 845/454-2544 • fax: 845/454-2655

March 10, 2005

Environmental Scientists

Michael MacCabe, P.E. New York State Dept. of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12th Floor Albany, New York 12233-7015



Re: Vapor Intrusion Sampling Apple Valley Shopping Center Superfund Site, LaGrange, New York Index No. II-CERCLA-10224 Conrad Geoscience File #AL030070

Dear Mr. MacCabe:

In January 2005, Conrad Geoscience Corp. conducted sub-slab vapor and indoor air sampling at the Apple Valley Shopping Center in accordance with the Interim Remedial Measure Work Plan, as amended January 21, 2005.

SUB-SLAB VAPOR AND INDOOR AIR QUALITY MONITORING

On December 23, 2004, Conrad Geoscience installed sub-slab vapor sampling ports in four indoor locations: Foodtown, Absolute Pizza, Soccer Empire, and the Lagrange Pharmacy. Sample port locations are shown in Figure 1.

Conrad Geoscience installed each sub-slab sampling port by coring a 2-inch diameter "outer" hole into the floor slab to a depth of $1\frac{1}{2}$ inches; then drilling a 5/8-inch diameter "inner" hole through the bottom of the floor slab. The concrete slab thickness in each location is nominally 4 inches. We inserted a stainless steel tube into the inner hole and cemented it in place, with the open bottom end of the tube extending approximately 2 inches below the base of the slab. The top end of the tube is fitted with a threaded stainless steel coupling and a removable threaded stainless steel plug. The top of the removable plug is finished flush with floor grade.

On January 26 and 27, 2005, Conrad Geoscience collected a sub-slab vapor sample and an ambient indoor air sample at each of the four locations. Prior to sample collection, we purged each sampling port by attaching a peristaltic sampling pump to the threaded coupling and evacuating the vapors into two 1-liter Tedlar® bags. We screened the Tedlar® bag contents with a 4-gas meter: Percent oxygen (% O_2), percent of lower explosive limit (% LEL), carbon monoxide (CO), and hydrogen sulfide (H₂S).

After purging, Conrad Geoscience collected sub-slab vapor samples by connecting each sampling port to a 6-liter summa canister with dedicated Teflon® tubing and opening the canister valve. The summa canister is fitted with a flow controller, which was set to collect a 6-liter sample over a 24-hour period.

Vapor Intrusion Sampling Apple Valley Shopping Center March 10, 2005 Page 2

We collected a simultaneous ambient indoor air sample at each of the four locations using identical summa canisters.

We also collected a simultaneous ambient outdoor air sample using a summa canister. This sample was collected from the vicinity of Monitoring Well MW-3, approximately 100 feet south of the Foodtown building.

On January 27, at the end of the 24-hour sampling period, we shipped the summa canisters via overnight delivery to Columbia Analytical Services in Simi Valley, California, a NYSDOH-certified laboratory. Samples were analyzed for tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene; and vinyl chloride via USEPA Method TO-15. Sample numbers are as follows:

| Location | Sub-Slab Vapor | Indoor Air | |
|-------------------|----------------|------------|--|
| Foodtown | SVFT-1 | AIFT-1 | |
| Absolute Pizza | SVAP-1 | AIAP-1 | |
| Soccer Empire | SVSE-1 | AISE-1 | |
| LaGrange Pharmacy | SVLP-1 | AILP-1 | |

RESULTS

Sample results are summarized in Table 1. Copies of laboratory reports are attached. Three of the four sub-slab vapor samples contained PCE at concentrations which exceed the proposed NYSDOH action levels set forth in the NYSDOH guidance document: *Soil Vapor/Indoor Air Matrices for PCE and TCE (Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, Public Comment Draft, February 2005)

Samples SVFT-1 and IAFT-1 (Foodtown) contained PCE at concentrations of 2,500 ug/m^3 (sub-slab) and 9.7 ug/m^3 (indoor) respectively. Samples SVAP-1 and IAAP-1 (Absolute Pizza) contained PCE at concentrations of 160 ug/m^3 (sub-slab) and 26 ug/m^3 (indoor). Samples SVSE-1 and IASE-1 (Soccer Empire) contained PCE at concentration of 14 ug/m^3 (sub-slab) and <0.69 m³ (indoor). Samples SVLP-1 and IALP-1 (LaGrange Pharmacy) contained PCE at concentrations of 220 ug/m^3 (sub-slab) and 1.5 ug/m^3 (indoor).

Samples SVFT-1 and IAFT-1 (Foodtown) contained TCE at concentrations of 13 ug/m³ (sub-slab) and <0.97 ug/m³ (indoor) respectively. Samples SVAP-1 and IAAP-1 (Absolute Pizza) contained TCE at concentrations of 3.6 ug/m³ (sub-slab) and <0.84 ug/m³ (indoor). Samples SVSE-1 and IASE-1 (Soccer Empire) contained TCE at concentration of <0.64 ug/m³ (sub-slab) and <0.69 m³ (indoor). Samples SVLP-1 and IALP-1 (LaGrange Pharmacy) contained TCE at concentrations of 10 ug/m³ (sub-slab) and <1.5 ug/m³ (indoor).

CONRAD GEOSCIENCE CORP.



Vapor Intrusion Sampling Apple Valley Shopping Center March 10, 2005 Page 3

Neither vinyl chloride nor cis-2-dichloroethene were detected in any sub-slab or indoor air samples. No VOCs were detected in the ambient outdoor air sample.

RECOMMENDATIONS

The PCE concentration of 2,500 ug/m³ detected in the Foodown sub-slab vapor sample is significantly higher than the results obtained proximate to the known source area. Accordingly, this sub-slab sample result is considered potentially anomalous. We recommend, therefore, that the Foodtown location be re-sampled for verification purposes.

On February 23, 2005, NYSDOH issued for Public Comment the "Proposed Guidance for Evaluating Soil Vapor Intrusion in the State of New York." Public comments on the proposed guidance are due to NYSDOH on or before April 23, 2005. Thereafter, it is anticipated that NYSDOH will proceed to adopt the guidance as proposed, or with modifications based on public comments.

Given this regulatory status, it is recommended that a final proposal for further monitoring or mitigation of sub-slab vapors at the Apple Valley Shopping Center site be held in abeyance until NYSDOH issues final guidance.

Sincerely,

CONRAD GEOSCIENCE CORP.

John A. Conrad Senior Hydrogeologist

JAC/seg

attachments

cc: D. Engel J. Klein M. Millspaugh J. Crua K. Comerford D. MacDougal



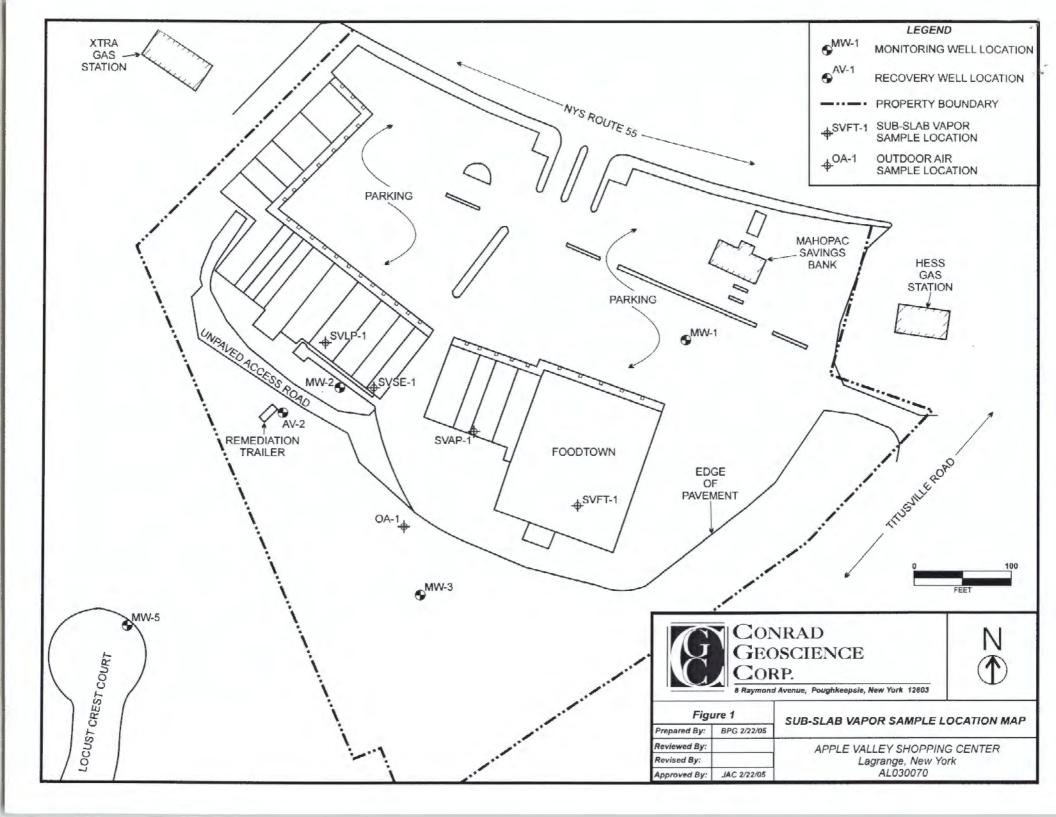


Table 1. Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples; USEPA TO-15; collected January 26, 2005; Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

1

| | Sample Identification | | | | | | | | | |
|--|------------------------|------------------------|------------------------|-----------|---------------|------------------------|------------------------|----------------------|------------------------|--|
| Chemical Constituent | FOODTOWN | | ABSOLUTE PIZZA | | SOCCER EMPIRE | | LAGRANGE PHARMACY | | | |
| | SVFT-1 | IAFT-1 | SVAP-1 | IAAP-1 | SVSE-1 | IASE-1 | SVLP-1 | IALP-1 | OA-1 | |
| | | 1 | | | | | | | I | |
| Vinyl Chloride | ND < 0.82 | ND < 0.97 | ND < 0.79 | ND < 0.84 | ND < 0.64 | ND < 0.69 | ND < 0.85 | ND < 1.5 | ND < 0.69 | |
| Vinyl Chloride cis-1,2-Dichloroethene | ND < 0.82 ND < 0.82 | ND < 0.97 ND < 0.97 | ND < 0.79 ND < 0.79 | ND < 0.84 | ND < 0.64 | ND < 0.69 ND < 0.69 | ND < 0.85 ND < 0.85 | ND < 1.5 ND < 1.5 | ND < 0.69 ND < 0.69 | |
| | | | | | | | | | | |

All units are ug/m³ unless otherwise noted;

SV prefix represents sub-slab vapor samples; IA prefix represents ambient indoor air samples;

OA-1 represents ambient outdoor air;

Boldface type indicates need for ongoing monitoring or other action, as per attached matrix.

Soil Vapor/Indoor Air Matrix for PCE

WORKING DRAFT 12.15.04

SUBJECT TO CHANGE

| | | INDOOR AIR CONCENT | RATION of PCE (mcg/m ³) | |
|---|----------------------|--|---|---|
| SUB-SLAB VAPOR CONCENTRATION of PCE (mcg/m ³) | < 3 | 3 to < 30 | 30 to < 100 | 100 and above |
| < 100 | 1. No further action | 2. Take reasonable and practical actions to identify source(s) and reduce exposures | 3. Take reasonable and practical actions to identify source(s) and reduce exposures and — Monitor | 4. MITIGATE or — Take reasonable and practical actions to identify source(s) and reduce exposures and — Monitor |
| 100 to < 1,000 | 5. Monitor | 6. Monitor | 7. MITIGATE | 8. MITIGATE |
| 1,000 and above | 9. MITIGATE | 10. MITIGATE | 11. MITIGATE | 12. MITIGATE |

No further action: Given that PCE was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take steps to identify source(s) and reduce exposures: The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed).

Monitor: Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is an interim measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

See additional notes on page 2.

PCE MATRIX Page 1 of 2

This matrix provides guidance on actions that should be taken to address current and potential exposures related to soil vapor intrusion. To use the matrix accurately as a tool in the decision-making process, the following must be noted:

- [1] The matrix is generic. As such, it may be necessary to modify recommended actions to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or site-specific conditions (e.g., proximity of building to identified subsurface contamination) for the protection of public health. Additionally, actions more conservative than those specified within the matrix may be implemented at any time. More conservative actions are often cost-based (e.g., the cost of additional sampling versus the cost of mitigation) rather than health-based.
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude the need to investigate possible sources of vapor contamination, nor does it preclude the need to remediate contaminated soil vapors or the source of soil vapor contamination.
- [3] Extreme care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples must be analyzed by methods that can achieve a minimum reporting limit of 3 micrograms PCE per cubic meter.
- [4] Sub-slab vapor and indoor air samples (basement and lowest occupied living space) are typically collected during the heating season since soil vapor intrusion is more likely to occur when a building's heating system is in operation and air is being drawn into the building. If samples are collected during other times of the year, it may be necessary to resample during the heating season to evaluate exposures accurately.
- [5] When current exposures are attributed to sources other than vapor intrusion, the agencies must be provided documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

Soil Vapor/Indoor Air Matrix for TCE

WORKING DRAFT 10.25.04

SUBJECT TO CHANGE

| | INDOOR AIR CONCENTRATION of TCE (mcg/m ³) | | | | | | |
|---|---|---|---|--|--|--|--|
| SUB-SLAB VAPOR CONCENTRATION of TCE (mcg/m ³) | < 0.25 | 0.25 to < 2.5 | 2.5 to < 5.0 | 5.0 and above | | | |
| < 5 | 1. No further action | Take steps to identify source(s) and reduce exposures | Take steps to identify source(s) and reduce exposures | 4. Take steps to identify source(s) and reduce exposures | | | |
| 5 to < 50 | 5. No further action | 6. Monitor as appropriate | 7. Monitor as appropriate | 8. MITIGATE | | | |
| 50 to < 250 | 9. Monitor as appropriate | 10. Monitor as appropriate | 11. MITIGATE | 12. MITIGATE | | | |
| 250 to < 2,500 | 13. Monitor as appropriate | 14. MITIGATE | 15. MITIGATE | 16. MITIGATE | | | |
| 2,500 or above | 17. Monitor as appropriate | 18. MITIGATE | 19. MITIGATE | 20. MITIGATE | | | |

No further action: Given that TCE was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take steps to identify source(s) and reduce exposures: The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed).

Monitor as appropriate: Monitoring is needed to confirm concentrations in the indoor air have not increased due to changes in pressure gradients (e.g., deterioration of building foundation) or to evaluate temporal trends for relevant environmental data. Monitoring may also be needed to verify that existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are minimizing potential effects associated with soil vapor intrusion. The type and frequency of monitoring is determined on a site-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

See additional notes on page 2.

TCE MATRIX Page 1 of 2

This matrix provides guidance on actions that should be taken to address current and potential exposures related to soil vapor intrusion. To use the matrix accurately as a tool in the decision-making process, the following must be noted:

- [1] The matrix is generic. As such, it may be necessary to modify recommended actions to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or site-specific conditions (e.g., proximity of building to identified subsurface contamination) for the protection of public health. Additionally, actions more conservative than those specified within the matrix may be implemented at any time. More conservative actions are often cost-based (e.g., the cost of additional sampling versus the cost of mitigation) rather than health-based.
- [2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude the need to investigate possible sources of vapor contamination, nor does it preclude the need to remediate contaminated soil vapors or the source of soil vapor contamination.
- [3] Extreme care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples must be analyzed by methods that can achieve a minimum reporting limit of 0.25 microgram TCE per cubic meter.
- [4] Sub-slab vapor and indoor air samples are typically collected during the heating season since soil vapor intrusion is more likely to occur when a building's heating system is in operation and air is being drawn into the building. If samples are collected during other times of the year, it may be necessary to resample during the heating season to evaluate exposures accurately.
- [5] When current exposures are attributed to sources other than vapor intrusion, the agencies must be provided documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

TCE MATRIX Page 2 of 2

2665 Park Center Drive, Suite D Simi Valley, California 93065 (805) 526-7161 ph (805) 526-7270 fax



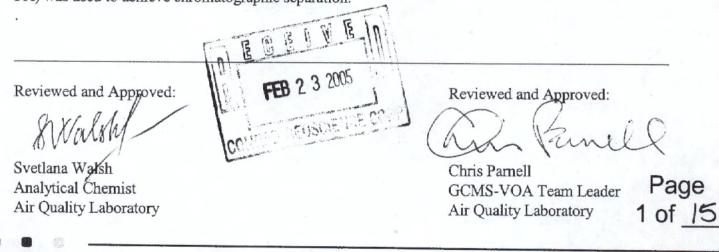
LABORATORY REPORT

| "SVFT-1" "IASE-1" | "IAFT-1" "SVLP-1" | "SVAP-1" "IALP-1" | "IAAP-1" "OA-1" | "SVSE-1" |
|--|---------------------------|----------------------|--------------------|----------|
| Nine (9) Sta | inless Steel Summa Canist | ers labeled: | | |
| Client Project ID: Apple Valley Shopping Center/AL030070 | | | New York Lab ID: | 11221 |
| Contact: | Mr. Brian Goodwin | | Purchase Order: | AL030070 |
| | Poughkeepsie, NY 126 | 03 | CAS Project No: | P2500199 |
| Address: | 8 Raymond Avenue, Su | uite 23 | Date Received: | 01/28/05 |
| Client: | CONRAD GEOSCIEN | ICE CORPORATION | Date of Report: | 02/16/05 |

The samples were received at the laboratory under chain of custody on January 28, 2005. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of an Agilent Model 5973inert GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x -1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.





CAS Project No: P2500199

1.9

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | SVFT-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

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CAS Project ID: P2500199 CAS Sample ID: P2500199-001

| Test Code: Instrument ID: Analyst: | EPA TO-15 Tekmar AUTOCAN/Agilent 5973iner Svetlana Walsh | rt/6890N/MS8 | | Date Collected: 1/26/0 Date Received: 1/28/0 | 05 |
|--|--|--------------|------|---|---------------------------------|
| Sampling Media: | Summa Canister | | | Date(s) Analyzed: 2/1/05 | |
| Test Notes: | Summa Camster | | | Volume(s) Analyzed: | 1.00 Liter(s) 0.050 Liter(s) |
| Container ID: | AC00238 | | | | |
| | | Pi 1 = | -3.5 | Pf 1 = 3.6 | |
| | | | | | D.F. = 1.63 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.82 | ND | 0.32 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.82 | ND | 0.21 | |
| 79-01-6 | Trichloroethene | 13 | 0.82 | 2.5 | 0.15 | |
| 127-18-4 | Tetrachloroethene | 2,500 | 0.82 | 370 | 0.12 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC-

RESULTS OF ANALYSIS

Page 1 of 1

Conrad Geoscience Corporation Client: Client Sample ID: IAFT-1 **Client Project ID:** Apple Valley Shopping Center/AL030070

** 3

CAS Project ID: P2500199 CAS Sample ID: P2500199-002

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Date: 2/10/05

Page No.

| Test Code: | EPA TO-15 | | | Date Collected: 1/26/ | 05 |
|-----------------|----------------------------------|------------|------|-------------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert | /6890N/MS8 | | Date Received: 1/28/ | 05 |
| Analyst: | Svetlana Walsh | | | Date(s) Analyzed: 2/1/0 | 5 |
| Sampling Media: | Summa Canister | | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Test Notes: | | | | | |
| Container ID: | AC00773 | | | | |
| | | Pi 1 = | -5.3 | Pf1 = 3.5 | |
| | | | | | D.F. = 1.94 |
| | 1 | | | | |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.97 | ND | 0.38 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.97 | ND | 0.24 | |
| 79-01-6 | Trichloroethene | ND | 0.97 | ND | 0.18 | |
| 127-18-4 | Tetrachloroethene | 9.7 | 0.97 | 1.4 | 0.14 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:

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RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | SVAP-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

1.

CAS Project ID: P2500199 CAS Sample ID: P2500199-003

| Test Code: | EPA TO-15 | | Date Collected: 1/26/0 | 15 |
|--------------------------------|--|------|--------------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 | | Date Received: 1/28/0 | |
| Analyst: | Svetlana Walsh | | Date(s) Analyzed: 2/1/05 | |
| Sampling Media: Test Notes: | Summa Canister | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Container ID: | AC00206 | | | |
| | Pi 1 = | -3.1 | Pf 1 = 3.5 | |
| | | | | D.F. = 1.57 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.79 | ND | 0.31 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.79 | ND | 0.20 | |
| 79-01-6 | Trichloroethene | 3.6 | 0.79 | 0.68 | 0.15 | |
| 127-18-4 | Tetrachloroethene | 160 | 0.79 | 24 | 0.12 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Ru Verified By:

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | IAAP-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

14.9

CAS Project ID: P2500199 CAS Sample ID: P2500199-004

| Test Code: Instrument ID: Analyst: | EPA TO-15 Tekmar AUTOCAN/Agilent 5973inert/6890N Svetlana Walsh | /MS8 | | Date Collected: 1/26/ Date Received: 1/28/ Date(s) Analyzed: 2/1/0 | 05 |
|--|---|--------|------|--|---------------|
| Sampling Media: Test Notes: | Summa Canister | | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Container ID: | AC00595 | Pi 1 = | -3.8 | Pf 1 = 3.5 | |
| | | | | | D.F. = 1.67 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.84 | ND | 0.33 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.84 | ND | 0.21 | |
| 79-01-6 | Trichloroethene | ND | 0.84 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | 26 | 0.84 | 3.8 | 0.12 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: R(s

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | SVSE-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

CAS Project ID: P2500199 CAS Sample ID: P2500199-005

| Test Code: | EPA TO-15 | | | Date Collected: 1/26/05 | |
|--------------------------------|---|--------|------|--------------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert/6890N/ | MS8 | | Date Received: 1/28/05 | |
| Analyst: | Svetlana Walsh | | | Date(s) Analyzed: 2/1/05 | |
| Sampling Media: Test Notes: | Summa Canister | | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Container ID: | AC00347 | | | | |
| | | Pi 1 = | -0.5 | Pf 1 = 3.5 | |
| | | | | | DF = 1.28 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.64 | ND | 0.25 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.64 | ND | 0.16 | |
| 79-01-6 | Trichloroethene | ND | 0.64 | ND | 0.12 | 1. 1. 1. |
| 127-18-4 | Tetrachloroethene | 14 | 0.64 | 2.1 | 0.094 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro-

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | IASE-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

CAS Project ID: P2500199 CAS Sample ID: P2500199-006

Test Code: EPA TO-15 Date Collected: 1/26/05 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Date Received: 1/28/05 Analyst: Svetlana Walsh Date(s) Analyzed: 2/1/05 Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s) Test Notes: Container ID: AC00558 $P_{11} =$ -1.4 Pf1 = 3.5D.F. = 1.37

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.69 | ND | 0.27 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.69 | ND | 0.17 | |
| 79-01-6 | Trichloroethene | ND | 0.69 | ND | 0.13 | |
| 127-18-4 | Tetrachloroethene | ND | 0.69 | ND | 0.10 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation | |
|---------------------------|---------------------------------------|--|
| Client Sample ID: | SVLP-1 | |
| Client Project ID: | Apple Valley Shopping Center/AL030070 | |

CAS Project ID: P2500199 CAS Sample ID: P2500199-007

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Page No.:

Date: 2/10/05

RG

Verified By:____

| Test Code: | EPA TO-15 | | | Date Collected: | 1/26/05 |
|-----------------|--|--------|------|---------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert/6890N | I/MS8 | | Date Received: | 1/28/05 |
| Analyst: | Svetlana Walsh | | | Date(s) Analyzed: | 2/1 - 2/2/05 |
| Sampling Media: | Summa Canister | | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Test Notes: | | | | | 0.10 Liter(s) |
| Container ID: | AC00074 | | | | |
| | | Pi 1 = | -4.0 | Pf 1 = 3.5 | |
| | | | | | D.F. = 1.70 |

| CAS # | Compound | Result µg/m³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.85 | ND | 0.33 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.85 | ND | 0.21 | |
| 79-01-6 | Trichloroethene | 10 | 0.85 | 1.9 | 0.16 | |
| 127-18-4 | Tetrachloroethene | 220 | 0.85 | 32 | 0.13 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | IALP-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

CAS Project ID: P2500199 CAS Sample ID: P2500199-008

10

Date: 21005 Pige No.:

| Test Code: | EPA TO-15 | | Date Collected: 1/26 | /05 |
|-----------------|---|--------|-------------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert/6890N/ | MS8 | Date Received: 1/28 | /05 |
| Analyst: | Svetlana Walsh | | Date(s) Analyzed: 2/1/0 |)5 |
| Sampling Media: | Summa Canister | | Volume(s) Analyzed: | 0.50 Liter(s) |
| Test Notes: | | | | |
| Container ID: | AC00606 | | | |
| | | Pi 1 = | -2.2 Pf $1 = 3.5$ | |
| | | | | D.F. = 1.46 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 1.5 | ND | 0.57 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.5 | ND | 0.37 | |
| 79-01-6 | Trichloroethene | ND | 1.5 | ND | 0.27 | |
| 127-18-4 | Tetrachloroethene | 1.5 | 1.5 | 0.22 | 0.22 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:____

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RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation |
|---------------------------|---------------------------------------|
| Client Sample ID: | 0A-1 |
| Client Project ID: | Apple Valley Shopping Center/AL030070 |

CAS Project ID: P2500199 CAS Sample ID: P2500199-009

11

Date: 210 05 Page No.

RU

Verified By:____

| Test Code: | EPA TO-15 Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 | | Date Collected: 1/26/0: Date Received: 1/28/0: | |
|------------------------------|---|------|---|---------------|
| Instrument ID: Analyst: | Svetlana Walsh | | Date(s) Analyzed: 2/1/05 | |
| Sampling Media: | Summa Canister | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Test Notes: Container ID: | AC00262 | | | |
| container iD. | Pi 1 = | -1.5 | Pf 1 = 3.5 | |
| | | | | D.F. = 1.38 |

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.69 | ND | 0.27 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.69 | ND | 0.17 | |
| 79-01-6 | Trichloroethene | ND | 0.69 | ND | 0.13 | |
| 127-18-4 | Tetrachloroethene | ND | 0.69 | ND | 0.10 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS

Page 1 of 1

| Client: | Conrad Geoscience Corporation | |
|--------------------|---------------------------------------|--|
| Client Sample ID: | 0A-1 | |
| Client Project ID: | Apple Valley Shopping Center/AL030070 | |

CAS Project ID: P2500199 CAS Sample ID: P2500199-009DUP

| Test Code: | EPA TO-15 | | | Date Collected: 1/26/0: | 5 |
|--------------------------------|---|--------|------|--------------------------|---------------|
| Instrument ID: | Tekmar AUTOCAN/Agilent 5973inert/6890N/ | MS8 | | Date Received: 1/28/03 | 5 |
| Analyst: | Svetlana Walsh | | | Date(s) Analyzed: 2/1/05 | |
| Sampling Media: Test Notes: | Summa Canister | | | Volume(s) Analyzed: | 1.00 Liter(s) |
| Container ID: | AC00262 | | | | |
| | | Pi 1 = | -1.5 | Pf 1 = 3.5 | |
| | | | | | D.F. = 1.38 |

CAS # Compound Result MRL Result MRL Data μg/m³ ppbV µg/m³ ppbV Qualifier 75-01-4 Vinyl Chloride ND 0.69 0.27 ND 156-59-2 cis-1,2-Dichloroethene ND 0.69 ND 0.17 79-01-6 Trichloroethene ND 0.69 ND 0.13 127-18-4 Tetrachloroethene ND 0.69 ND 0.10

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

RESULTS OF ANALYSIS Page 1 of 1

Client:Conrad Geoscience CorporationClient Sample ID:Method BlankClient Project ID:Apple Valley Shopping Center/AL030070

CAS Project ID: P2500199 CAS Sample ID: P050201-MB

Test Code:EPA TO-15Instrument ID:Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8Analyst:Svetlana WalshSampling Media:Summa CanisterTest Notes:Test Notes:

Date Collected: NA Date Received: NA Date(s) Analyzed: 2/1/05 Volume(s) Analyzed:

1.00 Liter(s)

D.F. = 1.00

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|----------|------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 79-01-6 | Trichloroethene | ND | 0.50 | ND | 0.093 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ri-

Date: 210/05

Page No.:

Columbia Analytical Services, Inc.

| | | | Sample Acceptance Cl | heck Form | | | | |
|--------------------|-----------------------------------|------------------------|----------------------------------|---------------------------|----------------------|------------------------|--------------|--------------|
| Clien | t: Conrad Geoscience | Corporation | | Work order: | P2500199 | | | |
| Projec | t: Apple Valley Shopp | ing Center/AL030 | 070 | | | 1.15 | | |
| | Sample(s) received or | n: 1/28/05 | Date opened | : 1/28/0 | 5 by: | SM | - | |
| Note: Th | is form is used for all samples r | eceived by CAS. The us | e of this form for custody seals | is strictly meant to indi | cate presence/absend | e and not as | an indicat | on of |
| | e or nonconformity. Thermal j | | | | | | | |
| | | | | | | Yes | No | N/A |
| 1 | Were custody seals on | outside of cooler/B | ox? | | | | X | |
| | Location of seal(s)? | | | | Sealing Lid? | | | X |
| | Were signature and d | late included? | | | _ sound bid. | | | X |
| | Were seals intact? | inte literatera. | | | | | | X |
| | Were custody seals on | outside of sample of | ontainer? | | | | X | |
| | Location of seal(s)? | outside of sumpre of | SALVALES . | | Sealing Lid? | | | \mathbf{X} |
| | Were signature and d | late included? | | | _ Geaning Lid? | | | \mathbf{X} |
| | Were seals intact? | ate mended: | | | | | | X |
| 2 | Were sample containe | ers properly marked | with client cample ID? | | | | | |
| 3 | Did sample containers | | * | | | | | |
| 4 | Were chain-of-custody | 0 | | | | | | |
| 5 | | | gree with custody papers? | | | | | |
| 6 | Was sample volume re | | | | | | | |
| 7 | Are samples within spe | - | | | | X | | |
| 8 | - | • | | 11 1 1 0 | | \mathbf{X} | | |
| 0 | | | ation) of cooler at receipt | | | | | X |
| | | Cooler Temperature | | °C | | | | |
| | In all (and a) | Blank Temperature | | °C | | _ | | _ |
| 9 | | | ding to method/SOP or C | | mation? | | \mathbf{X} | |
| | | | ed samples are pH (acid) | preserved? | | | | \mathbf{X} |
| | Were VOA vials check | | | | | | | X |
| 10 | | | ie analyst check the samp | le pH and if neces | sary alter it? | | | \mathbf{X} |
| 10 | | the tubes capped and | | | | | | X |
| | | ney contain moisture | | | | | | X |
| 11 | | the badges properly | | | | | | X |
| | Are d | hual bed badges sepa | rated and individually ca | pped and intact? | | | | X |
| | Lab Sample ID | Required | pН | VOA Headspace | l n | | | |
| | | pH | (as received, if required) | (Presence/Absence) | Rece | ipt / Prese Comment | | |
| P250019 | 9-001 | | | NA | | | | |
| P250019 | | | | NA | | | | |
| P250019 | | | | NA | | | | |
| P250019 | | | | NA | | | | |
| P250019 P250019 | | | | NA | | | | |
| P250019 P250019 | | | | NA | | | | |
| P250019 | | | | NA · NA | | | | |

NA

Explain any discrepancies: (include lab sample ID numbers):

P2500199-009

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| Analytical Analytical Analytical Services No. Analytical Marging Information (Company Name & Address) CONTAC GEOSCIENCE Beaver United General Attention: Contact Brian Goodwin Attention: Brian Goodwin Attention: Case of Business Day (Surcharges) Please Circle: CAS Project No. 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (15%) 10 Day-Standard CAS Contact: P.O. # / Billing Information Same Project Name Apple Valley Shopping Center | | Chain of Custody Record & Analytical Service Request Page of | | | | | | | | | | | |
|---|---|--|--|--|--|---|--|--|------------|------------|------------------|---------------|---|
| The standards Fex (805) 526-7270 P.C. # / Billing information Company information Comment Same information Company information Comment | Columbia Analytical 2665 Park Center Drive, Suite D Simi Valley, California 93065 | | | | Requested Turnaround Time by Close of Business Day (Surcharges) Please Circle: | | | | | | | | |
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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 15Man (200 |) divin | | | | Apple | alley Shopf | oing Lenter | | | | | Comments |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Phone 845-454-2544 | Fax | -26: | 55 | Project Num | hber ALOS | 30070 | 0 | 5 | | | | e.g. Preservative or specific instructions |
| Client Sample ID Date Collected Time Sample No. Lab Sample No. Sample No. | Email Address for Result Repo | rtina | | | Sampler (Pr | int & Sign) | 0 · 0 H | 1 | Q | | | | |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0 | Date | Time | | Sample Type (Air/Liquid | Canister ID | Flow Controller | Sample | EPA | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | SUET-1 | 1-71.01 | 12 66 | - | | TA . | V | 61 | X | | | | |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 1-26-05 | | -3 | | | | | X | | | ļ | |
| 1A56-1 1-26-05 1058 -Cp Ain AC00558 FC00484 6L X SNLP-1 1-26-05 1150 -7 Air AC00074 FC0090 6L X TALP-1 1-26-05 1152 -8 Air AC00066 FC00394 6L X 0A-1 1-26-05 1152 -8 Air AC000762 FC00460 6L X 0A-1 1-26-05 1350 -9 Air AC00762 FC00460 6L X 0A-1 1-26-05 1350 -9 Air AC00762 FC00460 6L X 10 1 1 1 1 1 1 1 1 10 1 <td>IAAP-1</td> <td>1-26-05</td> <td>1336</td> <td>-4</td> <td>Air</td> <td>AC00595</td> <td>and the second sec</td> <td></td> <td>X</td> <td>1</td> <td></td> <td></td> <td></td> | IAAP-1 | 1-26-05 | 1336 | -4 | Air | AC00595 | and the second sec | | X | 1 | | | |
| 1A56-1 1-26-05' 1058 -Co Ain Ac00558 FC00484 * 6L X | SVSE-1 | 1-26-05 | 1057 | -5- | Air | AC00347 | FC00094 | 6L . | X | ŀ | | | |
| SNLP-1 1-26-05* 1150 -7 Air Ac00074 FL0090* 6L X | | 1-26-05 | 1058 | -6 | Ain | AC.00558 | FC00484 1 | 61 | X | | | | |
| TALP-1 /-22-05 //52 -8 Air Ac00606 FC00394 61 X 0A-1 /-26-05 //350 -9 Air Ac00762 FC00460 61 X | GILP-1 | The second | Ce2.1 | 1-7 | | | | / | X | | | | |
| OA-1 1-26-61 1350 -9 Air Acoo762 FC.00480 6L X Image: A contract of the second s | | | | -8 | | | | 1 | X | | 1 | | |
| Report Tier Levels - please select | | 1 1 1 1 1 | | | | Kanzo | EL DOUR ON | | Ŷ | | | | |
| Report Tier Levels - please select | 04-1 | 1-26-05 | 1350 | -7 | AI | AC00.662 | FLUUTOU | 66 | | | | | |
| Report Tier Levels - please select | | | | | | | | | | | | | |
| Report Tier Levels - please select | | 11 | | | | | | | | | | | |
| Report Tier Levels - please select Tier III (QC, Raw Data, Spectra) 10% Surcharge EDD required Yes / No See Quote #Q24N Tier II (QC forms) Other Time: Reference for the control of the con | F | | | | | | | | | | | | |
| The point file Levels - please select Tier III (QC, Raw Data, Spectra) 10% Surcharge EDD required Yes / No See Quot #Q24 Tier III (QC forms) Other Time: Received by: (Signature) Time: See Quot #Q24 Relinquished by: (Signature) Date: Time: Received by: (Signature) Pate: Time: Ci5-1, 2-dichloroethy! Relinquished by: (Signature) Date: Time: Received by: (Signature) Date: Time: Ci5-1, 2-dichloroethy! | Depend Ties Levels - places and | l l | | | L | 1 | | | L | | | Project Page | irements (MRI = OAP |
| Belinquished by: (Signature) Date: Time: Received by: (Signature) Malore Pate: Time: Only report pCE, I Blan P. Joodwin 1-27-05 17:00 Phone Malore 126/05 11:00 Ci5-1, 2-dichloroethyl Relinquished by: (Signature) Date: Time: Received by: (Signature) Date: Time: And Vinyl Chloride | Tier I - (default if not specified) | | | , Raw Data, S | Spectra) 10% | Surcharge | | | Yes / No | | | See Qu | 10HC #Q240111 |
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