



Soil Vapor Assessment Report Cave Creek Landfills

**Maricopa County Risk
Management Department
222 North Central Avenue
Suite 1110
Phoenix, Arizona 85004**

**July 8, 2005
10.203045.01**

SCS ENGINEERS

SCS ENGINEERS

July 8, 2005
File No. 10.203045.01

Ms. Rita Neill
Maricopa County
Risk Management Department
222 North Central Avenue, Suite 1110
Phoenix, Arizona 85004

Subject: Soil Vapor Assessment Report
Cave Creek Landfills
3955 East Carefree Highway
Phoenix, Arizona

Dear Rita:

SCS Engineers (SCS) is pleased to submit this soil vapor assessment report summarizing the activities performed at the Cave Creek Landfills located at 3955 East Carefree Highway in Phoenix, Arizona.

SCS appreciates the opportunity to assist you with this project. Should you have any questions regarding this submittal, please contact either of the undersigned at (602) 840-2596.

Sincerely,



Brian Gould
Staff Geologist



Bradley F. Johnson, R.G.
Vice President
SCS ENGINEERS

Attachment

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**SOIL VAPOR ASSESSMENT REPORT
CAVE CREEK LANDFILLS
3955 EAST CAREFREE HIGHWAY
CAVE CREEK, ARIZONA**

JULY 8, 2005

BACKGROUND

SCS Engineers (SCS) was requested to perform environmental engineering services associated with a soil vapor assessment of the Cave Creek Landfills located at 3955 East Carefree Highway in Phoenix, Arizona (site). The site consisted of the Old Cave Creek Landfill located on Bureau of Land Management (BLM) property and the New Cave Creek Landfill located on Maricopa County property. A Site Location Map is provided as Figure 1 in Attachment A. A Site Plan identifying the location of the probes in which the investigation was conducted is provided as Figure 2 in Attachment A.

The scope of the investigation included the following activities:

- Installation and sampling of deep soil vapor probes in the Old Cave Creek Landfill;
- Installation and sampling of deep soil vapor probes in the New Cave Creek Landfill; and
- Soil vapor sampling of existing perimeter monitoring probes at the New Cave Creek Landfill.

INVESTIGATION ACTIVITIES

Overview

To evaluate whether VOCs are migrating out of the landfills into the vadose zone, SCS performed a soil vapor survey of the soil profile beneath the landfill bases. Permanent vapor monitoring probes were installed at four locations beneath the Old Landfill and two locations beneath the New Landfill. These probes were then sampled twice for VOCs. Vapor samples were also collected from existing shallower perimeter probes located at the New Landfill.

Deep Soil Vapor Survey of Old Landfill

Probe Installation

Permanent vapor monitoring probes were installed at four locations beneath the landfill area between November 5 and 15, 2004. As shown on Figure 2, Probe ODP-1 was installed in the northeast quarter of the landfill area, ODP-2 was installed in the northwest quarter, ODP-3 was installed in the southwest quarter, and ODP-4 was installed in the southeast quarter.



WDC Exploration and Wells (WDC) was retained by SCS to drill and install the vapor monitoring probes. The borings for the probes were drilled to a depth of 140 feet below ground surface with an air-rotary casing hammer drill rig. This driven-casing method of drilling was used since it essentially creates a seal during drilling, which minimized the potential that leachate (if present) at the base of the landfill could have migrated down the borehole during drilling. The casing was driven at least 20 feet below the bottom of the landfill at each probe location. As a secondary precaution, the moisture content of trash at the base of the landfill was monitored for free liquid during drilling. No free liquids were observed.

The bottom of the landfill was encountered at 15 feet below ground surface at ODP-1, 20 feet below ground surface at probes ODP-2 and ODP-3, and 17 feet below ground surface at ODP-4. The landfill trash encountered by the borings included paper, plastic, and landscape debris at each probe location. Soils encountered beneath the landfill consisted of sandy gravel with cobbles from the bottom of the landfill to approximately 140 feet below ground surface at each probe location. The drill cuttings were used to classify the soil in accordance with the Unified Soil Classification System (USCS). Boring logs are provided in Attachment B.

Each probe location contained two 1-inch diameter PVC casings, nested in a common borehole. These casings had a 10-foot long perforated interval; one casing was perforated between 80 and 90 feet below ground surface and the other was perforated between 130 and 140 feet. The top of each casing was fitted with laboratory petcocks. The two perforated zones were set in a filter pack of 8-12 silica sand, and were separated by a bentonite seal approximately 28 feet thick. A bentonite and concrete seal was placed extending from the ground surface to the top of the upper filter pack at approximately 70 feet below ground surface to ensure that the probe did not act as a potential conduit for vertical migration of liquids or vapor from the landfill. Probe construction details are shown on the boring logs in Attachment B.

Soil Vapor Sampling

Two vapor sampling events were performed on November 18, 2004 and December 8, 2004. Initial monitoring of the probes was performed using a photoionization detector (PID) to determine whether significant concentrations of VOCs were present during the initial sampling event. VOC readings detected by the PID were insignificant, with the highest reading being approximately 1 to 2 units above background. Pressure/vacuum readings were also collected from selected probes during the second sampling event. Most probes exhibited a very slight vacuum when the petcock was opened.

The first sampling event was performed on November 18, 2004. The probes were purged of one to two well volumes prior to sampling. The purge volume was established by performing a longer purge time (approximately 5 volumes) on one probe several days before the sampling event, while monitoring VOCs with the PID. Because significant VOCs were not detected during this monitoring, a default value of one casing volume was used for purging of all probes.

SCS collected the vapor samples into Tedlar bags using a vacuum box connected to a vacuum pump. One vapor sample was collected from each casing (representing different depth intervals) at each probe location. The samples were labeled with a unique identification code, logged onto a chain-of-custody (COC) form, and hand delivered to TransWest Geochem, a certified Arizona



Department of Health Services (ADHS) laboratory (license number AZ0133). The vapor samples were analyzed for volatile organic compounds (VOCs) by EPA Test Method 8260B.

Analytical Results

A summary of the laboratory results is provided in Table 1, Attachment C, and results are shown on Figure 2, Attachment A. Complete laboratory reports are provided in Attachment D.

Results from the first sampling event, performed approximately five days after the last probe was installed at the Old Landfill, detected Tetrachloroethene (PCE) above the method reporting limit at 90 feet in probes ODP-1, ODP-3, and ODP-4, and at 140 feet in probes ODP-3 and ODP-4. 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) was detected at the reporting limit at 90 feet in probe ODP-4.

The second sampling event, performed 24 days after the last probe was installed at the Old Landfill, detected PCE above the method reporting limit at 90 feet and 140 feet in probe ODP-3. 1,1-Dichloroethene (1,1-DCE) was detected above the reporting limit at 90 feet in probe ODP-1.

Deep Soil Vapor Survey of New Landfill

Probe Installation

Four probes were initially proposed for the New Landfill, but during probe installation activities, Maricopa County Risk Management elected to install only two probes based on information received from the Arizona Department of Environmental Quality (ADEQ). The two vapor monitoring probes were installed between November 1 and 4, 2004. Probe NDP-1 was installed at the north end of the landfill between existing landfill gas wells GW-30 and GW-2. Probe NDP-2 was installed 440 feet south of NDP-1 between existing wells GW-27 and GW-5.

The probes were installed in the same manner as those installed at the Old Landfill. The drill casing was driven 70 feet below ground surface and at least 10 feet below the bottom of the landfill at each probe location, and the total depth of both borings was 140 feet below ground surface. The bottom of the landfill was 38 feet below ground surface at NDP-1 and 58 feet below ground surface at NDP-2. The landfill trash encountered by the borings consisted of paper, plastic, manure, and landscape debris at both probe locations. Soils encountered beneath the New Landfill consisted of sandy gravel with cobbles from the bottom of the landfill to approximately 140 below ground surface at each probe location.

The probes were constructed to the same specifications those installed at the Old Landfill, as described above.

Soil Vapor Sampling

The probes were monitored, purged, and sampled in the same manner as at the Old Landfill, as described above. The two sampling events were performed on November 16, 2004 and December 8, 2004.



Analytical Results

A summary of the laboratory results is provided in Table 1, Attachment C, and results are shown on Figure 2, Attachment A. Complete laboratory reports are attached as Appendix D.

Results from the first sampling event, performed approximately five days after the last probe was installed at the New Landfill, detected PCE above the method reporting limit at 90 feet in probe NDP-1, and at 140 feet in probe NDP-2. Trichloroethene (TCE) was detected above the reporting limit at 90 feet in probe NDP-1 and at 140 feet in probes NDP-1 and NDP-2.

The second sampling event, performed 24 days after the last probe was installed at the New Landfill, detected PCE and TCE above the method reporting limit at 90 feet and 140 feet in probes NDP-1 and NDP-2. Vinyl Chloride (VC) was detected above the reporting limit at 140 feet in probe NDP-1. Dichlorodifluoromethane (DDFM) was detected above the reporting limit at 140 feet in probe NDP-2. 1,1 Dichloroethane (1,1 -DCA) was detected above the reporting limit at 140 feet in probe NDP-2.

The third sampling event, performed six months after the second sampling event, detected PCE, DDFM, and TCE above the method reporting limit at 90 feet and 140 feet in probes NDP-1 and NDP-2. cis-1,2 -Dichloroethene (1,2-DCE) was detected above the reporting limit at 90 and 140 feet in probe NDP-1. 1,1-DCA was detected above the reporting limit at 140 feet in probes NDP-1 and NDP-2. Toluene was detected above the reporting limit at 90 and 140 feet in probe NDP-1. Trichlorofluoromethane (TCFM) was detected above the reporting limit at 90 and 140 feet in probe NDP-2.

VOC Sampling of Existing Probes at New Landfill

SCS sampled the existing landfill gas monitoring probes that are located around the New Landfill on November 15 and 16, 2004. SCS sampled 10 deep (approximately 50 feet) and 10 shallow (approximately 20 feet) landfill gas monitoring probes. Deep probes P-3 and P-9 were not sampled due to well casing damage.

The probes were monitored, purged, and sampled as described in the *Deep Soil Vapor Survey of Old Landfill*.

Analytical Results

Results from the sampling event detected TCE above the method reporting limit at 20 feet in probes P-10 and P-13 and at 50 feet in probes P-11, P-22, and P-25. DDFM was detected above the reporting limit at 20 feet in probe P-18 and at 50 feet in probe P-5. PCE, 1,2 -DCE, and 1,1 -DCA were detected above the reporting limit at 50 feet in probe P-5.



CONCLUSIONS

Findings

Groundwater beneath the landfills has been impacted by VOCs, namely TCE, DCE, and toluene. This soil vapor survey identified detectable VOCs beneath both landfills, but it is not known for certain whether these vapors are indicative of a release that may have affected groundwater. Evaluation of the potential source of groundwater impacts considered the following information:

- Soil conditions below the landfill: If high permeability soils (sand, gravel, cobbles) comprise the entire soil column above groundwater, such conditions would favor the vertical migration of LFG and/or leachate through soils.
- Landfill conditions: The unlined portions of the landfills have no physical barrier to limit potential migration of LFG and/or leachate from the landfills into surrounding soils.
- Land uses around the landfill: Because the landfill is located in an area where there is little commercial or industrial development, an off-site source of contamination does not appear likely.
- Depth to groundwater: Given the relatively large depth to groundwater (reportedly up to 700 feet) and the resulting relatively small amount of leachate produced due to low precipitation, it is not likely that leachate has impacted groundwater.
- Groundwater quality distribution: Both upgradient and downgradient wells appear to be impacted by VOCs. A liquid source would not likely display this distribution, but contamination associated with LFG tends to affect a wider area in this manner.
- Leachate and groundwater chemistry: Comparison of analytical results from leachate and groundwater sampling does not show conclusive similarities.
- Soil vapor and groundwater chemistry: TCE, DCE, and toluene have been detected in both soil vapor and groundwater samples from the site.

Based on this information, it does not appear that landfill leachate is the source of impacts to groundwater beneath the site. However, landfill gas, which typically contains trace amounts of VOCs, could be the source of groundwater impacts. Vapors can migrate away from a landfill by diffusion and pressure gradient flow. These dispersal mechanisms can allow LFG to impact groundwater upgradient and crossgradient from a landfill, as well as downgradient. Contaminants in LFG may be transferred to a liquid phase and then be transported by infiltration across the capillary fringe to groundwater.

Comparison to Similar Sites

These findings were also compared to similar arid landfill sites. A landfill in Tucson, Arizona was operated between the 1960s and 1980s; precipitation and subsurface geology were similar to the Cave Creek landfills, and groundwater was approximately 240 below ground surface (bgs).



PCE and other halogenated VOCs were detected in the vadose zone beneath the landfill, and a groundwater contamination plume extended approximately 1,500 feet downgradient of the landfill. Concentrations of PCE ranged from approximately 4 to 570 ug/L in gas samples collected from the vadose zone beneath the landfill and approximately 5 to 50 ug/L in groundwater. Evidence of leachate migration was not identified, such as increased concentrations of TDS and chlorides. A transport model was developed, which indicated that soil gas concentrations could produce groundwater concentrations exceeding maximum contaminant levels (MCLs) due to vapor transport mechanisms, even in the absence of significant vertical soil water movement. A soil vapor extraction system to remove vapors from beneath the landfill has been implemented.

At a small, arid landfill in Elsinore, California, relatively small volumes of LFG were observed. However, VOC contamination in the groundwater appeared to be due to migration of LFG from the landfill. VOCs including TCE, DCA, PCE, vinyl chloride, and benzene were identified in a production well upgradient of the landfill. Installation of LFG extraction wells and LFG management has significantly reduced or eliminated LFG migration at the landfill.

At a landfill in Los Angeles, California, groundwater occurred at a depth of over 200 feet bgs, and the saturated and unsaturated zones consisted of cobbles. VOCs and increased alkalinity were detected in landfill groundwater monitoring wells located upgradient, downgradient, and crossgradient. LFG was postulated to be the source of VOC contamination in the groundwater, and concentrations decreased after upgrading the LFG collection system.

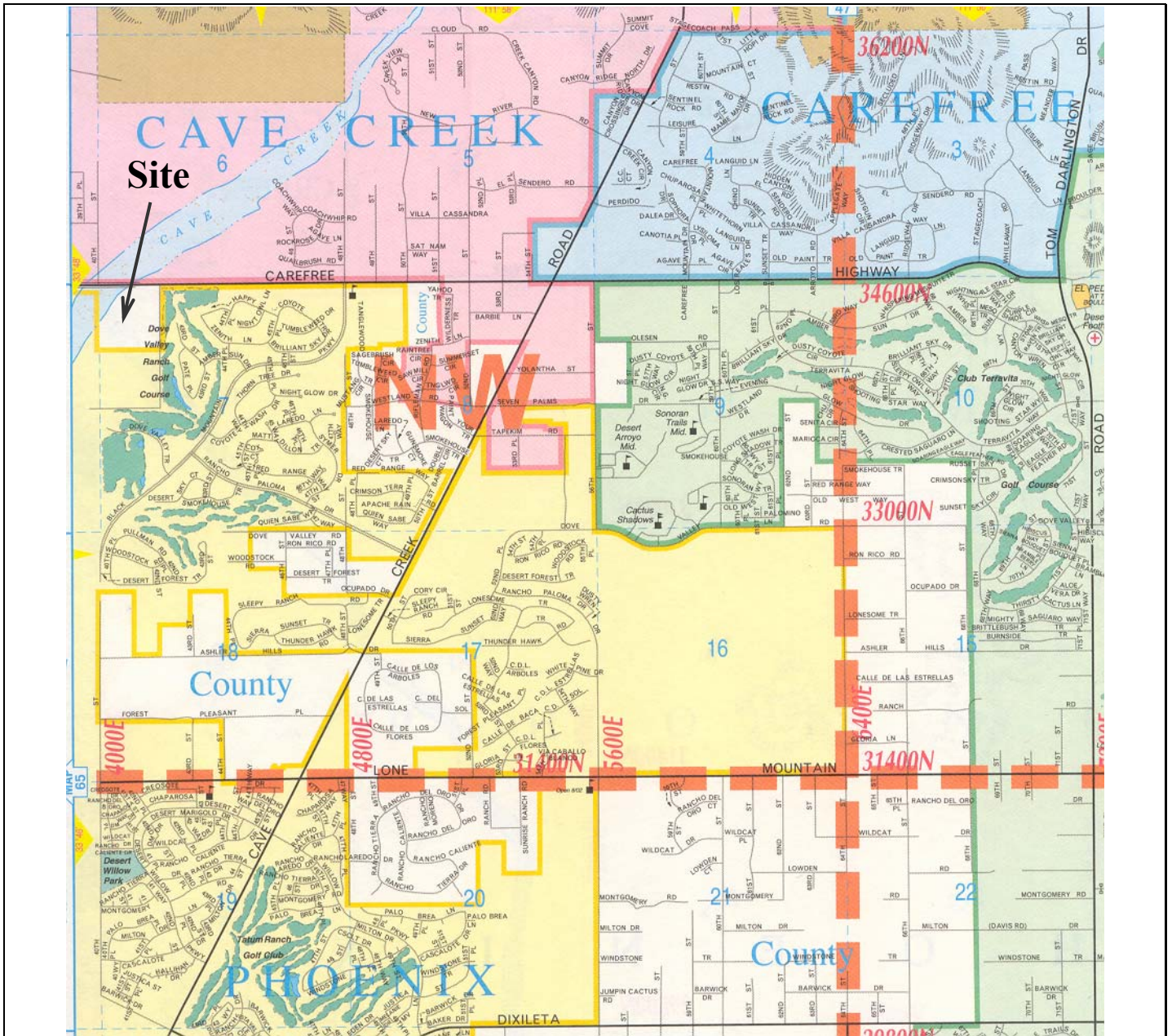
RECOMMENDATIONS

Based on the findings of this investigation and comparison to similar sites, it is possible that VOCs in groundwater beneath the site are associated with LFG generated by the landfills. SCS recommends that the recently-restarted LFG control system at the New Cave Creek Landfill be optimized to minimize the amount of LFG released from that landfill. It should be noted that the most recent sampling event indicated an increase in the concentration and variety of VOCs had occurred since the LFG control system was refurbished and overhauled, but this change is likely due to the effects of significant rainfall that occurred prior to the sampling event. After monitoring the effect of the LFG control system on vapor and groundwater concentrations for a period of one year, implementation of a similar control strategy at the Old Landfill should be considered.



ATTACHMENT A

FIGURES



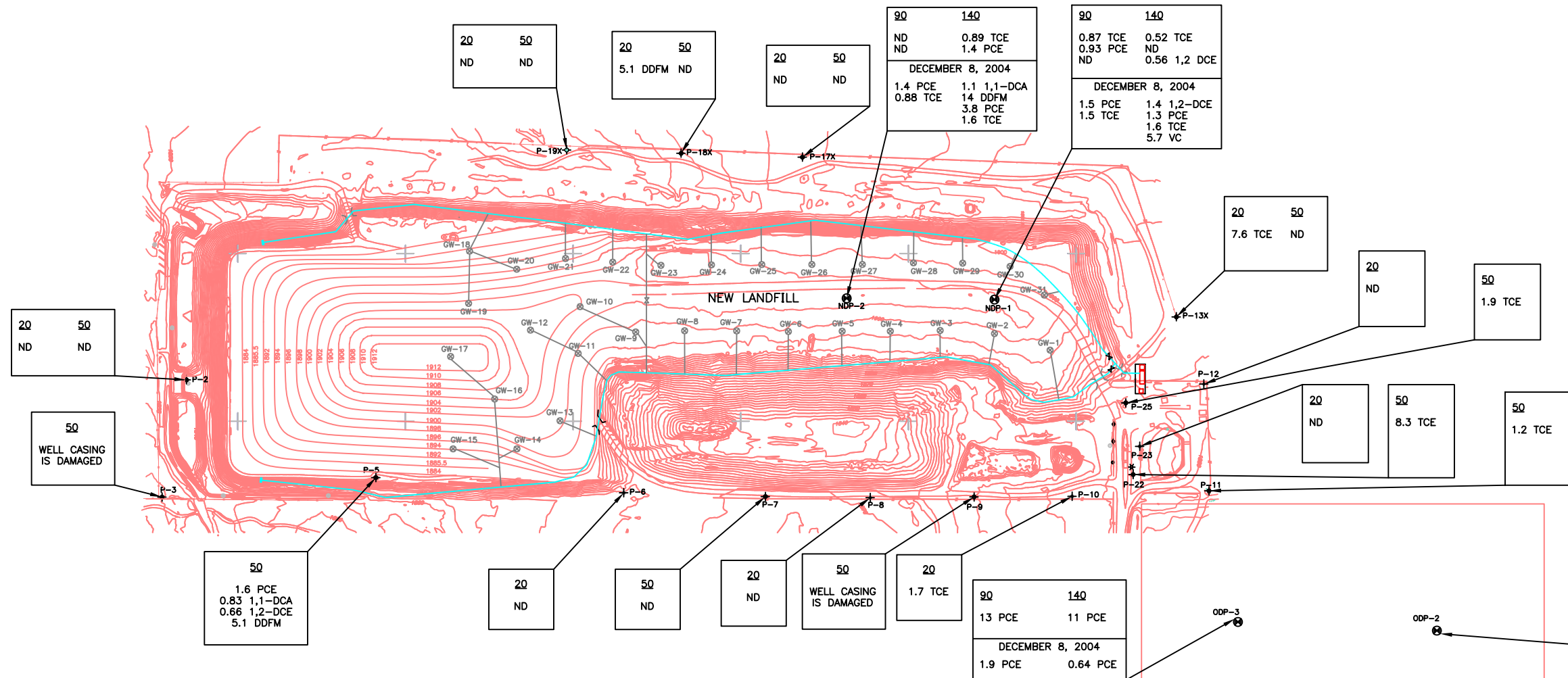
Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

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Site Location Map
 Cave Creek Landfills
 3955 East Carefree Highway
 Cave Creek, Arizona

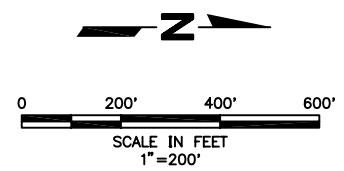
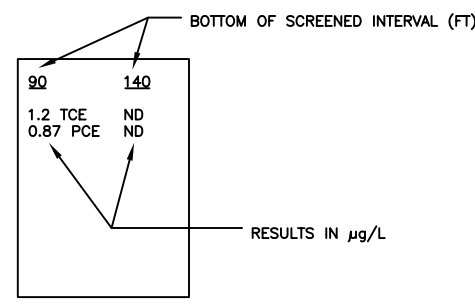
Project Number:
 10.203045.01

Figure 1



- NOTES:
1. BASE MAP SOURCE: MARICOPA COUNTY SOLID WASTE DEPARTMENT
 2. LOCATION OF LFG SYSTEM COMPONENTS SHOWN MAY BE FIELD ADJUSTED BY ENGINEER IF FIELD CONDITIONS NECESSITATE.
 3. ALL SAMPLES COLLECTED NOVEMBER 15, 16 AND 18, 2004 UNLESS OTHERWISE NOTED

- EXPLANATION**
- LFG HEADER
 - LFG LATERAL
 - LFG WELL
 - ROAD CROSSING
 - NEW DUAL-ZONE PROBE WELL
 - SHALLOW PERIMETER PROBE
 - DEEP PERIMETER PROBE
 - EXISTING DUAL-ZONE PERIMETER PROBE
 - TCE TRICHLOROETHENE
 - VC VINYL CHLORIDE
 - PCE TETRACHLOROETHENE
 - 1,1-DCA 1,1-DICHLOROETHANE
 - 1,2-DCE CIS1,2-DICHLOROETHENE
 - 1,1-DCE 1,1-DICHLOROETHENE
 - DDFM DICHLORODIFLUOROMETHANE
 - 1,1,2,2-PCA 1,1,2,2-TETRACHLOROETHANE



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Figure 2 - Soil Vapor Sampling Results
Cave Creek Landfills
Maricopa County Risk Management
222 North Central Avenue
Phoenix, Arizona 85004

Project Number
10.203045.01

Figure 2

ATTACHMENT B

BORING LOGS AND PROBE CONSTRUCTION DIAGRAMS

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-1

Page 1 of 3

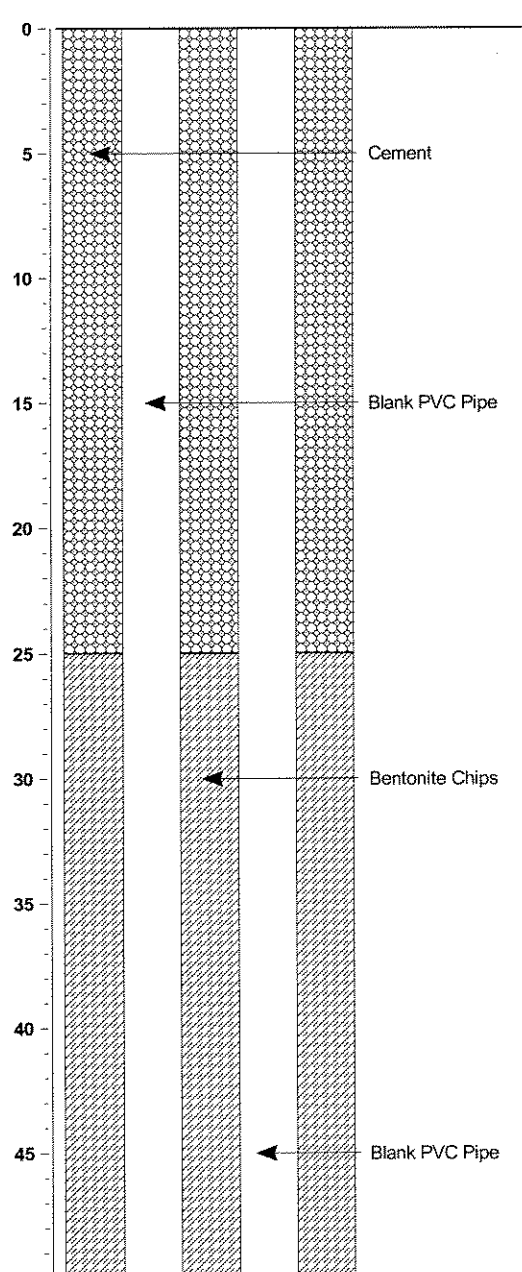
Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth	Graphic Log	Description	Comments	Completion Detail
0		Landfill cover		
2				
4		Paper, cardboard, debris, dry		
6				
8				
10				
12				
14				
16		Paper, cardboard, yarn, plastic, slightly moist		
18				
20				
22				
24				
26		Paper, wood (landscape debris), cardboard, plastic, black organic material, slightly moist		
28				
30				
32				
34				
36		Paper, wood (landscape debris), cardboard, plastic, black organic material, rubber, slightly moist		
38				
40		Bottom of landfill, slightly moist Sandy GRAVEL, grey, slightly moist		
42				
44				
46				
48				
50				



PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/10/05

Drilling Company: **WDC**
 Drilling Method: **Air Rotary**
 Logged By: **Brian Gould**
 Sampling Method: **None**

Date Started: **11/1/04** Time Started: **12:00 am**
 Date Ended: **11/2/04** Time Ended: **12:00 am**
 Boring Diameter:
 Total Depth: Depth to Water:

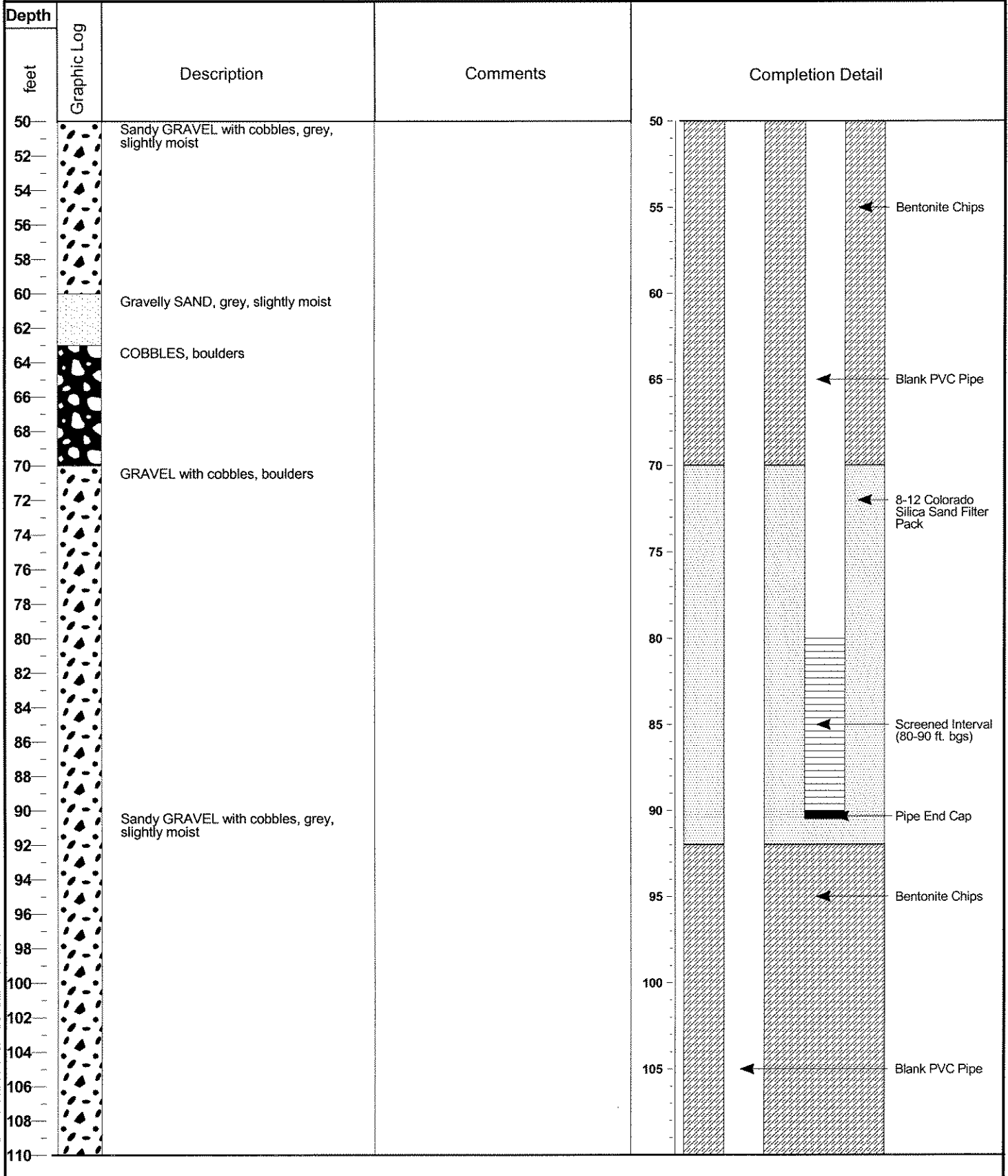
2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-1

Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8



PHOENIX WELL LOG CAVE CREEK GP.J LOSREAL_GDT 1/10/05


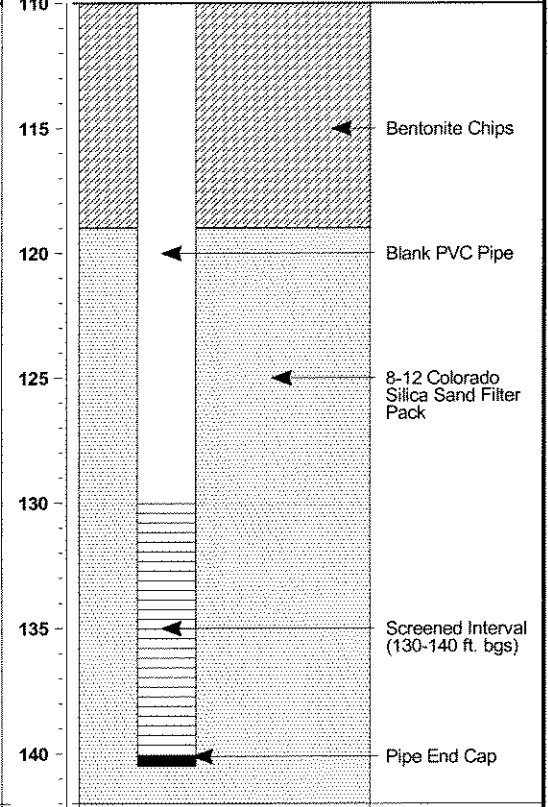
2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-1

Page 3 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110		<p>GRAVEL, grey, slightly moist</p> <p>Sandy GRAVEL, grey, slightly moist</p>		 <p>Bentonite Chips</p> <p>Blank PVC Pipe</p> <p>8-12 Colorado Silica Sand Filter Pack</p> <p>Screened Interval (130-140 ft. bgs)</p> <p>Pipe End Cap</p>
112				
114				
116				
118				
120				
122				
124				
126				
128				
130				
132				
134				
136				
138				
140				
142				
144				
146				
148				
150				
152				
154				
156				
158				
160				
162				
164				
166				
168				
170				

PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/1/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-2

Page 1 of 3

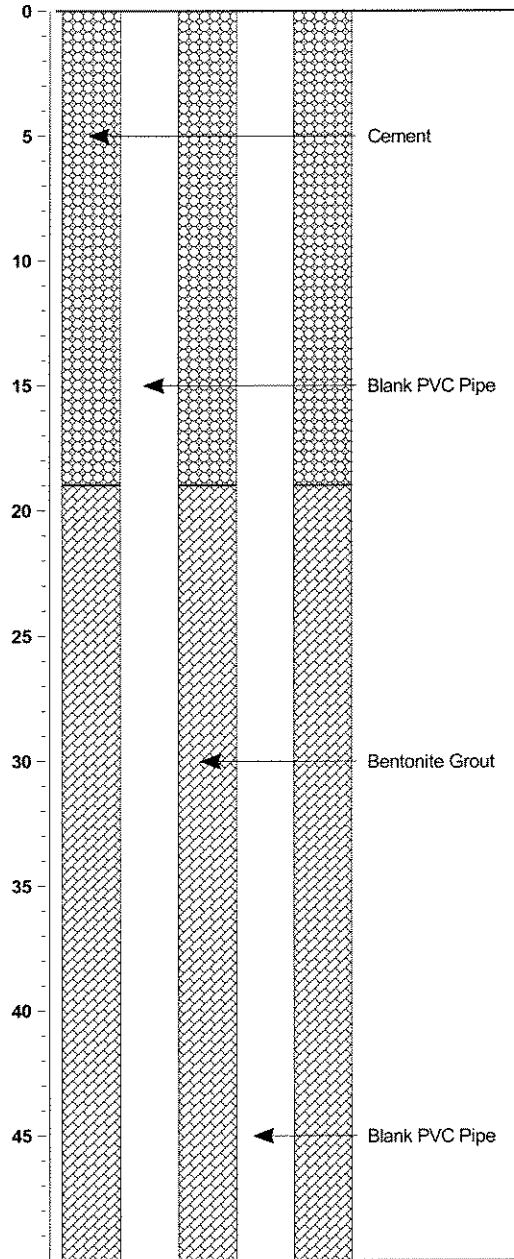
Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth feet	Graphic Log	Description	Comments	Completion Detail
0		Landfill cover		
2				
4				
6		Paper, cardboard, debris, dry		
8				
10				
12				
14				
16		Paper, cardboard, yarn, plastic, slightly moist		
18				
20				
22				
24				
26		Paper, wood (landscape debris), cardboard, plastic, black organic material, slightly moist		
28				
30				
32				
34				
36		Paper, wood (landscape debris), cardboard, plastic, black organic material, rubber, slightly moist		
38		Bottom of landfill, slightly moist		
40		Sandy GRAVEL, grey, slightly moist		
42				
44				
46				
48				
50				



PHOENIX WELL LOG, CAVE CREEK.GPJ, LOSREAL.GDT, 1/10/05

Drilling Company: **WDC**
 Drilling Method: **Air Rotary**
 Logged By: **Brian Gould**
 Sampling Method: **None**

Date Started: **11/3/04** Time Started: **12:00 am**
 Date Ended: **11/4/04** Time Ended: **12:00 am**
 Boring Diameter:
 Total Depth: Depth to Water:

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-2

Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth	Graphic Log	Description	Comments	Completion Detail
50		Sandy GRAVEL with cobbles, grey, slightly moist		
52				
54				
56				
58				
60		Gravelly SAND, grey, slightly moist		
62				
64		COBBLES, boulders		
66				
68				
70		GRAVEL with cobbles, boulders		
72				
74				
76				
78				
80				
82				
84				
86				
88				
90		Sandy GRAVEL with cobbles, grey, slightly moist		
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				

PHOENIX WELL LOG_CAVECREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: NDP-2

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Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 166 168 170		GRAVEL, grey, slightly moist Sandy GRAVEL, grey, slightly moist		<p>110 115 120 125 130 135 140</p> <ul style="list-style-type: none"> ← Bentonite Chips ← Blank PVC Pipe ← 8-12 Colorado Silica Sand Filter Pack ← Screened Interval (130-140 ft. bgs) ← Pipe End Cap

PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-1

Page 1 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth	Graphic Log	Description	Comments	Completion Detail
0		Landfill cover		
2				
4				
6		Paper, plastic, manure		
8				
10				
12				
14				
16				
18		Bottom of Landfill Sandy GRAVEL with cobbles, grey, slightly moist		
20				
22				
24				
26				
28				
30		GRAVEL with cobbles, grey, slightly moist		
32				
34				
36				
38				
40				
42				
44				
46		Sandy GRAVEL with cobbles, grey, slightly moist		
48				
50				

Drilling Company: WDC	Date Started: 11/8/04	Time Started: 12:00 am
Drilling Method: Air Rotary	Date Ended: 11/9/04	Time Ended: 12:00 am
Logged By: Brian Gould	Boring Diameter:	Depth to Water:
Sampling Method: None	Total Depth:	

PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-1

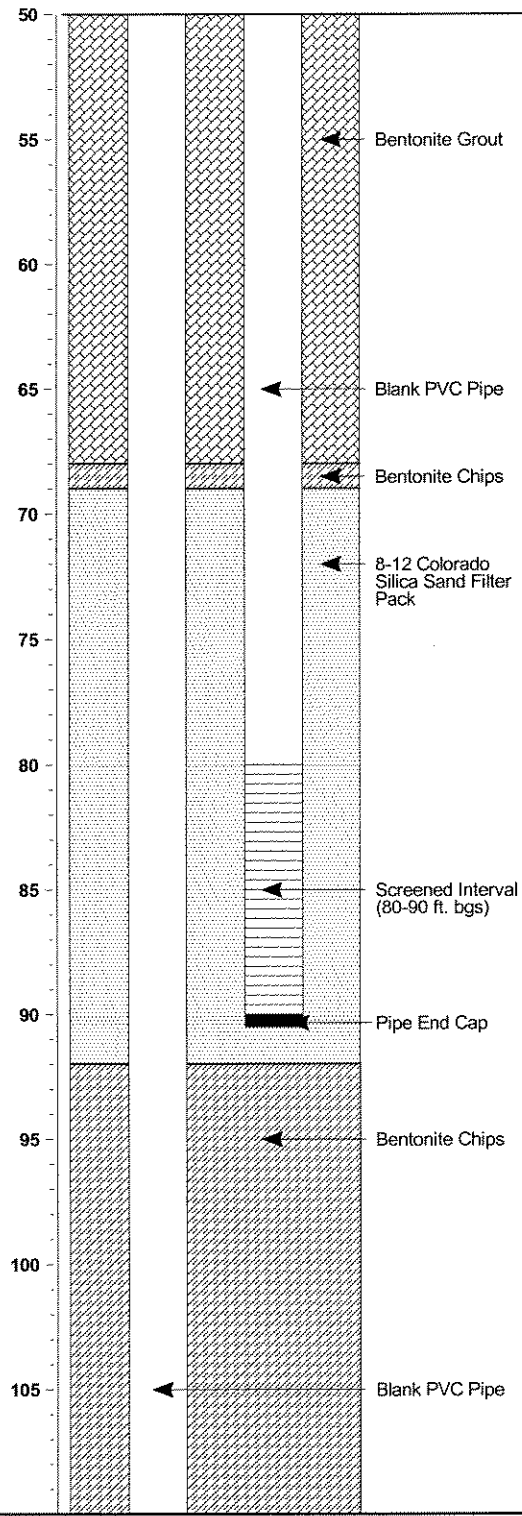
Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
50				
52				
54				
56				
58				
60		Sandy GRAVEL with cobbles, grey, slightly moist		
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90		Sandy GRAVEL with cobbles, grey, slightly moist		
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				

PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/10/05



2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-1

Page 3 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110		Sandy GRAVEL with cobbles, grey, slightly moist		
112				
114				
116				
118				
120				
122				
124				
126				
128				
130				
132				
134				
136				
138				
140				
142				
144				
146				
148				
150				
152				
154				
156				
158				
160				
162				
164				
166				
168				
170				

PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-2

Page 1 of 3

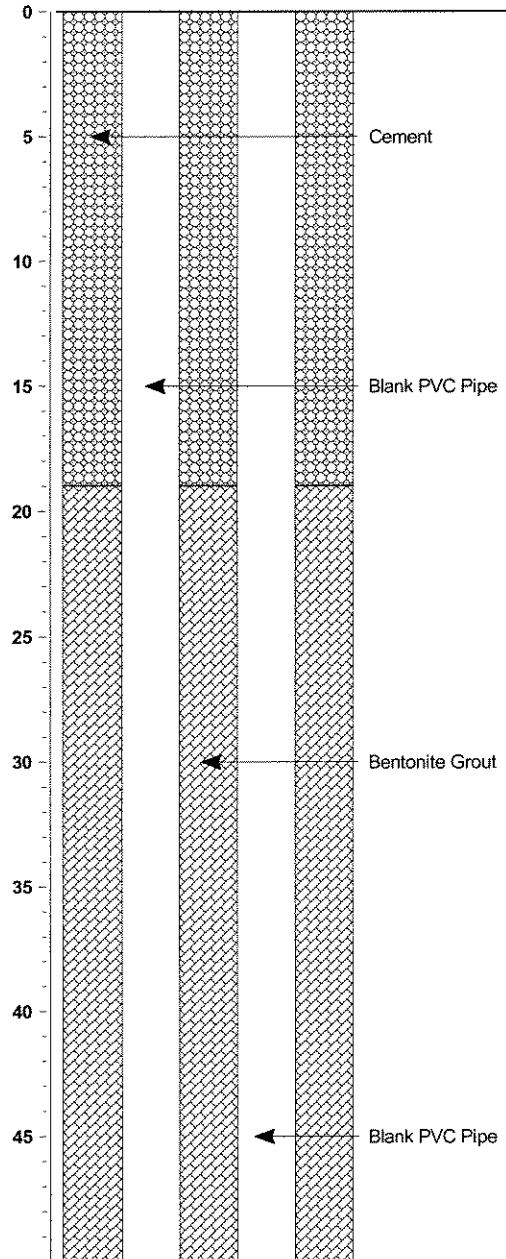
Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth	Graphic Log	Description	Comments	Completion Detail
0		Landfill cover		
2				
4		Paper, slightly		
6				
8				
10				
12				
14				
16				
18				
20		Bottom of Landfill Sandy GRAVEL with trace cobbles, grey, slightly moist		
22				
24				
26				
28				
30				
32				
34				
36		Grades to cobbles		
38				
40		Well graded GRAVEL, grey, slightly moist		
42				
44				
46				
48				
50				



PHOENIX WELL LOG_CAVECREEK.GPJ LOSREAL_GDT 1/10/05

Drilling Company: **WDC**
 Drilling Method: **Air Rotary**
 Logged By: **Brian Gould**
 Sampling Method: **None**

Date Started: **11/9/04** Time Started: **12:00 am**
 Date Ended: **11/10/04** Time Ended: **12:00 am**
 Boring Diameter:
 Total Depth: Depth to Water:

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-2

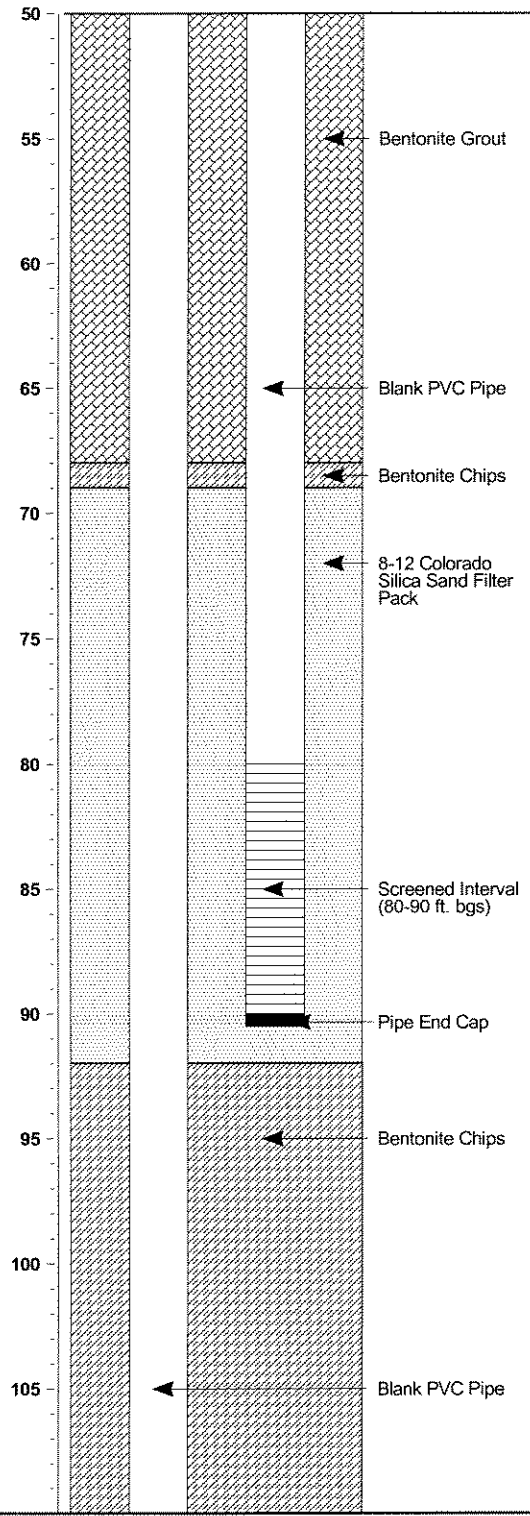
Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
50		Sandy GRAVEL with some cobbles, grey, slightly moist		
52				
54				
56		Sandy GRAVEL with some cobbles, grey, slightly moist		
58				
60				
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90		Sandy GRAVEL with some cobbles, grey, slightly moist		
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				

PHOENIX WELL LOG - CAVE CREEK.GPJ LOSREAL.GDT 1/10/05



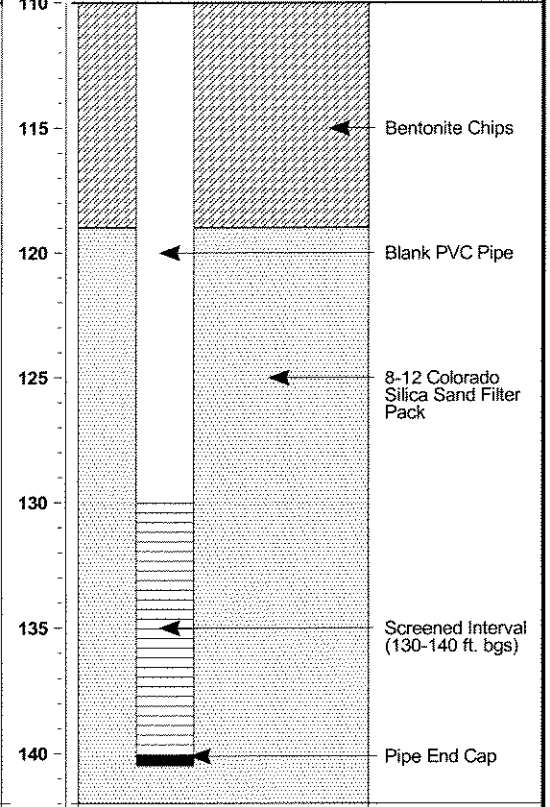
2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-2

Page 3 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110		Sandy GRAVEL with some cobbles, grey, slightly moist		 <p>110</p> <p>115</p> <p>120</p> <p>125</p> <p>130</p> <p>135</p> <p>140</p> <p>145</p> <p>150</p> <p>155</p> <p>160</p> <p>165</p> <p>170</p>
112				
114				
116				
118				
120				
122				
124				
126				
128				
130		Sandy GRAVEL with some cobbles, grey, slightly moist		
132				
134				
136				
138				
140				
142				
144				
146				
148				
150				
152				
154				
156				
158				
160				
162				
164				
166				
168				
170				

PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-3

Page 1 of 3

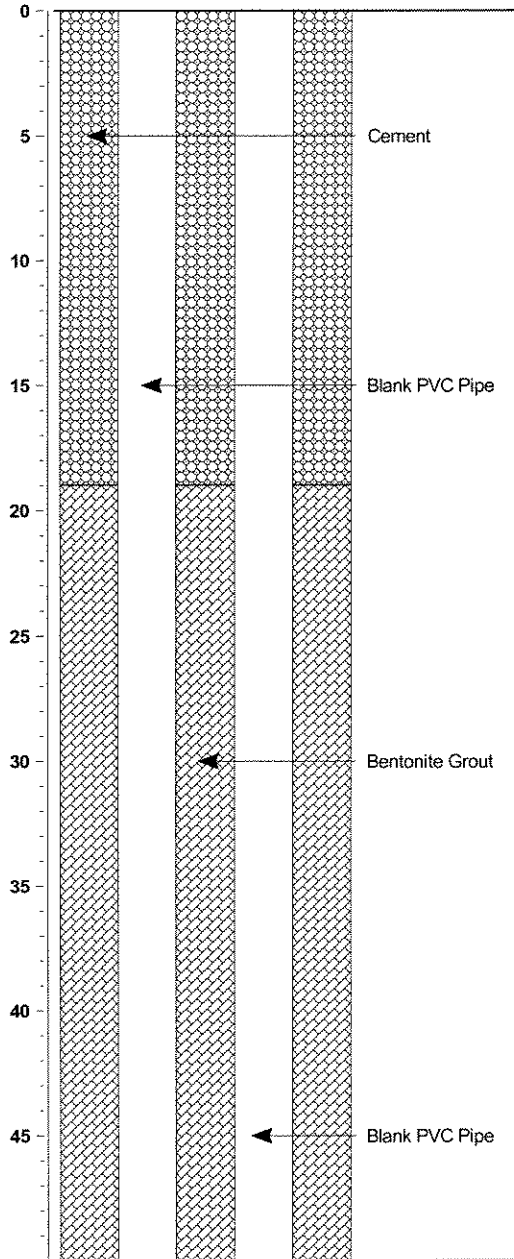
Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth feet	Graphic Log	Description	Comments	Completion Detail
0				
2		Landfill Cover		
4				
6		Paper, plastic, landscape debris		
8				
10				
12				
14				
16				
18		Bottom of Landfill		
20		Sandy GRAVEL with cobbles, grey, slightly moist		
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46		Sandy GRAVEL with cobbles, grey, slightly moist		
48				
50				



PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL.GDT 1/10/05

Drilling Company: **WDC**
 Drilling Method: **Air Rotary**
 Logged By: **Brian Gould**
 Sampling Method: **None**

Date Started: **11/10/04** Time Started: **12:00 am**
 Date Ended: **11/12/04** Time Ended: **12:00 am**
 Boring Diameter:
 Total Depth: Depth to Water:

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-3

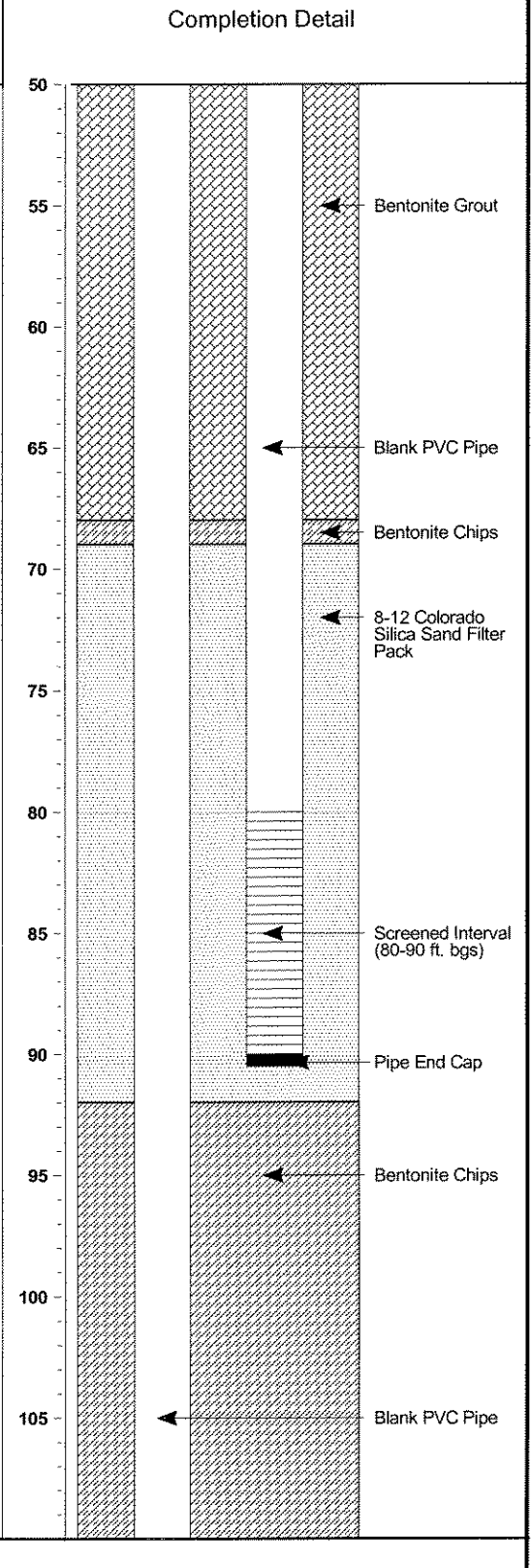
Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
50				
52				
54				
56				
58				
60		Sandy GRAVEL with cobbles, grey, slightly moist		
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90		Sandy GRAVEL with cobbles, grey, slightly moist		
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				

PHOENIXWELL.LOG CAVECREEK.GPJ LOSREAL.GDT 1/11/05



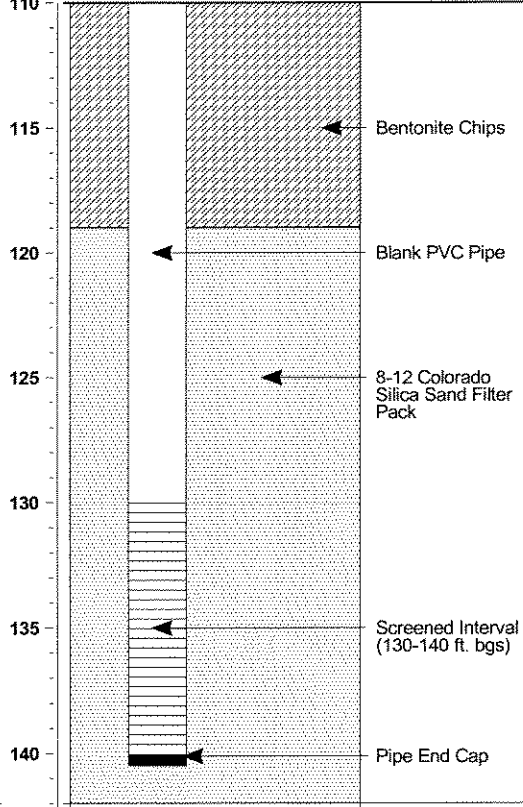
2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-3

Page 3 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140		Sandy GRAVEL with cobbles, grey, slightly moist		 <p>110 115 120 125 130 135 140</p> <p>Bentonite Chips</p> <p>Blank PVC Pipe</p> <p>8-12 Colorado Silica Sand Filter Pack</p> <p>Screened Interval (130-140 ft. bgs)</p> <p>Pipe End Cap</p>
142 144 146 148 150 152 154 156 158 160 162 164 166 168 170		Sandy GRAVEL with cobbles, grey, slightly moist		

PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL.GDT 1/10/05

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-4

Page 1 of 3

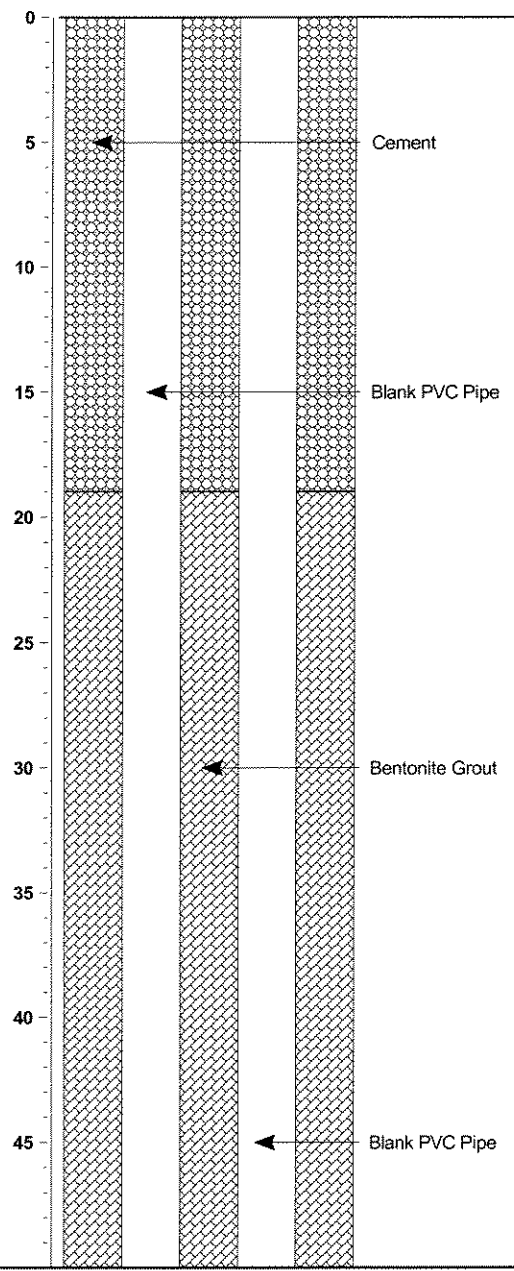
Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

REMARKS:

Cave Creek, Arizona

Depth	Graphic Log	Description	Comments	Completion Detail
0				
2				
4				
6		Paper, plastic		
8				
10				
12				
14				
16		Paper, plastic, yard waste		
18				
20				
22		Bottom of Landfill		
24				
26		Sandy GRAVEL with trace cobbles, grey, slightly moist		
28				
30				
32				
34				
36				
38				
40		Sandy GRAVEL with cobbles, grey, slightly moist		
42				
44				
46				
48				
50				



PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL_GDT 1/10/05

Drilling Company: **WDC**
 Drilling Method: **Air Rotary**
 Logged By: **Brian Gould**
 Sampling Method: **None**

Date Started: **11/13/04** Time Started: **12:00 am**
 Date Ended: **11/13/04** Time Ended: **12:00 am**
 Boring Diameter:
 Total Depth: Depth to Water:

2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-4

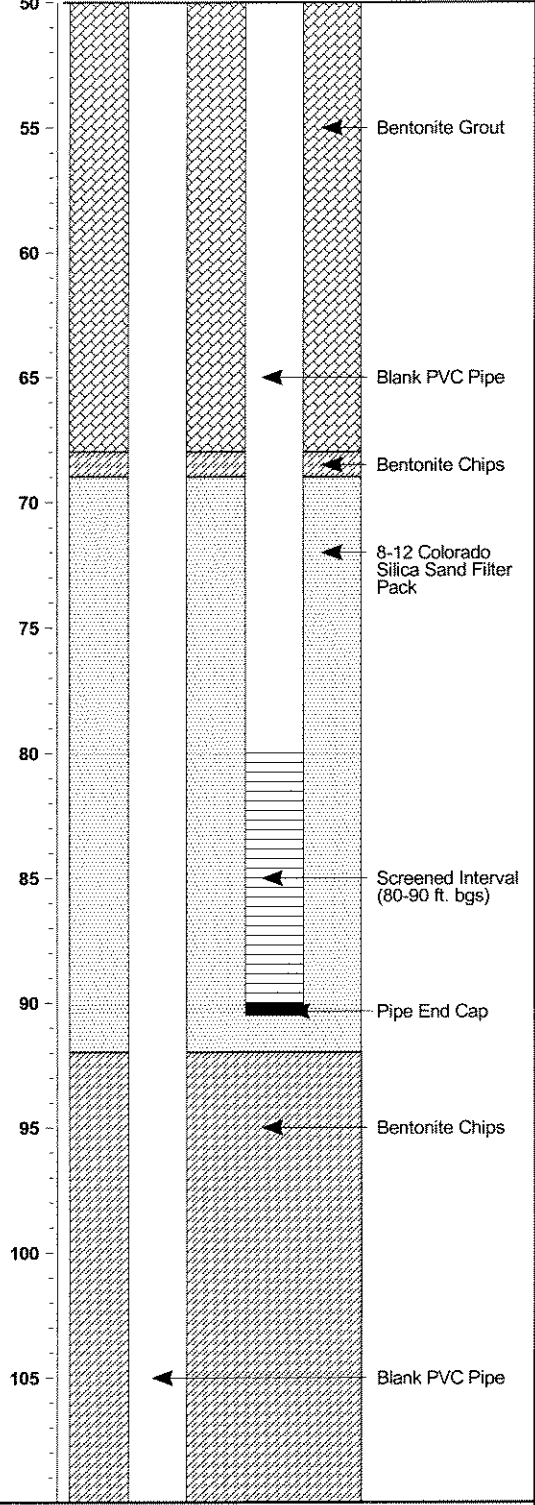
Page 2 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
50				
52				
54				
56				
58				
60		Sandy GRAVEL with cobbles, grey, slightly moist		
62				
64				
66				
68				
70				
72				
74				
76				
78				
80		Sandy GRAVEL with trace cobbles, grey, slightly moist		
82				
84				
86				
88				
90				
92				
94				
96				
98				
100				
102				
104				
106				
108				
110				

PHOENIX WELL LOG CAVECREEK.GPJ LOSREAL_GDT 1/10/05



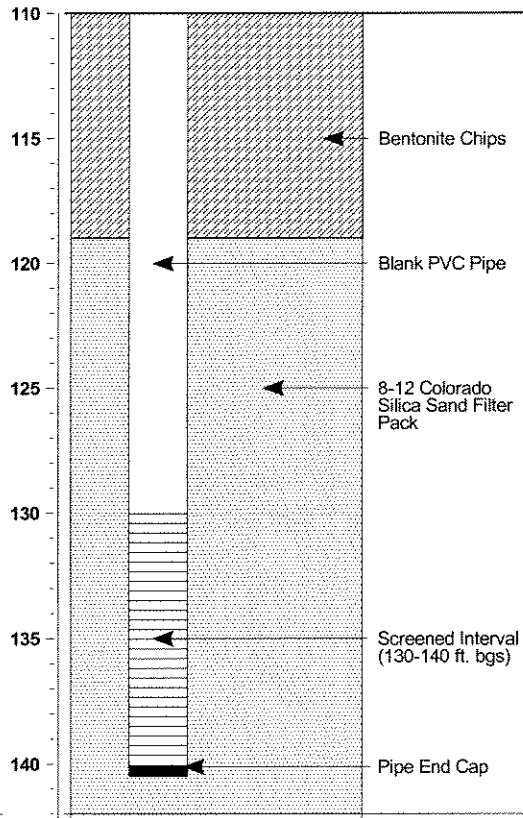
2702 North 44th Street, Suite 105B
Phoenix, Arizona 85008

WELL NUMBER: ODP-4

Page 3 of 3

Cave Creek Landfill
3955 East Carefree Highway

JOB NUMBER: 10203045.01 Task 8

Depth feet	Graphic Log	Description	Comments	Completion Detail
110		Sandy GRAVEL with some cobbles, grey, slightly moist		
112				
114		Sandy GRAVEL with some cobbles, grey, slightly moist		
116				
118				
120				
122				
124				
126				
128				
130				
132				
134				
136				
138				
140				
142				
144				
146				
148				
150				
152				
154				
156				
158				
160				
162				
164				
166				
168				
170				

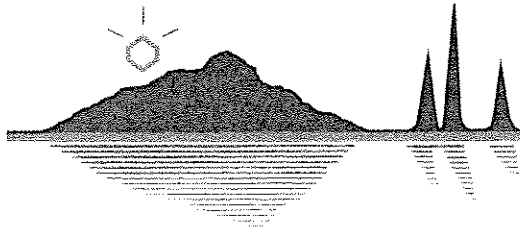
PHOENIX WELL LOG CAVE CREEK.GPJ LOSREAL.GDT 1/10/05

ATTACHMENT C
SUMMARY OF LABORATORY RESULTS

**Cave Creek Landfills
Laboratory Results Summary Table
3955 East Carefree Highway
Cave Creek, Arizona**

Sample ID	Sample Date	Sample Depth (in feet)	EPA Test Method 624 Modified (ug/L)									
			Trichloroethene	Dichlorodifluoromethane	Tetrachloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,2,2-Tetrachloroethane	1,1-Dichloroethene	Vinyl Chloride	Toluene	Trichlorofluoromethane
P-2	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-2	11/15/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-5	11/18/04	50*	< 0.50	5.1	1.6	0.66	0.83	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-6	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-7	11/16/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-8	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-10	11/16/04	20*	1.7	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-11	11/16/04	50*	1.2	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-12	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-13	11/16/04	20*	7.6	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-13	11/16/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-17	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-17	11/16/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-18	11/15/04	20*	< 0.50	5.1	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-18	11/15/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-19	11/15/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-19	11/15/04	50*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-22	11/16/04	50*	8.3	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-23	11/16/04	20*	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
P-25	11/15/04	50*	1.9	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-1	11/15/04	90	0.87	< 5.0	0.93	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-1	11/15/04	140	0.52	< 5.0	< 0.50	0.56	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-1	12/08/04	90	1.5	< 5.0	1.5	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-1	12/08/04	140	1.6	< 5.0	1.3	1.4	< 0.50	< 1.0	< 1.0	5.7	< 1.0	< 5.0
NDP-1	06/10/05	90	8.3	8.5	8	1.1	< 0.50	< 1.0	< 1.0	< 1.0	2.1	< 5.0
NDP-1	06/10/05	140	15.0	11	9.6	1.6	0.51	< 1.0	< 1.0	< 1.0	2.2	< 5.0
NDP-2	11/15/04	90	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-2	11/15/04	140	0.89	< 5.0	1.4	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-2	12/08/04	90	0.88	< 5.0	1.4	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-2	12/08/04	140	1.60	14	3.8	< 0.50	1.1	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
NDP-2	06/10/05	90	4.70	14	5.2	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	5.4
NDP-2	06/10/05	140	3.40	17	6.4	< 0.50	0.91	< 1.0	< 1.0	< 5.0	< 1.0	6.5
ODP-1	11/18/04	90	< 0.50	< 5.0	1.5	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-1	11/18/04	140	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-1	12/08/04	90	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	3.3	< 5.0	< 1.0	< 5.0
ODP-1	12/08/04	140	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-2	11/18/04	90	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-2	11/18/04	140	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-2	12/08/04	90	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-2	12/08/04	140	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-3	11/18/04	90	< 0.50	< 5.0	13	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-3	11/18/04	140	< 0.50	< 5.0	11	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-3	12/08/04	90	< 0.50	< 5.0	1.9	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-3	12/08/04	140	< 0.50	< 5.0	0.64	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-4	11/18/04	90	< 0.50	< 5.0	0.87	< 0.50	< 0.50	1	< 1.0	< 5.0	< 1.0	< 5.0
ODP-4	11/18/04	140	< 0.50	< 5.0	0.74	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-4	12/08/04	90	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0
ODP-4	12/08/04	140	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0

ATTACHMENT D
LABORATORY REPORTS



TRANSWEST
GEOCHEM

November 29, 2004

Brad Johnston
SCS Engineers
2702 N. 44th St., Suite 105B
Phoenix, AZ 85008

RE: Cave Creek Landfills
Work Order No.: 0411229

Dear Brad,

Transwest Geochem, Inc. received 10 samples on 11/15/2004 5:50:00 PM for the analyses presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,


Carlene McCutcheon
Project Manager

ADHS License No. AZM133/AZ0133

Date Printed: 29-Nov-04

Client: SCS Engineers
Work Order: 0411229
Project Name: Cave Creek Landfills
Project Number:

Case Narrative

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 2.0 11/26/2003.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.



**TRANSWEST
GEOCHEM**

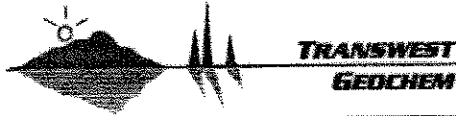
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek Landfills
Project Number:
Work Order: 0411229
Date Received: 15-Nov-04

Work Order Sample Summary

Client Sample ID	Lab Sample ID	Test Code	Collection Date
P-25	0411229-01A	8260B	11/15/2004 3:30:00 PM
NDP-2 Shallow	0411229-02A	8260B	11/15/2004 3:00:00 PM
P-18 Shallow	0411229-03A	8260B	11/15/2004 3:55:00 PM
P-19 deep	0411229-04A	8260B	11/15/2004 4:05:00 PM
NDP-1 Shallow	0411229-05A	8260B	11/15/2004 2:45:00 PM
NDP-1 deep	0411229-06A	8260B	11/15/2004 2:45:00 PM
NDP-2 deep	0411229-07A	8260B	11/15/2004 3:00:00 PM
P-18 deep	0411229-08A	8260B	11/15/2004 3:55:00 PM
P-19 Shallow	0411229-09A	8260B	11/15/2004 4:05:00 PM
P-2 deep	0411229-10A	8260B	11/15/2004 4:31:00 PM



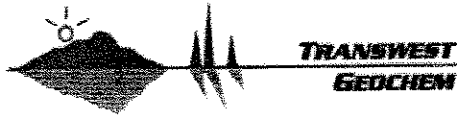
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek Landfills
Project Number:
Work Order: 0411229
Date Received: 15-Nov-04

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Transwest Geochem can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.



Date Printed 22-Nov-04
License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek Landfills
Project Number:
Work Order: 0411229
Date Received: 15-Nov-04

References

Transwest Geochem, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, 1998.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement 1: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 418.1AZ: TPH in Soil, September 1994.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600 4-81-045, September 1982.



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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411229
 Lab ID: 0411229-01
 Project Name: Cave Creek Landfills
 Project Number:

Client Sample ID: P-25
 Collection Date: 11/15/2004 3:30:00 PM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Trichloroethene	1.9	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	101	69-131		%REC	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	92	69-133		%REC	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A
Toluene-d8(Surrogate)	104	80-128		%REC	1.0	8260B	11/16/04	11/16/04 12:08	JC	GCMS10_041116A



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License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-02
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: NDP-2 Shallow
Collection Date: 11/15/2004 3:00:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	96	69-133		%REC	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	11/16/04	11/16/04 12:43	JC	GCMS10_041116A



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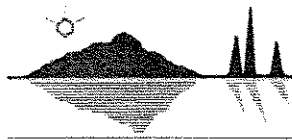
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-03
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: P-18 Shallow
Collection Date: 11/15/2004 3:55:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Dichlorodifluoromethane	5.1	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	104	69-131		%REC	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	107	69-133		%REC	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	11/16/04	11/16/04 13:19	JC	GCMS10_041116A



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-04
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: P-19 deep
Collection Date: 11/15/2004 4:05:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	107	69-131		%REC	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	116	69-133		%REC	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	11/16/04	11/16/04 13:55	JC	GCMS10_041116A



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-05
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: NDP-1 Shallow
Collection Date: 11/15/2004 2:45:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Tetrachloroethene	0.93	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Trichloroethene	0.87	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	101	69-133		%REC	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A
Toluene-d8(Surrogate)	98	80-128		%REC	1.0	8260B	11/16/04	11/16/04 14:31	JC	GCMS10_041116A



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-06
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: NDP-1 deep
Collection Date: 11/15/2004 2:45:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
cis-1,2-Dichloroethene	0.56	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Trichloroethene	0.52	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	104	69-131		%REC	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	100	72-134		%REC	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	105	69-133		%REC	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	11/16/04	11/16/04 15:06	JC	GCMS10_041116A



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411229
 Lab ID: 0411229-07
 Project Name: Cave Creek Landfills
 Project Number:

Client Sample ID: NDP-2 deep
 Collection Date: 11/15/2004 3:00:00 PM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Tetrachloroethene	1.4	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Trichloroethene	0.89	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	102	69-131		%REC	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	102	69-133		%REC	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	11/16/04	11/16/04 15:42	JC	GCMS10_041116A



**TRANSWEST
GEOCHEM**

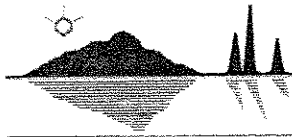
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411229
 Lab ID: 0411229-08
 Project Name: Cave Creek Landfills
 Project Number:

Client Sample ID: P-18 deep
 Collection Date: 11/15/2004 3:55:00 PM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Bromofom	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	105	69-131		%REC	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	100	69-133		%REC	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A
Toluene-d8(Surrogate)	95	80-128		%REC	1.0	8260B	11/16/04	11/16/04 16:17	JC	GCMS10_041116A



**TRANSWEST
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Date Printed 22-Nov-04

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CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-09
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: P-19 Shallow
Collection Date: 11/15/2004 4:05:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	104	69-133		%REC	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A
Toluene-d8(Surrogate)	105	80-128		%REC	1.0	8260B	11/16/04	11/16/04 16:53	JC	GCMS10_041116A



**TRANSWEST
GEOCHEM**

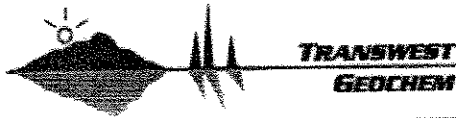
Date Printed 22-Nov-04

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CLIENT: SCS Engineers
Work Order: 0411229
Lab ID: 0411229-10
Project Name: Cave Creek Landfills
Project Number:

Client Sample ID: P-2 deep
Collection Date: 11/15/2004 4:31:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
1,2-Dichloroethane-d4(Surrogate)	102	69-131		%REC	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
4-Bromofluorobenzene(Surrogate)	100	72-134		%REC	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Dibromofluoromethane(Surrogate)	103	69-133		%REC	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	11/16/04	11/16/04 17:29	JC	GCMS10_041116A



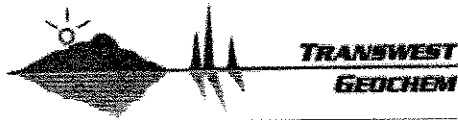
Date: 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411229
 Project: Cave Creek Landfills

QC SUMMARY REPORT
 Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Bromoform	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Bromomethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Chloroform	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Chloroethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Chloromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Methylene chloride	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Toluene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Trichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
1,2-Dichloroethane-d4	100	69-131		%REC	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
4-Bromofluorobenzene	103	72-134		%REC	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Dibromofluoromethane	91	69-133		%REC	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A
Toluene-d8	103	80-128		%REC	1	8260B	11/16/04	11/16/04 10:57	JC	GCMS10_041116A



Date: 22-Nov-04

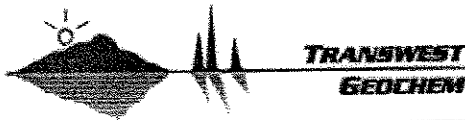
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CLIENT: SCS Engineers
 Work Order: 0411229
 Project: Cave Creek Landfills

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0411229-01AD	Batch ID: GCMS10_041116A										
Client ID: P-25											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Tetrachloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Trichloroethene	1.750	0.50	µg/L	1.865	6%	30	8260B	11/16/04	11/16/04 18:04	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/16/04 18:04	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	11/16/04	11/16/04 18:04	JC	



Date: 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411229
 Project: Cave Creek Landfills

QC SUMMARY REPORT
 Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSV 11/16	Batch ID: GCMS10_041116A		Test Code: 8260B			Date Analyzed: 11/16/04 11:32		Date Prepared: 11/16/04			
	Units: µg/L										
Benzene	9.105	0.50	10.00	<0.50	91%	63	120				
Bromodichloromethane	9.055	0.50	10.00	<0.50	91%	42	135				
Bromoform	9.250	1.0	10.00	<1.0	93%	0	146				
Bromomethane	13.90	5.0	15.00	<5.0	93%	24	161				
Carbon tetrachloride	9.715	0.50	10.00	<0.50	97%	57	144				
Chlorobenzene	8.740	0.50	10.00	<0.50	87%	20	133				
Chloroform	8.660	0.50	10.00	<0.50	87%	48	132				
Chloroethane	14.37	5.0	15.00	<5.0	96%	34	141				
Chloromethane	15.87	5.0	15.00	<5.0	106%	0	199				
Dibromochloromethane	9.140	0.50	10.00	<0.50	91%	36	138				
1,2-Dichlorobenzene	6.840	0.50	10.00	<0.50	68%	0	122				
1,3-Dichlorobenzene	7.080	0.50	10.00	<0.50	71%	0	123				
1,4-Dichlorobenzene	6.840	0.50	10.00	<0.50	68%	0	118				
Dichlorodifluoromethane	18.46	5.0	15.00	<5.0	123%	0	291				
1,1-Dichloroethane	9.265	0.50	10.00	<0.50	93%	49	134				
1,2-Dichloroethane	9.185	0.50	10.00	<0.50	92%	44	135				
1,1-Dichloroethene	8.835	1.0	10.00	<1.0	88%	49	140				
cis-1,2-Dichloroethene	8.400	0.50	10.00	<0.50	84%	53	127				
trans-1,2-Dichloroethene	8.840	0.50	10.00	<0.50	88%	54	129				
1,2-Dichloropropane	9.155	0.50	10.00	<0.50	92%	60	119				
cis-1,3-Dichloropropene	9.255	0.50	10.00	<0.50	93%	45	126				
trans-1,3-Dichloropropene	8.840	0.50	10.00	<0.50	88%	38	126				
Ethylbenzene	8.405	1.0	10.00	<1.0	84%	29	124				
Methylene chloride	8.365	5.0	10.00	<5.0	84%	43	145				
1,1,2,2-Tetrachloroethane	8.700	1.0	10.00	<1.0	87%	0	129				
Tetrachloroethene	8.455	0.50	10.00	<0.50	85%	44	136				
Toluene	8.395	1.0	10.00	<1.0	84%	48	122				
1,1,1-Trichloroethane	8.830	0.50	10.00	<0.50	88%	59	133				
1,1,2-Trichloroethane	9.170	0.50	10.00	<0.50	92%	43	123				
Trichloroethene	8.825	0.50	10.00	<0.50	88%	56	124				
Trichlorofluoromethane	15.57	5.0	15.00	<5.0	104%	20	169				
Vinyl chloride	22.36	5.0	15.00	<5.0	149%	0	330				
Xylenes, Total	25.26	1.5	30.00	<1.5	84%	22	130				
1,2-Dichloroethane-d4	25.57	0.50	25.00	N/A	102%	69	131				
4-Bromofluorobenzene	25.37	0.50	25.00	N/A	101%	72	134				
Dibromofluoromethane	23.70	0.50	25.00	N/A	95%	69	133				
Toluene-d8	26.60	0.50	25.00	N/A	106%	80	128				



**TRANSWEST
GEOCHEM**

3725 E. Atlanta Ave., Ste 2
Phoenix, Arizona 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 301
Tucson, Arizona 85714
Phone: (520) 573-1061
Fax: (520) 573-1063

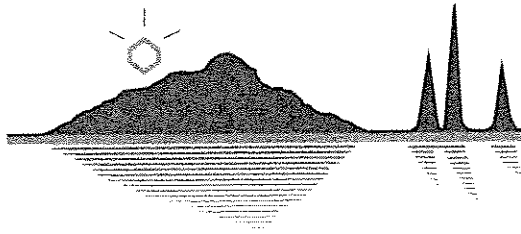
Chain of Custody
TGI Work Order No: 0411279
Date 11/15/04 Page 1 of 1

Project Manager: Brad Johnston	Bill to:
Client Name: SCS Engineers	Company:
Address: 2702 N. 44th St, Suite 105B	Address:
City, State ZIP: Phoenix, Arizona 85008-1583	City, State ZIP:
Phone: (602) 840-2516 Fax: (602) 274-0572	Phone:
	Fax:

P.O. No.:	ANALYSIS REQUEST	
Project Name: Case Creek Lead Pits		
Project Number:		

SAMPLE RECEIPT				Date Sampled	Time Sampled	Lab ID
Temperature	AND	Ice:				
Received Intact:	Yes	No	N/A	N/A	N/A	N/A
Custody Seals:	Yes	No	N/A			
Total No. of Containers:	10					
Sample Identification	Matrix					
P-25				11/15/04	1530	1
NDP-2 shallow				1500	2	
P-18 shallow				1555	3	
P-19 deep				1605	4	
NDP-1 shallow				1445	5	
NDP-1 deep				1445	6	
NDP-2 deep				1500	7	
P-18 deep				1555	8	
P-19 shallow				1605	9	
P-2 deep				1631	10	

ANALYSIS REQUEST		Received by (Signature)	Received by (Print Name)	Date/Time
8 RCRA Metals				
PAH, EPA 8310				
PCB's, (8082)				
Organochlorine Pesticides (608/8081)				
Semi-Volatile Organics GCMS (625/8270)				
SDWA Volatiles, (524.2)				
Volatile Organics GCMS (624/8260AZ)	X			
BTEX (8021B)	X			
TPH, 8015AZR.1	X			
No. of Containers				
		Received by (Signature)	Received by (Print Name)	Date/Time
			Bradford	
			Carey Cole	11/15/04 1730



TRANSWEST
GEOCHEM

November 24, 2004

Brad Johnston
SCS Engineers
2702 N. 44th St., Suite 105B
Phoenix, AZ 85008

RE: Cave Creek Landfill
Work Order No.: 0411249

Dear Brad,

Transwest Geochem, Inc. received 13 samples on 11/16/2004 3:40:00 PM for the analyses presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,

A handwritten signature in cursive script that reads "Carlene McCutcheon".

Carlene McCutcheon
Project Manager

ADHS License No. AZM133/AZ0133

Date Printed: 24-Nov-04

Client: SCS Engineers
Work Order: 0411249
Project Name: Cave Creek Landfill
Project Number:

Case Narrative

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 2.0 11/26/2003.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.



**TRANSWEST
GEOCHEM**

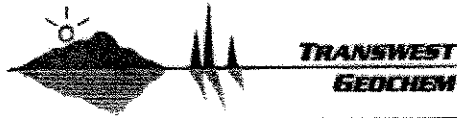
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek Landfill
Project Number:
Work Order: 0411249
Date Received: 16-Nov-04

Work Order Sample Summary

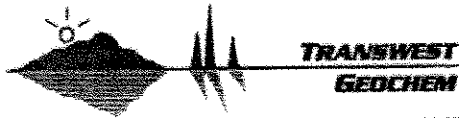
Client Sample ID	Lab Sample ID	Test Code	Collection Date
P-2	0411249-01A	8260B	11/16/2004 10:30:00 AM
P-23	0411249-02A	8260B	11/16/2004 11:10:00 AM
P-17 deep	0411249-03A	8260B	11/16/2004 10:10:00 AM
P-13 shallow	0411249-04A	8260B	11/16/2004 10:46:00 AM
P-13 deep	0411249-05A	8260B	11/16/2004 10:46:00 AM
P-17 shallow	0411249-06A	8260B	11/16/2004 10:10:00 AM
P-11	0411249-07A	8260B	11/16/2004 11:45:00 AM
P-22	0411249-08A	8260B	11/16/2004 11:20:00 AM
P-8	0411249-09A	8260B	11/16/2004 12:15:00 PM
P-12	0411249-10A	8260B	11/16/2004 11:30:00 AM
P-7	0411249-11A	8260B	11/16/2004 12:20:00 PM
P-6	0411249-12A	8260B	11/16/2004 12:35:00 PM
P-10	0411249-13A	8260B	11/16/2004 12:00:00 PM



CLIENT: SCS Engineers
Project Name: Cave Creek Landfill
Project Number:
Work Order: 0411249
Date Received: 16-Nov-04

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Transwest Geochem can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.



Date Printed 22-Nov-04
License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek Landfill
Project Number:
Work Order: 0411249
Date Received: 16-Nov-04

References

Transwest Geochem, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, 1998.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement 1: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

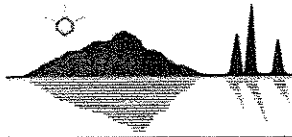
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 418.1AZ: TPH in Soil, September 1994.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600 4-81-045, September 1982.



**TRANSWEST
GEOCHEM**

Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-01
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-2
Collection Date: 11/16/2004 10:30:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	100	69-131		%REC	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	99	72-134		%REC	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	91	69-133		%REC	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B
Toluene-d8(Surrogate)	103	80-128		%REC	1.0	8260B	11/16/04	11/16/04 21:13	JC	GCMS10_041116B



**TRANSWEST
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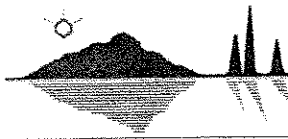
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-02
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-23
Collection Date: 11/16/2004 11:10:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	101	69-131		%REC	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	100	72-134		%REC	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	96	69-133		%REC	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B
Toluene-d8(Surrogate)	104	80-128		%REC	1.0	8260B	11/16/04	11/16/04 21:48	JC	GCMS10_041116B



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-03
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-17 deep
Collection Date: 11/16/2004 10:10:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	104	69-133		%REC	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B
Toluene-d8(Surrogate)	107	80-128		%REC	1.0	8260B	11/16/04	11/16/04 22:24	JC	GCMS10_041116B



**TRANSWEST
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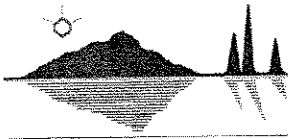
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-04
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-13 shallow
Collection Date: 11/16/2004 10:46:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Trichloroethene	7.6	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	107	69-131		%REC	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	100	72-134		%REC	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	115	69-133		%REC	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	11/16/04	11/16/04 23:00	JC	GCMS10_041116B



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-05
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-13 deep
Collection Date: 11/16/2004 10:46:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	99	69-133		%REC	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B
Toluene-d8(Surrogate)	105	80-128		%REC	1.0	8260B	11/16/04	11/16/04 23:35	JC	GCMS10_041116B



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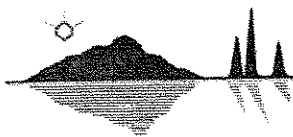
Date Printed 22-Nov-04

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CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-06
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-17 shallow
Collection Date: 11/16/2004 10:10:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	105	69-131		%REC	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	107	69-133		%REC	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B
Toluene-d8(Surrogate)	103	80-128		%REC	1.0	8260B	11/16/04	11/17/04 0:11	JC	GCMS10_041116B



**TRANSWEST
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Date Printed 22-Nov-04

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CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-07
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-11
Collection Date: 11/16/2004 11:45:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Trichloroethene	1.2	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	114	69-131		%REC	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	107	72-134		%REC	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	111	69-133		%REC	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	11/16/04	11/17/04 0:46	JC	GCMS10_041116B



**TRANSWEST
GEOCHEM**

Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Lab ID: 0411249-08
 Project Name: Cave Creek Landfill
 Project Number:

Client Sample ID: P-22
 Collection Date: 11/16/2004 11:20:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Trichloroethene	8.3	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	103	69-133		%REC	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B
Toluene-d8(Surrogate)	107	80-128		%REC	1.0	8260B	11/16/04	11/17/04 1:21	JC	GCMS10_041116B



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-09
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-8
Collection Date: 11/16/2004 12:15:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	107	69-131		%REC	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	104	72-134		%REC	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	105	69-133		%REC	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B
Toluene-d8(Surrogate)	104	80-128		%REC	1.0	8260B	11/16/04	11/17/04 1:57	JC	GCMS10_041116B



**TRANSWEST
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Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-10
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-12
Collection Date: 11/16/2004 11:30:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	107	69-131		%REC	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	104	69-133		%REC	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B
Toluene-d8(Surrogate)	107	80-128		%REC	1.0	8260B	11/16/04	11/17/04 2:33	JC	GCMS10_041116B



**TRANSWEST
GEOCHEM**

Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-11
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-7
Collection Date: 11/16/2004 12:20:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	105	69-131		%REC	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	96	69-133		%REC	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	11/16/04	11/17/04 3:44	JC	GCMS10_041116B



**TRANSWEST
GEOCHEM**

Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411249
Lab ID: 0411249-12
Project Name: Cave Creek Landfill
Project Number:

Client Sample ID: P-6
Collection Date: 11/16/2004 12:35:00 PM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	101	69-133		%REC	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	11/16/04	11/17/04 4:19	JC	GCMS10_041116B



**TRANSWEST
GEOCHEM**

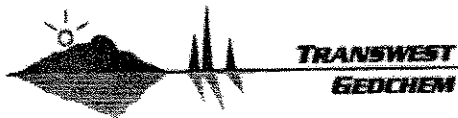
Date Printed 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Lab ID: 0411249-13
 Project Name: Cave Creek Landfill
 Project Number:

Client Sample ID: P-10
 Collection Date: 11/16/2004 12:00:00 PM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Trichloroethene	1.7	0.50		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
1,2-Dichloroethane-d4(Surrogate)	99	69-131		%REC	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
4-Bromofluorobenzene(Surrogate)	97	72-134		%REC	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Dibromofluoromethane(Surrogate)	93	69-133		%REC	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B
Toluene-d8(Surrogate)	97	80-128		%REC	1.0	8260B	11/16/04	11/17/04 4:55	JC	GCMS10_041116B



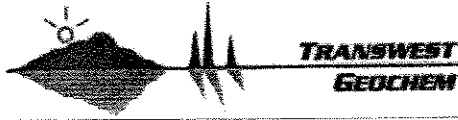
Date: 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Project: Cave Creek Landfill

QC SUMMARY REPORT
 Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Bromofom	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Bromomethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Chloroform	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Chloroethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Chloromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Methylene chloride	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Toluene	<1.0	1.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Trichloroethene	<0.50	0.50		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
1,2-Dichloroethane-d4	101	69-131		%REC	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
4-Bromofluorobenzene	99	72-134		%REC	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Dibromofluoromethane	91	69-133		%REC	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B
Toluene-d8	97	80-128		%REC	1	8260B	11/16/04	11/16/04 20:01	JC	GCMS10_041116B



Date: 22-Nov-04

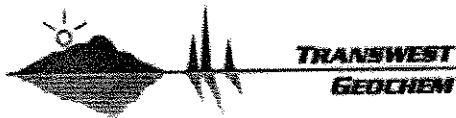
License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Project: Cave Creek Landfill

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0411249-10AD		Batch ID: GCMS10_041116B									
Client ID: P-12											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Tetrachloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Trichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 3:08	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	11/16/04	11/17/04 3:08	JC	



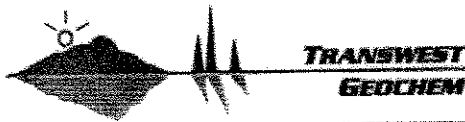
Date: 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Project: Cave Creek Landfill

QC SUMMARY REPORT
 Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0411249-11AD Batch ID: GCMS10_041116B											
Client ID: P-7											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Tetrachloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Trichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	11/16/04	11/17/04 5:30	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	11/16/04	11/17/04 5:30	JC	



Date: 22-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411249
 Project: Cave Creek Landfill

QC SUMMARY REPORT
 Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSV2 11/16	Batch ID: GCMS10_041116B		Test Code: 8260B			Date Analyzed: 11/16/04 20:37		Date Prepared: 11/16/04			
	Units: µg/L										
Benzene	9.155	0.50	10.00	<0.50	92%	63	120				
Bromodichloromethane	8.605	0.50	10.00	<0.50	86%	42	135				
Bromoform	8.045	1.0	10.00	<1.0	80%	0	146				
Bromomethane	13.26	5.0	15.00	<5.0	88%	24	161				
Carbon tetrachloride	10.15	0.50	10.00	<0.50	102%	57	144				
Chlorobenzene	8.015	0.50	10.00	<0.50	80%	20	133				
Chloroform	8.680	0.50	10.00	<0.50	87%	48	132				
Chloroethane	14.35	5.0	15.00	<5.0	96%	34	141				
Chloromethane	15.48	5.0	15.00	<5.0	103%	0	199				
Dibromochloromethane	8.635	0.50	10.00	<0.50	86%	36	138				
1,2-Dichlorobenzene	5.250	0.50	10.00	<0.50	53%	0	122				
1,3-Dichlorobenzene	5.595	0.50	10.00	<0.50	56%	0	123				
1,4-Dichlorobenzene	5.190	0.50	10.00	<0.50	52%	0	118				
Dichlorodifluoromethane	18.98	5.0	15.00	<5.0	127%	0	291				
1,1-Dichloroethane	9.620	0.50	10.00	<0.50	96%	49	134				
1,2-Dichloroethane	8.975	0.50	10.00	<0.50	90%	44	135				
1,1-Dichloroethene	8.700	1.0	10.00	<1.0	87%	49	140				
cis-1,2-Dichloroethene	8.350	0.50	10.00	<0.50	84%	53	127				
trans-1,2-Dichloroethene	8.810	0.50	10.00	<0.50	88%	54	129				
1,2-Dichloropropane	8.980	0.50	10.00	<0.50	90%	60	119				
cis-1,3-Dichloropropene	8.380	0.50	10.00	<0.50	84%	45	126				
trans-1,3-Dichloropropene	8.155	0.50	10.00	<0.50	82%	38	126				
Ethylbenzene	8.100	1.0	10.00	<1.0	81%	29	124				
Methylene chloride	7.580	5.0	10.00	<5.0	76%	43	145				
1,1,2,2-Tetrachloroethane	7.685	1.0	10.00	<1.0	77%	0	129				
Tetrachloroethene	8.625	0.50	10.00	<0.50	86%	44	136				
Toluene	8.715	1.0	10.00	<1.0	87%	48	122				
1,1,1-Trichloroethane	9.400	0.50	10.00	<0.50	94%	59	133				
1,1,2-Trichloroethane	9.015	0.50	10.00	<0.50	90%	43	123				
Trichloroethene	8.880	0.50	10.00	<0.50	89%	56	124				
Trichlorofluoromethane	15.50	5.0	15.00	<5.0	103%	20	169				
Vinyl chloride	26.61	5.0	15.00	<5.0	177%	0	330				
Xylenes, Total	24.00	1.5	30.00	<1.5	80%	22	130				
1,2-Dichloroethane-d4	24.99	0.50	25.00	N/A	100%	69	131				
4-Bromofluorobenzene	24.59	0.50	25.00	N/A	98%	72	134				
Dibromofluoromethane	23.36	0.50	25.00	N/A	93%	69	133				
Toluene-d8	25.01	0.50	25.00	N/A	100%	80	128				



3725 E. Atlanta Ave., Site 2
 Phoenix, Arizona 85040
 Phone: (602) 437-0330
 Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 301
 Tucson, Arizona 85714
 Phone: (520) 573-1061
 Fax: (520) 573-1063

Chain of Custody

TGI Work Order No: 011249
 Date 11/16/04 Page 1 of 2

Project Manager: Brad Johnson
 Client Name: S&S Engineers
 Address: 2702 W. 4th St Suite 105B
 City, State ZIP: Phoenix AZ 85008-1583
 Phone: 602 240 2596 Fax: 602 224 0540

Bill to:
 Company:
 Address:
 City, State ZIP:
 Phone: Fax:

P.O. No.:
 Project Name: Cave Creek Land Fill
 Project Number:

SAMPLE RECEIPT

Temperature: AMC Ice:
 Received Intact: Yes No N/A Absent / Present
 Custody Seals: Yes No N/A Wet / Blue
 Total No. of Containers: 12

ANALYSIS REQUEST		No. of Containers	TPH, 8015AZR.1	BTEX (8021B)	Volatile Organics GCMS (6248260AZ)	SDWA Volatiles, (524.2)	Semi-Volatile Organics GCMS (6258270)	Organochlorine Pesticides (608/8081)	PCB's, (8082)	PAH, EPA 8310	6 RCRA Metals	Comments
P-2	Deep	1			X							
P-23	Deep	1										
P-17	Deep	1										
P-13	Shallow	1										
P-53	Deep	1										
P-17	Shallow	1										
P-11		1										
P-22		1										
P-8		1										
P-12		1										
P-7		1										
P-6		1										

Reliquished by (Signature): Brad Johnson (Print Name): Brad Johnson
 Received by (Signature): Carey Cole (Print Name): Carey Cole Date/Time: 11/16/04 1540



3725 E. Atlanta Ave., Ste 2
 Phoenix, Arizona 85040
 Phone: (602) 437-0330
 Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 301
 Tucson, Arizona 85714
 Phone: (520) 573-1061
 Fax: (520) 573-1063

Chain of Custody
 TGI Work Order No: 0411249
 Date: _____ Page 2 of 2

Project Manager: Brad Johnston
 Client Name: SCS Engineers
 Address: 2702 N 41st St, Suite 105B
 City, State ZIP: Phoenix AZ 85008-1583
 Phone: 602-240-2596 Fax: 602-224-054

Bill to: _____
 Company: _____
 Address: _____
 City, State ZIP: _____
 Phone: _____ Fax: _____

P.O. No.: _____
 Project Name: Cave Creek 12-3 F-11
 Project Number: _____

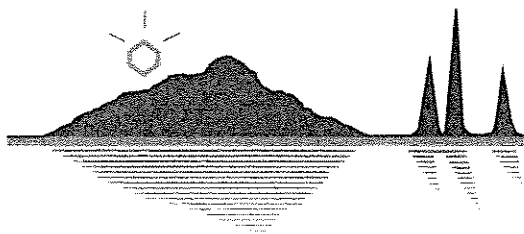
SAMPLE RECEIPT

Temperature: AMB Ice: _____
 Received intact: Yes No N/A Absent / Present _____
 Custody Seals: Yes No N/A Wet / Blue _____
 Total No. of Containers: 1

Sample Identification: F-10 Matrix: Air Date Sampled: 11/16/04 Time Sampled: 1700 Lab ID: B3

ANALYSIS REQUEST		No. of Containers	Comments
Analysis	Requested		
8 RCRA Metals			
PAH, EPA 8310			
PCB's, (8082)			
Organochlorine Pesticides (608/8081)			
Semi-Volatile Organics GCMS (625/8270)			
SDWA Volatiles, (524.2)			
Volatile Organics GCMS (624/8260AZ)	<u>X</u>		
BTEX (8021B)			
TPH, 8015AZR.1			

Relinquished by: (Signature) [Signature] (Print Name) Brian Gault Date/Time _____
 Received by: (Signature) [Signature] (Print Name) Carey Cole Date/Time 11/16/04 1540



TRANSWEST
GEOCHEM

November 29, 2004

Brad Johnston
SCS Engineers
2702 N. 44th St., Suite 105B
Phoenix, AZ 85008

RE: Cavcreek Landfill
Work Order No.: 0411306

Dear Brad,

Transwest Geochem, Inc. received 9 samples on 11/18/2004 4:10:00 PM for the analyses presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,

A handwritten signature in cursive script that reads "Carlene McCutcheon".

Carlene McCutcheon
Project Manager

ADHS License No. AZM133/AZ0133

Date Printed: 29-Nov-04

Client: SCS Engineers
Work Order: 0411306
Project Name: Cavecreek Landfill
Project Number:

Case Narrative

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 2.0 11/26/2003.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.



**TRANSWEST
GEOCHEM**

Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cavecreek Landfill
Project Number:
Work Order: 0411306
Date Received: 18-Nov-04

**Case Narrative
Data Qualifiers**

One or more of the following data qualifiers may be associated with your analytical and/or quality control data.

L1 The associated blank spike recovery was above laboratory acceptance limits.



**TRANSWEST
GEOCHEM**

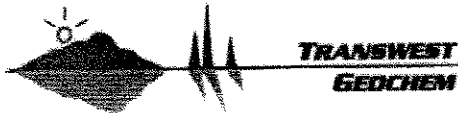
Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cavecreek Landfill
Project Number:
Work Order: 0411306
Date Received: 18-Nov-04

Work Order Sample Summary

Client Sample ID	Lab Sample ID	Test Code	Collection Date
ODP-2 Shallow	0411306-01A	8260B	11/18/2004 11:05:00 AM
P-5	0411306-02A	8260B	11/18/2004 1:30:00 PM
ODP-4 deep	0411306-03A	8260B	11/18/2004 11:45:00 AM
ODP-1 Shallow	0411306-04A	8260B	11/18/2004 10:50:00 AM
ODP-1 deep	0411306-05A	8260B	11/18/2004 10:50:00 AM
ODP-3 shallow	0411306-06A	8260B	11/18/2004 11:30:00 AM
ODP-3 deep	0411306-07A	8260B	11/18/2004 11:30:00 AM
ODP-4 Shallow	0411306-08A	8260B	11/18/2004 11:45:00 AM
ODP-2 deep	0411306-09A	8260B	11/18/2004 11:05:00 AM



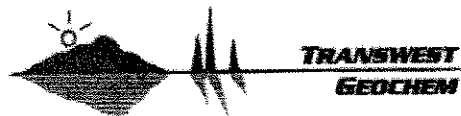
Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cavecreek Landfill
Project Number:
Work Order: 0411306
Date Received: 18-Nov-04

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Transwest Geochem can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.



Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cavecreek Landfill
Project Number:
Work Order: 0411306
Date Received: 18-Nov-04

References

Transwest Geochem, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, 1998.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement 1: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 418.1AZ: TPH in Soil, September 1994.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600 4-81-045, September 1982.



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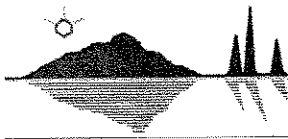
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CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-01
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-2 Shallow
 Collection Date: 11/18/2004 11:05:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	99	69-131		%REC	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	90	69-133		%REC	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B
Toluene-d8(Surrogate)	102	80-128		%REC	1.0	8260B	N/A	11/20/04 10:02	JC	GCMS10_041119B



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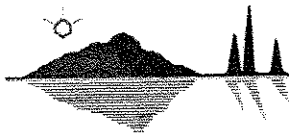
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CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-02
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: P-5
 Collection Date: 11/18/2004 1:30:00 PM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Dichlorodifluoromethane	5.1	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,1-Dichloroethane	0.83	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
cis-1,2-Dichloroethene	0.66	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Tetrachloroethene	1.6	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	102	72-134		%REC	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	98	69-133		%REC	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B
Toluene-d8(Surrogate)	97	80-128		%REC	1.0	8260B	N/A	11/20/04 10:36	JC	GCMS10_041119B



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Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-03
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-4 deep
 Collection Date: 11/18/2004 11:45:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Tetrachloroethene	0.74	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	101	69-131		%REC	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	102	69-133		%REC	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B
Toluene-d8(Surrogate)	96	80-128		%REC	1.0	8260B	N/A	11/20/04 11:12	JC	GCMS10_041119B



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License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-04
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-1 Shallow
 Collection Date: 11/18/2004 10:50:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Tetrachloroethene	1.5	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	101	69-131		%REC	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	104	72-134		%REC	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	100	69-133		%REC	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B
Toluene-d8(Surrogate)	99	80-128		%REC	1.0	8260B	N/A	11/20/04 11:48	JC	GCMS10_041119B



**TRANSWEST
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Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-05
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-1 deep
 Collection Date: 11/18/2004 10:50:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	106	69-133		%REC	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B
Toluene-d8(Surrogate)	100	80-128		%REC	1.0	8260B	N/A	11/20/04 12:23	JC	GCMS10_041119B



**TRANSWEST
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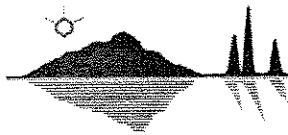
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CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-06
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-3 shallow
 Collection Date: 11/18/2004 11:30:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Tetrachloroethene	13	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	103	69-133		%REC	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B
Toluene-d8(Surrogate)	100	80-128		%REC	1.0	8260B	N/A	11/20/04 12:59	JC	GCMS10_041119B



**TRANSWEST
GEOCHEM**

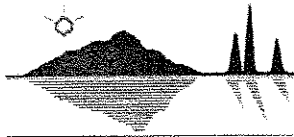
Date Printed 24-Nov-04

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CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-07
 Project Name: Cavecreek Landfill
 Project Number:

Client Sample ID: ODP-3 deep
 Collection Date: 11/18/2004 11:30:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Tetrachloroethene	11	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	104	69-131		%REC	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	109	69-133		%REC	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B
Toluene-d8(Surrogate)	99	80-128		%REC	1.0	8260B	N/A	11/20/04 13:34	JC	GCMS10_041119B



**TRANSWEST
GEOCHEM**

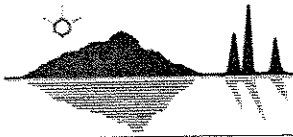
Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411306
 Lab ID: 0411306-08
 Project Name: Cavcreek Landfill
 Project Number:

Client Sample ID: ODP-4 Shallow
 Collection Date: 11/18/2004 11:45:00 AM
 Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Tetrachloroethene	0.87	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	108	69-131		%REC	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	106	72-134		%REC	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	115	69-133		%REC	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B
Toluene-d8(Surrogate)	100	80-128		%REC	1.0	8260B	N/A	11/20/04 14:10	JC	GCMS10_041119B



**TRANSWEST
GEOCHEM**

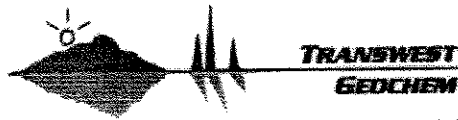
Date Printed 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411306
Lab ID: 0411306-09
Project Name: Cavecreek Landfill
Project Number:

Client Sample ID: ODP-2 deep
Collection Date: 11/18/2004 11:05:00 AM
Matrix: AIR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50	L1	µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
1,2-Dichloroethane-d4(Surrogate)	112	69-131		%REC	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
4-Bromofluorobenzene(Surrogate)	106	72-134		%REC	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Dibromofluoromethane(Surrogate)	122	69-133		%REC	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B
Toluene-d8(Surrogate)	103	80-128		%REC	1.0	8260B	N/A	11/20/04 14:44	JC	GCMS10_041119B



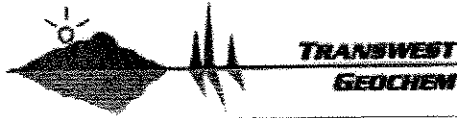
Date: 24-Nov-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0411306
 Project: Cavecreek Landfill

QC SUMMARY REPORT
 Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Bromoform	<1.0	1.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Bromomethane	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Chloroform	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Chloroethane	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Chloromethane	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Methylene chloride	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Toluene	<1.0	1.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Trichloroethene	<0.50	0.50		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
1,2-Dichloroethane-d4	99	69-131		%REC	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
4-Bromofluorobenzene	102	72-134		%REC	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Dibromofluoromethane	98	69-133		%REC	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B
Toluene-d8	84	80-128		%REC	1	8260B	N/A	11/20/04 4:17	JC	GCMS10_041119B



Date: 24-Nov-04

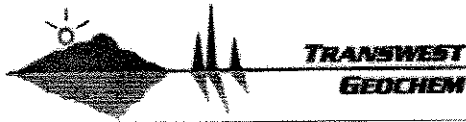
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CLIENT: SCS Engineers
 Work Order: 0411306
 Project: Cavcreek Landfill

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0411306-09AD		Batch ID: GCMS10_041119B									
Client ID: ODP-2 deep											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Tetrachloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Trichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	N/A	11/20/04 15:20	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	N/A	11/20/04 15:20	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	N/A	11/20/04 15:20	JC	



Date: 24-Nov-04
License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0411306
Project: Cavecreek Landfill

QC SUMMARY REPORT
Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCS 11/19	Batch ID: GCMS10_041119B		Test Code: 8260B			Date Analyzed: 11/20/04 04:52		Date Prepared: N/A			
	Units: µg/L										
Benzene	10.59	0.50	10.00	<0.50	106%	63	120				
Bromodichloromethane	9.980	0.50	10.00	<0.50	100%	42	135				
Bromoform	9.685	1.0	10.00	<1.0	97%	0	146				
Bromomethane	16.38	5.0	15.00	<5.0	109%	24	161				
Carbon tetrachloride	10.33	0.50	10.00	<0.50	103%	57	144				
Chlorobenzene	9.455	0.50	10.00	<0.50	95%	20	133				
Chloroform	12.40	0.50	10.00	<0.50	124%	48	132				
Chloroethane	18.24	5.0	15.00	<5.0	122%	34	141				
Chloromethane	15.47	5.0	15.00	<5.0	103%	0	199				
Dibromochloromethane	9.760	0.50	10.00	<0.50	98%	36	138				
1,2-Dichlorobenzene	8.170	0.50	10.00	<0.50	82%	0	122				
1,3-Dichlorobenzene	8.480	0.50	10.00	<0.50	85%	0	123				
1,4-Dichlorobenzene	8.215	0.50	10.00	<0.50	82%	0	118				
Dichlorodifluoromethane	14.42	5.0	15.00	<5.0	96%	0	291				
1,1-Dichloroethane	14.32	0.50	10.00	<0.50	143%	49	134				L1
1,2-Dichloroethane	10.51	0.50	10.00	<0.50	105%	44	135				
1,1-Dichloroethene	12.21	1.0	10.00	<1.0	122%	49	140				
cis-1,2-Dichloroethene	12.03	0.50	10.00	<0.50	120%	53	127				
trans-1,2-Dichloroethene	11.73	0.50	10.00	<0.50	117%	54	129				
1,2-Dichloropropane	10.26	0.50	10.00	<0.50	103%	60	119				
cis-1,3-Dichloropropene	9.740	0.50	10.00	<0.50	97%	45	126				
trans-1,3-Dichloropropene	9.385	0.50	10.00	<0.50	94%	38	126				
Ethylbenzene	9.080	1.0	10.00	<1.0	91%	29	124				
Methylene chloride	11.48	5.0	10.00	<5.0	115%	43	145				
1,1,2,2-Tetrachloroethane	8.935	1.0	10.00	<1.0	89%	0	129				
Tetrachloroethene	9.040	0.50	10.00	<0.50	90%	44	136				
Toluene	8.895	1.0	10.00	<1.0	89%	48	122				
1,1,1-Trichloroethane	10.76	0.50	10.00	<0.50	108%	59	133				
1,1,2-Trichloroethane	9.725	0.50	10.00	<0.50	97%	43	123				
Trichloroethene	9.760	0.50	10.00	<0.50	98%	56	124				
Trichlorofluoromethane	20.15	5.0	15.00	<5.0	134%	20	169				
Vinyl chloride	33.59	5.0	15.00	<5.0	224%	0	330				
Xylenes, Total	28.03	1.5	30.00	<1.5	93%	22	130				
1,2-Dichloroethane-d4	27.63	0.50	25.00	N/A	111%	69	131				
4-Bromofluorobenzene	25.31	0.50	25.00	N/A	101%	72	134				
Dibromofluoromethane	31.22	0.50	25.00	N/A	125%	69	133				
Toluene-d8	24.53	0.50	25.00	N/A	98%	80	128				



**TRANSWEST
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3725 E. Atlanta Ave., Ste 2
Phoenix, Arizona 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 301
Tucson, Arizona 85714
Phone: (520) 573-1061
Fax: (520) 573-1063

Chain of Custody

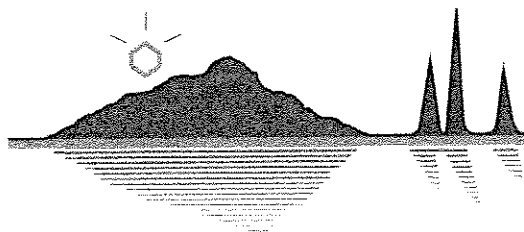
TGI Work Order No: 0411306
Date 4/11/04 Page 1 of 1

Project Manager:	<u>Brad Johnston</u>		
Client Name:	<u>S&S Engineers</u>		
Address:	<u>2702 N. W. 1st St Suite 105B</u>		
City, State ZIP:	<u>Phoenix AZ 85008-1583</u>		
Phone:	<u>602 840 2516</u>	Fax:	<u>602 224-0547</u>
P.O. No.:			
Project Name:	<u>Cave Creek Washfill</u>		
Project Number:			
Temperature:	<u>Amb</u>	Ice:	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Absent Present	
Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Wet / Blue	
Total No. of Containers:	<u>9</u>		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Comments
					TPH, 8015AZR.1	BTEX (8021B)	
ODP-2 shallow	Air	11/15/04	1105	1			
R-5			1330	2			
ODP-4 deep			1145	3			
ODP-1 shallow			1050	4			
ODP-1 deep			1050	5			
ODP-2 shallow			1130	6			
ODP-3 deep			1130	7			
ODP-4 shallow			1145	8			
ODP-2 deep			1105	9			
					8 RCRA Metals		
					PAH, EPA 8310		
					PCB's, (8082)		
					Organochlorine Pesticides (608/8081)		
					Semi-Volatile Organics GCMS (625/8270)		
					SDWA Volatiles, (524.2)		
					Volatile Organics GCMS (624/8260AZ)		

Relinquished by: (Signature)	<u>Brad Johnston</u>	Received by: (Signature)	<u>Carey Cole</u>	Date/Time	<u>4/11/04</u>
Relinquished by: (Print Name)	<u>Brad Johnston</u>	Received by: (Print Name)	<u>Carey Cole</u>		



TRANSWEST
GEOCHEM

December 16, 2004

Brad Johnston
SCS Engineers
2702 N. 44th St., Suite 105B
Phoenix, AZ 85008

RE: 10203045.01/CAVE CK.

Work Order No.: 0412176

Dear Brad,

Transwest Geochem, Inc. received 12 samples on 12/8/2004 5:00:00 PM for the analyses presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,

Carlene McCutcheon
Project Manager

ADHS License No. AZM133/AZ0133

Date Printed: 16-Dec-04

Client: SCS Engineers
Work Order: 0412176
Project Name: 10203045.01
Project Number: CAVE CK.

Case Narrative

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 2.0 11/26/2003.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.



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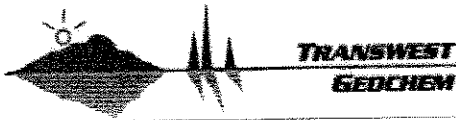
Date Printed 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: 10203045.01
Project Number: CAVE CK.
Work Order: 0412176
Date Received: 08-Dec-04

Work Order Sample Summary

Client Sample ID	Lab Sample ID	Test Code	Collection Date
ODP1-S	0412176-01A	8260B	12/8/2004 2:40:00 PM
ODP1-D	0412176-02A	8260B	12/8/2004 2:45:00 PM
ODP2-S	0412176-03A	8260B	12/8/2004 2:55:00 PM
ODP2-D	0412176-04A	8260B	12/8/2004 3:00:00 PM
ODP3-S	0412176-05A	8260B	12/8/2004 3:10:00 PM
ODP3-D	0412176-06A	8260B	12/8/2004 3:15:00 PM
ODP4-S	0412176-07A	8260B	12/8/2004 3:25:00 PM
ODP4-D	0412176-08A	8260B	12/8/2004 3:30:00 PM
NDP1-S	0412176-09A	8260B	12/8/2004 3:40:00 PM
NDP1-D	0412176-10A	8260B	12/8/2004 3:45:00 PM
NDP2-S	0412176-11A	8260B	12/8/2004 3:55:00 PM
NDP2-D	0412176-12A	8260B	12/8/2004 4:00:00 PM



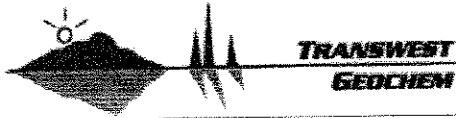
Date Printed 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: 10203045.01
Project Number: CAVE CK.
Work Order: 0412176
Date Received: 08-Dec-04

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Transwest Geochem can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.



Date Printed 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: 10203045.01
Project Number: CAVE CK.
Work Order: 0412176
Date Received: 08-Dec-04

References

Transwest Geochem, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, 1998.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement 1: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 418.1AZ: TPH in Soil, September 1994.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600 4-81-045, September 1982.



**TRANSWEST
GEOCHEM**

Date Printed 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0412176
Lab ID: 0412176-01
Project Name: 10203045.01
Project Number: CAVE CK.

Client Sample ID: ODPI-S
Collection Date: 12/8/2004 2:40:00 PM
Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,1-Dichloroethene	3.3	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	103	72-134		%REC	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	104	69-133		%REC	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B
Toluene-d8(Surrogate)	103	80-128		%REC	1.0	8260B	12/9/04	12/9/04 15:17	JC	GCMS10_041209B



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Date Printed 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-02
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: ODP1-D
 Collection Date: 12/8/2004 2:45:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	112	69-133		%REC	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B
Toluene-d8(Surrogate)	96	80-128		%REC	1.0	8260B	12/9/04	12/9/04 15:53	JC	GCMS10_041209B



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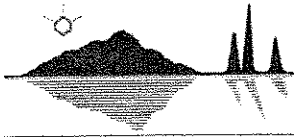
Date Printed 15-Dec-04

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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-03
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: ODP2-S
 Collection Date: 12/8/2004 2:55:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	111	69-133		%REC	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B
Toluene-d8(Surrogate)	94	80-128		%REC	1.0	8260B	12/9/04	12/9/04 16:28	JC	GCMS10_041209B



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CLIENT: SCS Engineers
Work Order: 0412176
Lab ID: 0412176-04
Project Name: 10203045.01
Project Number: CAVE CK.

Client Sample ID: ODP2-D
Collection Date: 12/8/2004 3:00:00 PM
Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	102	69-131		%REC	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	111	69-133		%REC	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B
Toluene-d8(Surrogate)	95	80-128		%REC	1.0	8260B	12/9/04	12/9/04 17:39	JC	GCMS10_041209B



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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-05
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: ODP3-S
 Collection Date: 12/8/2004 3:10:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Tetrachloroethene	1.9	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	115	69-133		%REC	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B
Toluene-d8(Surrogate)	100	80-128		%REC	1.0	8260B	12/9/04	12/9/04 18:14	JC	GCMS10_041209B



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CLIENT: SCS Engineers
Work Order: 0412176
Lab ID: 0412176-06
Project Name: 10203045.01
Project Number: CAVE CK.

Client Sample ID: ODP3-D
Collection Date: 12/8/2004 3:15:00 PM
Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Tetrachloroethene	0.64	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	104	72-134		%REC	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	99	69-133		%REC	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B
Toluene-d8(Surrogate)	95	80-128		%REC	1.0	8260B	12/9/04	12/9/04 18:49	JC	GCMS10_041209B



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CLIENT: SCS Engineers
Work Order: 0412176
Lab ID: 0412176-07
Project Name: 10203045.01
Project Number: CAVE CK.

Client Sample ID: ODP4-S
Collection Date: 12/8/2004 3:25:00 PM
Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	100	69-131		%REC	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	96	69-133		%REC	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B
Toluene-d8(Surrogate)	92	80-128		%REC	1.0	8260B	12/9/04	12/9/04 19:24	JC	GCMS10_041209B



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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-08
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: ODP4-D
 Collection Date: 12/8/2004 3:30:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	104	69-131		%REC	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	104	72-134		%REC	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	101	69-133		%REC	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B
Toluene-d8(Surrogate)	104	80-128		%REC	1.0	8260B	12/9/04	12/9/04 19:59	JC	GCMS10_041209B



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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-09
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: NDP1-S
 Collection Date: 12/8/2004 3:40:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Tetrachloroethene	1.5	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Trichloroethene	1.5	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	104	69-131		%REC	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	101	72-134		%REC	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	110	69-133		%REC	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B
Toluene-d8(Surrogate)	100	80-128		%REC	1.0	8260B	12/9/04	12/9/04 20:35	JC	GCMS10_041209B



**TRANSWEST
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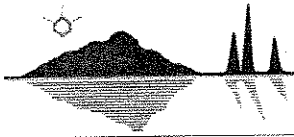
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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-10
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: NDP1-D
 Collection Date: 12/8/2004 3:45:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
cis-1,2-Dichloroethene	1.4	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Tetrachloroethene	1.3	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Trichloroethene	1.6	0.50		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Vinyl chloride	5.7	5.0		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
1,2-Dichloroethane-d4(Surrogate)	106	69-131		%REC	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
4-Bromofluorobenzene(Surrogate)	100	72-134		%REC	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Dibromofluoromethane(Surrogate)	115	69-133		%REC	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B
Toluene-d8(Surrogate)	101	80-128		%REC	1.0	8260B	12/9/04	12/9/04 21:10	JC	GCMS10_041209B



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CLIENT: SCS Engineers
Work Order: 0412176
Lab ID: 0412176-11
Project Name: 10203045.01
Project Number: CAVE CK.

Client Sample ID: NDP2-S
Collection Date: 12/8/2004 3:55:00 PM
Matrix: SOIL VAPOR

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Tetrachloroethene	1.4	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Trichloroethene	0.88	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
1,2-Dichloroethane-d4(Surrogate)	103	69-131		%REC	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
4-Bromofluorobenzene(Surrogate)	105	72-134		%REC	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Dibromofluoromethane(Surrogate)	96	69-133		%REC	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A
Toluene-d8(Surrogate)	105	80-128		%REC	1.0	8260B	12/10/04	12/10/04 11:13	JC	GCMS10_041210A



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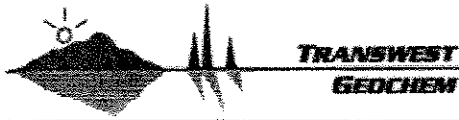
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CLIENT: SCS Engineers
 Work Order: 0412176
 Lab ID: 0412176-12
 Project Name: 10203045.01
 Project Number: CAVE CK.

Client Sample ID: NDP2-D
 Collection Date: 12/8/2004 4:00:00 PM
 Matrix: SOIL VAPOR

Analyte	Result	PQL	Quai	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Bromdichloromethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Dichlorodifluoromethane	14	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,1-Dichloroethane	1.1	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Tetrachloroethene	3.8	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Toluene	<1.0	1.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Trichloroethene	1.6	0.50		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
1,2-Dichloroethane-d4(Surrogate)	105	69-131		%REC	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
4-Bromofluorobenzene(Surrogate)	106	72-134		%REC	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Dibromofluoromethane(Surrogate)	102	69-133		%REC	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A
Toluene-d8(Surrogate)	98	80-128		%REC	1.0	8260B	12/10/04	12/10/04 11:48	JC	GCMS10_041210A

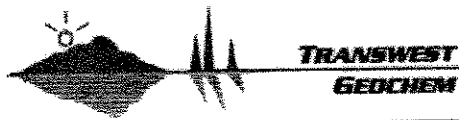


Date: 15-Dec-04
License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0412176
Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT
Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Bromoform	<1.0	1.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Bromomethane	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Chloroform	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Chloroethane	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Chloromethane	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Methylene chloride	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Toluene	<1.0	1.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Trichloroethene	<0.50	0.50		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
1,2-Dichloroethane-d4	103	69-131		%REC	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
4-Bromofluorobenzene	103	72-134		%REC	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Dibromofluoromethane	97	69-133		%REC	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B
Toluene-d8	107	80-128		%REC	1	8260B	12/9/04	12/9/04 14:07	JC	GCMS10_041209B



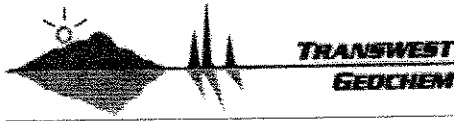
Date: 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0412176
 Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT
 Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Bromoform	<1.0	1.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Bromomethane	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Chloroform	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Chloroethane	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Chloromethane	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Methylene chloride	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Toluene	<1.0	1.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Trichloroethene	<0.50	0.50		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
1,2-Dichloroethane-d4	102	69-131		%REC	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
4-Bromofluorobenzene	103	72-134		%REC	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Dibromofluoromethane	88	69-133		%REC	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A
Toluene-d8	104	80-128		%REC	1	8260B	12/10/04	12/10/04 10:02	JC	GCMS10_041210A



Date: 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0412176
 Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT
 Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0412176-01AD Batch ID: GCMS10_041209B											
Client ID: ODP1-S											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,1-Dichloroethene	3.445	1.0	µg/L	3.315	4%	30	8260B	12/9/04	12/9/04 17:04	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Tetrachloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Trichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/9/04	12/9/04 17:04	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	12/9/04	12/9/04 17:04	JC	



Date: 15-Dec-04

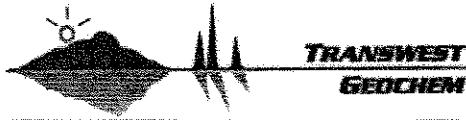
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CLIENT: SCS Engineers
 Work Order: 0412176
 Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0412176-11AD		Batch ID: GCMS10_041210A									
Client ID: NDP2-S											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Bromofom	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Dichlorodifluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
cis-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Tetrachloroethene	1.380	0.50	µg/L	1.420	3%	30	8260B	12/10/04	12/10/04 13:04	JC	
Toluene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Trichloroethene	0.8550	0.50	µg/L	0.8750	2%	30	8260B	12/10/04	12/10/04 13:04	JC	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	12/10/04	12/10/04 13:04	JC	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	12/10/04	12/10/04 13:04	JC	



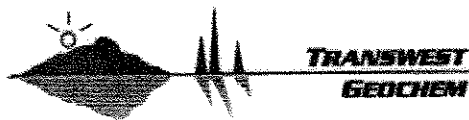
Date: 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0412176
 Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT
 Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSV 12/09	Batch ID: GCMS10_041209B		Test Code: 8260B			Date Analyzed: 12/09/04 14:42		Date Prepared: 12/9/04			
	Units: µg/L										
Benzene	8.735	0.50	10.00	<0.50	87%	63	120				
Bromodichloromethane	8.450	0.50	10.00	<0.50	85%	42	135				
Bromoform	7.340	1.0	10.00	<1.0	73%	0	146				
Bromomethane	12.52	5.0	15.00	<5.0	83%	24	161				
Carbon tetrachloride	9.530	0.50	10.00	<0.50	95%	57	144				
Chlorobenzene	7.815	0.50	10.00	<0.50	78%	20	133				
Chloroform	9.470	0.50	10.00	<0.50	96%	48	132				
Chloroethane	14.17	5.0	15.00	<5.0	94%	34	141				
Chloromethane	12.81	5.0	15.00	<5.0	85%	0	199				
Dibromochloromethane	8.090	0.50	10.00	<0.50	81%	36	138				
1,2-Dichlorobenzene	5.675	0.50	10.00	<0.50	57%	0	122				
1,3-Dichlorobenzene	6.040	0.50	10.00	<0.50	60%	0	123				
1,4-Dichlorobenzene	5.680	0.50	10.00	<0.50	57%	0	118				
Dichlorodifluoromethane	11.01	5.0	15.00	<5.0	73%	0	291				
1,1-Dichloroethane	11.11	0.50	10.00	<0.50	111%	49	134				
1,2-Dichloroethane	8.700	0.50	10.00	<0.50	87%	44	135				
1,1-Dichloroethene	9.665	1.0	10.00	<1.0	97%	49	140				
cis-1,2-Dichloroethene	9.475	0.50	10.00	<0.50	95%	53	127				
trans-1,2-Dichloroethene	9.600	0.50	10.00	<0.50	96%	54	129				
1,2-Dichloropropane	8.645	0.50	10.00	<0.50	86%	60	119				
cis-1,3-Dichloropropene	8.315	0.50	10.00	<0.50	83%	45	126				
trans-1,3-Dichloropropene	7.335	0.50	10.00	<0.50	73%	38	126				
Ethylbenzene	7.750	1.0	10.00	<1.0	78%	29	124				
Methylene chloride	10.08	5.0	10.00	<5.0	101%	43	145				
1,1,2,2-Tetrachloroethane	6.645	1.0	10.00	<1.0	66%	0	129				
Tetrachloroethene	8.135	0.50	10.00	<0.50	81%	44	136				
Toluene	7.695	1.0	10.00	<1.0	77%	48	122				
1,1,1-Trichloroethane	9.105	0.50	10.00	<0.50	91%	59	133				
1,1,2-Trichloroethane	7.890	0.50	10.00	<0.50	79%	43	123				
Trichloroethene	8.540	0.50	10.00	<0.50	85%	56	124				
Trichlorofluoromethane	15.43	5.0	15.00	<5.0	103%	20	169				
Vinyl chloride	21.31	5.0	15.00	<5.0	142%	0	330				
Xylenes, Total	23.82	1.5	30.00	<1.5	79%	22	130				
1,2-Dichloroethane-d4	26.51	0.50	25.00	N/A	106%	69	131				
4-Bromofluorobenzene	25.55	0.50	25.00	N/A	102%	72	134				
Dibromofluoromethane	26.99	0.50	25.00	N/A	108%	69	133				
Toluene-d8	26.40	0.50	25.00	N/A	106%	80	128				



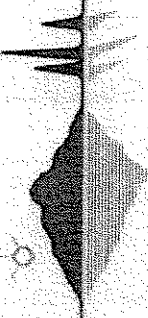
Date: 15-Dec-04

License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0412176
 Project: 10203045.01/CAVE CK.

QC SUMMARY REPORT
 Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSV 12/10	Batch ID: GCMS10_041210A		Test Code: 8260B			Date Analyzed: 12/10/04 10:38		Date Prepared: 12/10/04			
	Units: µg/L										
Benzene	8.780	0.50	10.00	<0.50	88%	63	120				
Bromodichloromethane	8.275	0.50	10.00	<0.50	83%	42	135				
Bromoform	6.655	1.0	10.00	<1.0	67%	0	146				
Bromomethane	11.65	5.0	15.00	<5.0	78%	24	161				
Carbon tetrachloride	10.36	0.50	10.00	<0.50	104%	57	144				
Chlorobenzene	6.780	0.50	10.00	<0.50	68%	20	133				
Chloroform	8.270	0.50	10.00	<0.50	83%	48	132				
Chloroethane	12.65	5.0	15.00	<5.0	84%	34	141				
Chloromethane	12.28	5.0	15.00	<5.0	82%	0	199				
Dibromochloromethane	7.730	0.50	10.00	<0.50	77%	36	138				
1,2-Dichlorobenzene	4.265	0.50	10.00	<0.50	43%	0	122				
1,3-Dichlorobenzene	4.590	0.50	10.00	<0.50	46%	0	123				
1,4-Dichlorobenzene	4.155	0.50	10.00	<0.50	42%	0	118				
Dichlorodifluoromethane	10.85	5.0	15.00	<5.0	72%	0	291				
1,1-Dichloroethane	8.835	0.50	10.00	<0.50	88%	49	134				
1,2-Dichloroethane	8.340	0.50	10.00	<0.50	83%	44	135				
1,1-Dichloroethene	7.885	1.0	10.00	<1.0	79%	49	140				
cis-1,2-Dichloroethene	7.430	0.50	10.00	<0.50	74%	53	127				
trans-1,2-Dichloroethene	8.485	0.50	10.00	<0.50	85%	54	129				
1,2-Dichloropropane	8.525	0.50	10.00	<0.50	85%	60	119				
cis-1,3-Dichloropropene	7.555	0.50	10.00	<0.50	76%	45	126				
trans-1,3-Dichloropropene	6.340	0.50	10.00	<0.50	63%	38	126				
Ethylbenzene	7.265	1.0	10.00	<1.0	73%	29	124				
Methylene chloride	8.250	5.0	10.00	<5.0	83%	43	145				
1,1,2,2-Tetrachloroethane	5.955	1.0	10.00	<1.0	60%	0	129				
Tetrachloroethene	8.060	0.50	10.00	<0.50	81%	44	136				
Toluene	7.540	1.0	10.00	<1.0	75%	48	122				
1,1,1-Trichloroethane	9.250	0.50	10.00	<0.50	93%	59	133				
1,1,2-Trichloroethane	7.625	0.50	10.00	<0.50	76%	43	123				
Trichloroethene	8.720	0.50	10.00	<0.50	87%	56	124				
Trichlorofluoromethane	13.34	5.0	15.00	<5.0	89%	20	169				
Vinyl chloride	21.81	5.0	15.00	<5.0	145%	0	330				
Xylenes, Total	21.94	1.5	30.00	<1.5	73%	22	130				
1,2-Dichloroethane-d4	26.02	0.50	25.00	N/A	104%	69	131				
4-Bromofluorobenzene	25.59	0.50	25.00	N/A	102%	72	134				
Dibromofluoromethane	22.75	0.50	25.00	N/A	91%	69	133				
Toluene-d8	26.27	0.50	25.00	N/A	105%	80	128				



**TRANSWEST
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3725 E. Atlanta Ave., Ste 2
Phoenix, Arizona 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

3860 S. Palo Verde Rd., Ste. 301
Tucson, Arizona 85714
Phone: (520) 573-1061
Fax: (520) 573-1063

Chain of Custody
TGI Work Order No: 0112176
Date 12/18/00 Page 1 of 1

Project Manager: BRAD JOHNSON
Client Name: SS
Address:
City, State ZIP:
Phone: Fax:

Bill to:
Company:
Address:
City, State ZIP:
Phone: Fax:

P.O. No.:
Project Name: 10203045.01
Project Number: CAVE CK.

ANALYSIS REQUEST

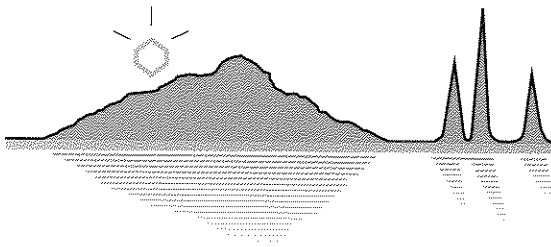
SAMPLE RECEIPT

Temperature:
Received Intact: Yes No N/A
Custody Seals: Yes No N/A
Total No. of Containers: 12

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	Job		Comments
					Yes	No	
DDP 1-S	VAPOR	12/18	14:40	1			
DDP 1-D			14:45	2			
ODP 2-S			15:55	3			
ODP 2-D			15:00	4			
ODP 3-S			15:10	5			
ODP 3-D			15:15	6			
DDP 4-S			15:25	7			
DDP 4-D			15:30	8			
NDP 1-S			15:40	9			
NDP 1-D			15:45	10			
NDP 2-S			16:55	11			
NDP 2-D			16:00	12			

Requisitioned by: (Signature) [Signature] (Print Name) BRAD JOHNSON

Received by: (Signature) [Signature] (Print Name) SK Johnson Date/Time 12/18/00



TRANSWEST
GEOCHEM

June 17, 2005

Brad Johnston
SCS Engineers
2702 N. 44th St., Suite 105B
Phoenix, AZ 85008

RE: Cave Creek LF/203045.01
Work Order No.: 0506227

Dear Brad,

Transwest Geochem, Inc. received 4 samples on 6/9/2005 2:11:00 PM for the analyses presented in the following report.

The Case Narrative of this report addresses any Quality Control and/or Quality Assurance issues associated with this Work Order.

If you have any questions regarding these test results, please feel free to call us at (602) 437-0330.

Sincerely,

Carlene McCutcheon
Project Manager

ADHS License No. AZM133/AZ0133

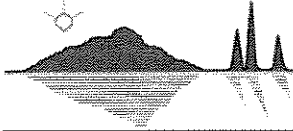
Date Printed: 17-Jun-05

Client: SCS Engineers
Work Order: 0506227
Project Name: Cave Creek LF
Project Number: 203045.01

Case Narrative

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 2.0 11/26/2003.

Data qualifiers ("flags") contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.



**TRANSWEST
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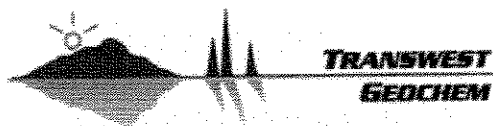
Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek LF
Project Number: 203045.01
Work Order: 0506227
Date Received: 09-Jun-05

Work Order Sample Summary

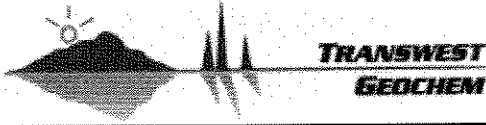
Client Sample ID	Lab Sample ID	Test Code	Collection Date
NDP-1 Shallow	0506227-01A	8260B	6/9/2005 12:41:00 PM
NDP-1 deep	0506227-02A	8260B	6/9/2005 12:49:00 PM
NDP-2 Shallow	0506227-03A	8260B	6/9/2005 1:00:00 PM
NDP-2 deep	0506227-04A	8260B	6/9/2005 1:15:00 PM



CLIENT: SCS Engineers
Project Name: Cave Creek LF
Project Number: 203045.01
Work Order: 0506227
Date Received: 09-Jun-05

Definitions

Analytical Spike (AS)	The AS is a known amount of a target analyte added to a sample after it has been distilled, digested, or extracted and is ready for analysis. The AS is generally performed if the MS has failed. It is used to indicate interference that arises from sample distillation, digestion, or extraction as opposed to interference that is innate to the matrix.
Continuing Curve Verification (CCV)	The CCV is also referred to as a curve check. This is a standard analyzed at specified intervals during an analysis. The CCV verifies the stability and accuracy of the calibration curve. There are specific CCV recovery acceptance criteria for each method.
Dilution Factor (DF)	The DF is an indication of how much a sample had to be diluted in order to quantitate it on a standard curve. The DF is indicated in the reported sample result. The sample PQL increases as the dilution increases.
Internal Standard (IS)	The IS is a compound that is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. The same concentration of IS is added to every sample for some organic methods.
Laboratory Control Sample (LCS)	The LCS is also referred to as a blank spike. The LCS is an addition of a known amount of a target analyte (from the same source as calibration standards or spikes) to an aliquot of deionized water or other appropriate clean matrix. The LCS is processed through the entire method procedure in the same manner as samples.
Matrix Spike (MS)	The MS is a known amount of a target analyte added to a sample. The MS is processed through the entire method procedure in the same manner as samples.
Method Blank (MB)	The MB is an aliquot of deionized water or other appropriate clean matrix that is thought to be free of the analyte in question. The MB is processed through the entire extraction or analysis procedure and is used to indicate contamination in the lab.
Method Detection Limit (MDL)	The MDL is the lowest level of detection of which a method is capable.
Practical Quantitation Limit (PQL)	The PQL is the lowest value at which Transwest Geochem can detect an analyte in matrix with a high degree of confidence. The PQL will increase as the DF increases. The PQL is greater than or equal to the MDL.
Relative Percent Difference (RPD)	The RPD is a measure of precision (the ability to obtain the same result on re-analysis of the same sample). It is calculated using the result of a sample, MS, LCS, or LCSV and its associated duplicate result.
Secondary Source QC Sample (LCSV)	The LCSV is also referred to as a second source laboratory control sample. It is the same type of standard as a calibration or spiking standard but is obtained from a different source. The LCSV is an indication of the primary standard quality, method performance, and instrument performance.
Surrogate	A surrogate compound is similar to the organic compound of interest in terms of chemical composition but is unique in that it is rare in the environment. When surrogates are used, they are added to every sample, blank and standard. Surrogate recovery is used as an indication of extraction and/or analytical success.
Trip Blank (TB)	The TB is a portion of deionized water preserved in the same manner as the samples. The TB travels from the lab, to the field, and then back to the lab with the samples from the field. The TB serves as an indication of contamination introduced during sample transportation.



Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Project Name: Cave Creek LF
Project Number: 203045.01
Work Order: 0506227
Date Received: 09-Jun-05

References

Transwest Geochem, Inc. uses the methods outlined in the following references:

Code of Federal Regulations, 40CFR, Part 136, Appendix A, 1998.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, Revised August 1993.

Methods for the Determination of Metals in Environmental Samples, Supplement 1: EPA/600/R-94/111, Revised May 1994.

Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revised July, 1991; EPA-600/4-90/020, Supplement I, July 1990; EPA-600/R-92/129; Supplement II, August 1992; EPA-600/R-95/131, Supplement III, August 1995.

Hach, Water Analysis Handbook, 3rd Edition, 1997.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, 1986 including Update I, July 1992; Update IIA, August 1993; Update II; September 1994; Update IIB, January 1995; Update III, December 1996

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 418.1AZ: TPH in Soil, September 1994.

Bureau of Laboratory Services, State of Arizona Department of Health Services Method 8015AZ.R1, September 1998. (Comment: C6-C10 GRO reported by this method is not to be used in compliance situations)

ASTM MethodD4982, Annual Book of ASTM Standards, Volumes 11.01 and 11.02, 1995

The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils, EPA-600 4-81-045, September 1982.



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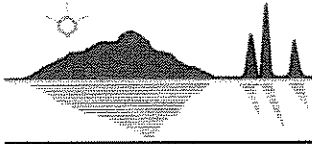
Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0506227
Lab ID: 0506227-01
Project Name: Cave Creek LF
Project Number: 203045.01

Client Sample ID: NDP-1 Shallow
Collection Date: 6/9/2005 12:41:00 PM
Matrix: Air

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Dichlorodifluoromethane	8.5	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
cis-1,2-Dichloroethene	1.1	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Tetrachloroethene	8.0	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Toluene	2.1	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Trichloroethene	8.3	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
1,2-Dichloroethane-d4(Surrogate)	101	58-144		%REC	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
4-Bromofluorobenzene(Surrogate)	101	62-138		%REC	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Dibromofluoromethane(Surrogate)	96	58-139		%REC	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A
Toluene-d8(Surrogate)	102	57-136		%REC	1.0	8260B	6/10/05	6/10/05 10:32	BH	GCMS10_050610A



**TRANSWEST
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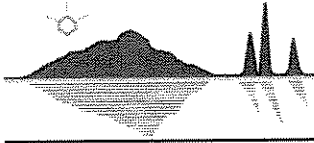
Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0506227
Lab ID: 0506227-02
Project Name: Cave Creek LF
Project Number: 203045.01

Client Sample ID: NDP-1 deep
Collection Date: 6/9/2005 12:49:00 PM
Matrix: Air

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Dichlorodifluoromethane	11	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,1-Dichloroethane	0.51	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
cis-1,2-Dichloroethene	1.6	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Tetrachloroethene	9.6	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Toluene	2.2	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Trichloroethene	15	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Trichlorofluoromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
1,2-Dichloroethane-d4(Surrogate)	104	58-144		%REC	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
4-Bromofluorobenzene(Surrogate)	103	62-138		%REC	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Dibromofluoromethane(Surrogate)	100	58-139		%REC	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A
Toluene-d8(Surrogate)	103	57-136		%REC	1.0	8260B	6/10/05	6/10/05 11:09	BH	GCMS10_050610A



**TRANSWEST
GEOCHEM**

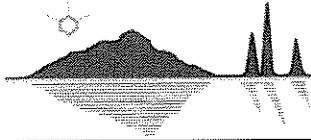
Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0506227
Lab ID: 0506227-03
Project Name: Cave Creek LF
Project Number: 203045.01

Client Sample ID: NDP-2 Shallow
Collection Date: 6/9/2005 1:00:00 PM
Matrix: Air

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Dichlorodifluoromethane	14	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,1-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Tetrachloroethene	5.2	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Toluene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Trichloroethene	4.7	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Trichlorofluoromethane	5.4	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
1,2-Dichloroethane-d4(Surrogate)	104	58-144		%REC	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
4-Bromofluorobenzene(Surrogate)	98	62-138		%REC	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Dibromofluoromethane(Surrogate)	103	58-139		%REC	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A
Toluene-d8(Surrogate)	101	57-136		%REC	1.0	8260B	6/10/05	6/10/05 11:45	BH	GCMS10_050610A



**TRANSWEST
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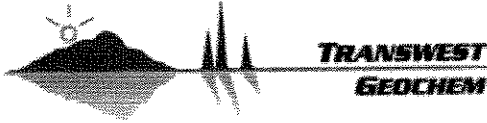
Date Printed 14-Jun-05

License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0506227
Lab ID: 0506227-04
Project Name: Cave Creek LF
Project Number: 203045.01

Client Sample ID: NDP-2 deep
Collection Date: 6/9/2005 1:15:00 PM
Matrix: Air

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Bromoform	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Bromomethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Chlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Chloroform	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Chloroethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Chloromethane	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Dichlorodifluoromethane	17	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,1-Dichloroethane	0.91	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,2-Dichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,1-Dichloroethene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Ethylbenzene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Methylene chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,1,2,2-Tetrachloroethane	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Tetrachloroethene	6.4	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Toluene	<1.0	1.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Trichloroethene	3.4	0.50		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Trichlorofluoromethane	6.5	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Vinyl chloride	<5.0	5.0		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Xylenes, Total	<1.5	1.5		µg/L	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
1,2-Dichloroethane-d4(Surrogate)	99	58-144		%REC	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
4-Bromofluorobenzene(Surrogate)	100	62-138		%REC	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Dibromofluoromethane(Surrogate)	88	58-139		%REC	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A
Toluene-d8(Surrogate)	102	57-136		%REC	1.0	8260B	6/10/05	6/10/05 12:25	BH	GCMS10_050610A

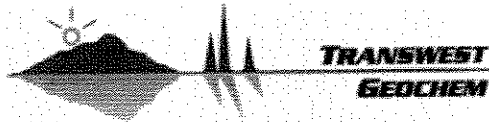


Date: 14-Jun-05
License No. AZM133/AZ0133

CLIENT: SCS Engineers
Work Order: 0506227
Project: Cave Creek LF/203045.01

QC SUMMARY REPORT
Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Benzene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Bromodichloromethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Bromoform	<1.0	1.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Bromomethane	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Carbon tetrachloride	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Chlorobenzene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Chloroform	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Chloroethane	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Chloromethane	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Dibromochloromethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,2-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,3-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,4-Dichlorobenzene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Dichlorodifluoromethane	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,1-Dichloroethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,2-Dichloroethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,1-Dichloroethene	<1.0	1.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,2-Dichloropropane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
cis-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Ethylbenzene	<1.0	1.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Methylene chloride	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,1,1,2-Tetrachloroethane	<1.0	1.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Tetrachloroethene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Toluene	<1.0	1.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,1,1-Trichloroethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,1,2-Trichloroethane	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Trichloroethene	<0.50	0.50		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Trichlorofluoromethane	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Vinyl chloride	<5.0	5.0		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Xylenes, Total	<1.5	1.5		µg/L	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
1,2-Dichloroethane-d4	97	58-144		%REC	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
4-Bromofluorobenzene	100	62-138		%REC	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Dibromofluoromethane	90	58-139		%REC	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A
Toluene-d8	103	57-136		%REC	1	8260B	6/10/05	6/10/05 9:21	BH	GCMS10_050610A



Date: 14-Jun-05

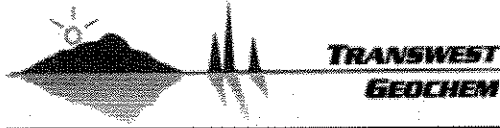
License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0506227
 Project: Cave Creek LF/203045.01

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: 0506227-01AD		Batch ID: GCMS10_050610A									
Client ID: NDP-1 Shallow											
Benzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Bromodichloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Bromoform	<1.0	1.0	µg/L	<1.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Bromomethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Carbon tetrachloride	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Chlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Chloroform	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Chloroethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Chloromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Dibromochloromethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,2-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,3-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,4-Dichlorobenzene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Dichlorodifluoromethane	7.425	5.0	µg/L	8.525	14%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,1-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,2-Dichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,1-Dichloroethene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
cis-1,2-Dichloroethene	0.9450	0.50	µg/L	1.145	19%	30	8260B	6/10/05	6/10/05 13:01	BH	
trans-1,2-Dichloroethene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,2-Dichloropropane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
cis-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
trans-1,3-Dichloropropene	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Ethylbenzene	<1.0	1.0	µg/L	<1.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Methylene chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,1,2,2-Tetrachloroethane	<1.0	1.0	µg/L	<1.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Tetrachloroethene	7.935	0.50	µg/L	7.980	1%	30	8260B	6/10/05	6/10/05 13:01	BH	
Toluene	2.170	1.0	µg/L	2.060	5%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,1,1-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
1,1,2-Trichloroethane	<0.50	0.50	µg/L	<0.50	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Trichloroethene	8.485	0.50	µg/L	8.340	2%	30	8260B	6/10/05	6/10/05 13:01	BH	
Trichlorofluoromethane	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Vinyl chloride	<5.0	5.0	µg/L	<5.0	0%	30	8260B	6/10/05	6/10/05 13:01	BH	
Xylenes, Total	<1.5	1.5	µg/L	<1.5	0%	30	8260B	6/10/05	6/10/05 13:01	BH	

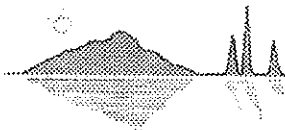


Date: 14-Jun-05
 License No. AZM133/AZ0133

CLIENT: SCS Engineers
 Work Order: 0506227
 Project: Cave Creek LF/203045.01

QC SUMMARY REPORT
 Secondary Source Blank Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCSV 6/10	Batch ID: GCMS10_050610A		Test Code: 8260B			Date Analyzed: 06/10/05 09:57		Date Prepared: 6/10/05			
	Units: µg/L										
Benzene	9.370	0.50	10.00		94%	53	123				
Bromodichloromethane	9.585	0.50	10.00		96%	64	132				
Bromoform	8.040	1.0	10.00		80%	0	148				
Bromomethane	14.78	5.0	15.00		99%	30	129				
Carbon tetrachloride	9.725	0.50	10.00		97%	52	141				
Chlorobenzene	8.675	0.50	10.00		87%	0	138				
Chloroform	8.710	0.50	10.00		87%	51	126				
Chloroethane	15.63	5.0	15.00		104%	19	151				
Chloromethane	14.76	5.0	15.00		98%	12	145				
Dibromochloromethane	9.015	0.50	10.00		90%	15	139				
1,2-Dichlorobenzene	6.305	0.50	10.00		63%	0	131				
1,3-Dichlorobenzene	6.615	0.50	10.00		66%	0	131				
1,4-Dichlorobenzene	6.315	0.50	10.00		63%	0	127				
Dichlorodifluoromethane	16.53	5.0	15.00		110%	0	151				
1,1-Dichloroethane	8.860	0.50	10.00		89%	27	134				
1,2-Dichloroethane	9.305	0.50	10.00		93%	25	144				
1,1-Dichloroethene	8.695	1.0	10.00		87%	50	134				
cis-1,2-Dichloroethene	8.685	0.50	10.00		87%	52	124				
trans-1,2-Dichloroethene	8.370	0.50	10.00		84%	62	115				
1,2-Dichloropropane	9.740	0.50	10.00		97%	53	120				
cis-1,3-Dichloropropene	9.855	0.50	10.00		99%	32	126				
trans-1,3-Dichloropropene	9.315	0.50	10.00		93%	24	122				
Ethylbenzene	8.755	1.0	10.00		88%	19	119				
Methylene chloride	10.01	5.0	10.00		100%	44	141				
1,1,2,2-Tetrachloroethane	7.820	1.0	10.00		78%	30	127				
Tetrachloroethene	9.370	0.50	10.00		94%	31	128				
Toluene	9.195	1.0	10.00		92%	39	120				
1,1,1-Trichloroethane	9.395	0.50	10.00		94%	61	129				
1,1,2-Trichloroethane	9.295	0.50	10.00		93%	0	150				
Trichloroethene	9.620	0.50	10.00		96%	55	116				
Trichlorofluoromethane	15.26	5.0	15.00		102%	30	136				
Vinyl chloride	16.97	5.0	15.00		113%	8	160				
Xylenes, Total	25.605	1.5	30.00		85%	5	128				
1,2-Dichloroethane-d4	24.64	0.50	25.00		99%	58	144				
4-Bromofluorobenzene	24.94	0.50	25.00		100%	62	138				
Dibromofluoromethane	22.57	0.50	25.00		90%	58	139				
Toluene-d8	25.02	0.50	25.00		100%	57	136				



**TRANSWEST
GEOCHEM**

3725 East Atlanta Avenue, Suite 2
Phoenix, Arizona 85040-2960

Phone: (602) 437-0330

Fax: (602) 437-0660

Date: 13-Jun-05

Time: 11:16 AM

From: Carlene McCutcheon

Number of pages being sent 3 (Including this page)

To: **Name:** Brad Johnston
Company: SCS Engineers
Phone: (602) 840-2596
Fax: (602) 224-0572
Project: Cave Creek LF / 203045.01

Included are preliminary results for work order 0506227 , received 09-Jun-05
If you have any questions or comments, please call Carlene McCutcheon.

0506227-01A NDP-1 Shallow

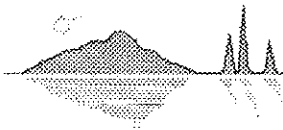
Test Method	8260B	6/10/2005
1,1,1-Trichloroethane	<0.50	µg/L
1,1,2,2-Tetrachloroethane	<1.0	µg/L
1,1,2-Trichloroethane	<0.50	µg/L
1,1-Dichloroethane	<0.50	µg/L
1,1-Dichloroethene	<1.0	µg/L
1,2-Dichlorobenzene	<0.50	µg/L
1,2-Dichloroethane	<0.50	µg/L
1,2-Dichloropropane	<0.50	µg/L
1,3-Dichlorobenzene	<0.50	µg/L
1,4-Dichlorobenzene	<0.50	µg/L
Benzene	<0.50	µg/L
Bromodichloromethane	<0.50	µg/L
Bromoform	<1.0	µg/L
Bromomethane	<5.0	µg/L
Carbon tetrachloride	<0.50	µg/L
Chlorobenzene	<0.50	µg/L
Chloroethane	<5.0	µg/L
Chloroform	<0.50	µg/L
Chloromethane	<5.0	µg/L

cis-1,2-Dichloroethene	1.1	µg/L
cis-1,3-Dichloropropene	<0.50	µg/L
Dibromochloromethane	<0.50	µg/L
Dichlorodifluoromethane	8.5	µg/L
Ethylbenzene	<1.0	µg/L
Methylene chloride	<5.0	µg/L
Tetrachloroethene	8.0	µg/L
Toluene	2.1	µg/L
trans-1,2-Dichloroethene	<0.50	µg/L
trans-1,3-Dichloropropene	<0.50	µg/L
Trichloroethene	8.3	µg/L
Trichlorofluoromethane	<5.0	µg/L
Vinyl chloride	<5.0	µg/L
Xylenes, Total	<1.5	µg/L

0506227-02A NDP-1 deep

Test Method	8260B	6/10/2005
1,1,1-Trichloroethane	<0.50	µg/L
1,1,2,2-Tetrachloroethane	<1.0	µg/L
1,1,2-Trichloroethane	<0.50	µg/L

PRELIMINARY REPORT - This data has not gone through Transwest Geochem Quality Assurance protocol.



Brad Johnston
SCS Engineers
(602) 840-2596
(602) 224-0572

Work Order: 0506227
Project: Cave Creek LF / 203045.01

			Test Method 8260B	6/10/2005	
1,1-Dichloroethane	0.51	µg/L	1,1,1-Trichloroethane	<0.50	µg/L
1,1-Dichloroethene	<1.0	µg/L	1,1,2,2-Tetrachloroethane	<1.0	µg/L
1,2-Dichlorobenzene	<0.50	µg/L	1,1,2-Trichloroethane	<0.50	µg/L
1,2-Dichloroethane	<0.50	µg/L	1,1-Dichloroethane	<0.50	µg/L
1,2-Dichloropropane	<0.50	µg/L	1,1-Dichloroethene	<1.0	µg/L
1,3-Dichlorobenzene	<0.50	µg/L	1,2-Dichlorobenzene	<0.50	µg/L
1,4-Dichlorobenzene	<0.50	µg/L	1,2-Dichloroethane	<0.50	µg/L
Benzene	<0.50	µg/L	1,2-Dichloropropane	<0.50	µg/L
Bromodichloromethane	<0.50	µg/L	1,3-Dichlorobenzene	<0.50	µg/L
Bromoform	<1.0	µg/L	1,4-Dichlorobenzene	<0.50	µg/L
Bromomethane	<5.0	µg/L	Benzene	<0.50	µg/L
Carbon tetrachloride	<0.50	µg/L	Bromodichloromethane	<0.50	µg/L
Chlorobenzene	<0.50	µg/L	Bromoform	<1.0	µg/L
Chloroethane	<5.0	µg/L	Bromomethane	<5.0	µg/L
Chloroform	<0.50	µg/L	Carbon tetrachloride	<0.50	µg/L
Chloromethane	<5.0	µg/L	Chlorobenzene	<0.50	µg/L
cis-1,2-Dichloroethene	1.6	µg/L	Chloroethane	<5.0	µg/L
cis-1,3-Dichloropropene	<0.50	µg/L	Chloroform	<0.50	µg/L
Dibromochloromethane	<0.50	µg/L	Chloromethane	<5.0	µg/L
Dichlorodifluoromethane	11	µg/L	cis-1,2-Dichloroethene	<0.50	µg/L
Ethylbenzene	<1.0	µg/L	cis-1,3-Dichloropropene	<0.50	µg/L
Methylene chloride	<5.0	µg/L	Dibromochloromethane	<0.50	µg/L
Tetrachloroethene	9.6	µg/L	Dichlorodifluoromethane	14	µg/L
Toluene	2.2	µg/L	Ethylbenzene	<1.0	µg/L
trans-1,2-Dichloroethene	<0.50	µg/L	Methylene chloride	<5.0	µg/L
trans-1,3-Dichloropropene	<0.50	µg/L	Tetrachloroethene	5.2	µg/L
Trichloroethene	15	µg/L	Toluene	<1.0	µg/L
Trichlorofluoromethane	<5.0	µg/L	trans-1,2-Dichloroethene	<0.50	µg/L
Vinyl chloride	<5.0	µg/L	trans-1,3-Dichloropropene	<0.50	µg/L
Xylenes, Total	<1.5	µg/L	Trichloroethene	4.7	µg/L
			Trichlorofluoromethane	5.4	µg/L
			Vinyl chloride	<5.0	µg/L

0506227-03A NDP-2 Shallow

PRELIMINARY REPORT - This data has not gone through Transwest Geochem Quality Assurance protocol.



**TRANSWEST
GEOCHEM**

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(602) 840-2596
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Work Order: **0506227**
Project: **Cave Creek LF / 203045.01**

Xylenes, Total	<1.5	µg/L	trans-1,3-Dichloropropene	<0.50	µg/L
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Trichloroethene	3.4	µg/L
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Trichlorofluoromethane	6.5	µg/L
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Vinyl chloride	<5.0	µg/L
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Xylenes, Total	<1.5	µg/L
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0506227-04A NDP-2 deep

Test Method 8260B	6/10/2005
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1,1,1-Trichloroethane	<0.50	µg/L
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1,1,2,2-Tetrachloroethane	<1.0	µg/L
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1,1,2-Trichloroethane	<0.50	µg/L
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1,1-Dichloroethane	0.91	µg/L
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1,1-Dichloroethene	<1.0	µg/L
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1,2-Dichlorobenzene	<0.50	µg/L
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1,2-Dichloroethane	<0.50	µg/L
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1,2-Dichloropropane	<0.50	µg/L
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1,3-Dichlorobenzene	<0.50	µg/L
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1,4-Dichlorobenzene	<0.50	µg/L
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Benzene	<0.50	µg/L
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Bromodichloromethane	<0.50	µg/L
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Bromoform	<1.0	µg/L
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Bromomethane	<5.0	µg/L
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Carbon tetrachloride	<0.50	µg/L
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Chlorobenzene	<0.50	µg/L
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Chloroethane	<5.0	µg/L
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Chloroform	<0.50	µg/L
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Chloromethane	<5.0	µg/L
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cis-1,2-Dichloroethene	<0.50	µg/L
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cis-1,3-Dichloropropene	<0.50	µg/L
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Dibromochloromethane	<0.50	µg/L
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Dichlorodifluoromethane	17	µg/L
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Ethylbenzene	<1.0	µg/L
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Methylene chloride	<5.0	µg/L
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Tetrachloroethene	6.4	µg/L
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Toluene	<1.0	µg/L
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trans-1,2-Dichloroethene	<0.50	µg/L
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PRELIMINARY REPORT - This data has not gone through Transwest Geochem Quality Assurance protocol.