Appendix G

IDW Management

Groundwater Investigation Related IDW Management

This appendix contains the analytical results associated with the disposal of monitor well drill cuttings and excavation associated with onsite activities.

During the groundwater investigation at the Site, water purged from wells during sampling was collected and containerized for temporary storage at the Middle Parcel. Composite samples were collected at the end of each sampling event and submitted to the analytical laboratory conducting the groundwater analyses. These results were subsequently submitted to the City of Phoenix for permission to discharge the purge water into the city sewer under a manhole entry permit. Analytical results from these analyses are NOT included here but are stored in the GeoTrans files.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.	Client Project ID: 808708313 106	Sampled: Oct 4, 1996
636 E. University Drive, Ste. 145		Received: Oct 4, 1996
Phoenix, AZ 85034	Sample Descript: Water, MW6DMW4M	Extracted: Oct 9, 1996
Attention: David Broermann	Lab Number: 6100320	Analyzed: Oct 9, 1996
		Reported: Oct 10, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	**0.50**	**3.0**
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**4.3**
Chloromethane	1.0	N.D.
Dibromochloromethane	**0.50**	**2.4**
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1-Dichloroethene	0.50	N.D.
s-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	95%
aaa-Trifluorotoluene	96%

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Hydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Client Project ID: 808708313 106
Sample Descript: Water, MW6DMW4M
Lab Number: 6100320

Sampled: Oct 4, 1996
Received: Oct 4, 1996
Extracted: Oct 10, 1996
Analyzed: Oct 10, 1996
Reported: Oct 10, 1996

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Cyanide (Total)	SM4500-CN C,E	0.025	N.D.
Cyanide (Amenable)	SM4500-CN-G	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428).

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

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Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Method Blank

Extracted: Oct 5-8, 1996
Analyzed: Oct 5-9, 1996
Reported: Oct 10, 1996
Matrix: Water

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	N.D.
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	200.7	0.025	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.0050	N.D.
Zinc	200.7	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

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QC DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 10/9/96

Sample #: P6100224

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Aluminum	0.13	1.0	1.2	1.2	107%	107%	0.0%	107%
Antimony	0	1.0	1.0	1.0	100%	100%	0.0%	100%
Arsenic	0	1.0	0.98	0.98	98%	98%	0.0%	98%
Barium	0.097	1.0	1.1	1.1	100%	100%	0.0%	100%
Beryllium	0.00017	1.0	1.0	1.0	86%	81%	0.0%	84%
Boron	0.21	1.0	1.2	1.2	99%	99%	0.0%	99%
Cadmium	0.0025	1.0	0.97	0.97	97%	97%	0.0%	97%
Calcium	41	10	52	52	110%	110%	0.0%	110%
Chromium	0	1.0	0.97	0.98	97%	98%	1.0%	98%
Cobalt	0.00088	1.0	0.96	0.95	96%	95%	1.0%	96%
Copper	0.054	1.0	1.1	1.1	105%	105%	0.0%	105%
Iron	0.27	1.0	1.3	1.3	103%	103%	0.0%	103%
Lead	0.0023	1.0	0.97	0.96	97%	96%	1.0%	96%
Magnesium	19	10	30	30	110%	110%	0.0%	110%
Manganese	0.010	1.0	0.98	0.98	97%	97%	0.0%	97%
Molybdenum	0.0042	1.0	1.1	1.1	110%	110%	0.0%	110%
Nickel	0.00024	1.0	0.94	0.95	94%	95%	1.1%	95%
Selenium	0.0028	1.0	1.0	1.0	100%	100%	0.0%	100%
Silver	0.010	0.050	0.057	0.056	94%	92%	1.8%	93%
Sodium	160	50	210	210	100%	100%	0.0%	100%
Strontium	0.50	1.0	1.4	1.4	90%	90%	0.0%	90%
Thallium	0.0075	1.0	0.95	0.94	94%	93%	1.1%	94%
Tin	0	1.0	1.0	1.0	100%	100%	0.0%	100%
Vanadium	0.0077	1.0	1.0	1.0	99%	99%	0.0%	99%
Zinc	0.10	1.0	1.1	1.1	100%	100%	0.0%	100%

R1 . . . . . Result of Sample Analysis
Sp . . . . . Spike Concentration Added to Sample
MS . . . . . Matrix Spike Result
MSD . . . . . Matrix Spike Duplicate Result
PR1 . . . . . Percent Recovery of MS; (MS-R1) / SP x 100
PR2 . . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD . . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **QA/QC CRITERIA: All QA/QC was within acceptance limits**

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QC DATA REPORT

EPA METHOD: **SM 4500-CN-C,E**
Matrix: Water

DATE: 10/10/96

SAMPLE # FJ01269

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Cyanide	0	0.10	0.080	0.080	80%	80%	0.0%	80%

Definition of Terms:

. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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Hydro-Search, Inc.
336 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Client Project ID: 808708313 117
Sample Descript: Water, MW6 & MW7 AT
Lab Number: 6110444

Sampled: Nov 12, 1996
Received: Nov 12, 1996
Extracted: Nov 13, 1996
Analyzed: Nov 13, 1996
Reported: Nov 14, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**2.7**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)
Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	107%
aaa-Trifluorotoluene	100%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.	Client Project ID: 808708313 117	Sampled: Nov 12, 1996
636 E. University Drive, Ste. 145		Received: Nov 12, 1996
Phoenix, AZ 85034	Sample Descript: Water, MW6 & MW7 AT	Extracted: Nov 13, 1996
Attention: David Broermann	Lab Number: 6110444	Analyzed: Nov 13, 1996
		Reported: Nov 14, 1996

LABORATORY ANALYSIS

Analyte	EPA Metho	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Cyanide (Amenable)	SM4500-CN-G	0.025	N.D.
Cyanide (Total)	SM4500-CN,C-E	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Method Blank

Extracted: Nov 12-13, 1996
Analyzed: Nov 12-13, 1996
Reported: Nov 13, 1996
Matrix: Water

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	N.D.
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	200.7	0.025	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.0050	N.D.
Zinc	200.7	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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MS/MSD DATA REPORT

EPA Method 601/602

Matrix: Water

Date: 11/13/96
Sample #: Blank
Batch #: FK13111W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppm	ppm	ppm	ppm	%	%	%	%	RPD	Mean PR
Benzene	0	10	9.4	9.4	94	94	0.10	94*	≤ 10	95-113
Chloroform	0.31	10	9.9	11	96	110	13	103	≤ 25	75-130
1,1-Dichloroethane	0	10	11	11	107	114	5.8	111	≤ 10	93-115
1,2-Dichloroethane	0	10	10	9.9	102	99	3.4	100	≤ 10	94-114
,1-Dichloroethene	0	10	10	11	104	112	7.9	108	≤ 10	94-114
Tetrachloroethene	0.065	10	9.8	11	98	105	7.5	101	≤ 10	92-116
Toluene	0	10	9.1	9.2	91	92	0.15	92	≤ 10	90-118
Trichloroethene	0	10	9.9	9.4	99	94	5.1	97	≤ 10	89-119

*QC results are not within acceptance limits.
When applicable, see corrective action report.

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) x 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) x 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) x 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by In-House Control Charts

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QC DATA REPORT

EPA METHOD: 245.1
Matrix: Water

DATE: 11/13/96

SAMPLE # P6110444

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0.11	5.0	5.6	5.6	110%	110%	0.0%	110%

Definition of Terms:

1. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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CHAIN OF CUSTODY FORM

Client Name/Address: [illegible]

Project/PO Number: [illegible]

Project Manager/Phone Number: [illegible]

Sampler: [illegible]

Analysis Required

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Special Instructions
[illegible]	[illegible]			[illegible]		X	X	X	X	X	X	X	X	X	

Relinquished By:	Date /Time:	Received by:	Date /Time:
[illegible]	[illegible]		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time:
		[illegible]	[illegible]

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice ____

Note: Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: 808708313/107
Sample Descript: Water, WOC-SW-1
Lab Number: 6111192

Sampled: Nov 26, 1996
Received: Nov 26, 1996
Extracted: Dec 9, 1996
Analyzed: Dec 9, 1996
Reported: Dec 10, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1-Dichloroethene	0.50	N.D.
-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	84%
aaa-Trifluorotoluene	99%

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Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: 808708313/107
Sample Descript: Water, Trip Blank
Lab Number: 6111194

Sampled: Nov 26, 1996
Received: Nov 26, 1996
Extracted: Dec 9, 1996
Analyzed: Dec 9, 1996
Reported: Dec 10, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1-Dichloroethene	0.50	N.D.
-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	89%
aaa-Trifluorotoluene	98%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: 808708313/107
Sample Descript: Water, WOC-SW-2
Lab Number: 6111193

Sampled: Nov 26, 1996
Received: Nov 26, 1996
Extracted: Dec 2-9, 1996
Analyzed: Dec 2-9, 1996
Reported: Dec 10, 1996

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Alkalinity	SM 2320B	2.0	180
Ammonia-NH3*	350.3	0.50	N.D.
Chemical Oxygen Demand	410.4	20	32
Chloride	300.0	5.0**	95
Cyanide*	SM4500-CN-C,E	0.025	N.D.
Specific Conductance	SM 2510B	1.0	1,000
Sulfate	300.0	5.0**	230
Total Dissolved Solids	SM2540C	5.0	610
Total Organic Carbon*	415.2	1.0	5.8
Total Suspended Solids	160.2	5.0	580

***Analysis was completed at Del Mar Analytical-IRVINE (AZ0428).**

****Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix and/or other factors, the sample required dilution. Detection limits for this sample were raised by a factor of 10.**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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CORRECTIVE ACTION REPORT

Department:	GC	Method:	601/602
Date:	12/09/96	Matrix:	Water

Identification and Definition of Problem:

The Relative Percent Difference was flagged as outside of in-house acceptance limits for 1,1-Dichloroethane and Trichloroethene.

Determination of the Cause of the Problem:

Matrix interference in the sample may have affected the area around the retention time of 1,1-Dichloroethane. Due to high levels of precision and accuracy in past sample batches, the in-house acceptance level for Trichloroethene becomes very narrow and therefore does not reflect a true range of acceptance.

Corrective Action:

The Laboratory Control Sample and the Midpoint are within EPA acceptance limits for 1-1-Dichloroethane. The Relative Percent Difference for Trichloroethene is also within EPA acceptance limits. No corrective action was necessary.

Jennifer A. Vilaboy: JA Vilaboy Date: 12/23/96
Laboratory Manager

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QC DATA REPORT

EPA METHOD: **SM 4500-CN-C,E**
Matrix: Water

DATE: 12/6/96

SAMPLE # FK04880

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Cyanide	0	0.10	0.10	0.096	100%	96%	4.1%	98%

Definition of Terms:

R1. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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QC DATA REPORT

EPA METHOD: 350.3
Matrix: Water

DATE: 12/9/96

SAMPLE # FK01045

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Ammonia	0	1.0	0.81	0.89	81%	89%	9.4%	85%

Definition of Terms:

R1. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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CHAIN OF CUSTODY FORM

Client Name/Address: [illegible] Tech, [illegible] Phoenix, AZ 85[illegible]

Project/PO Number: [illegible]

Project Manager/Phone Number: Steve A. Smith [illegible]

Sampler: Mark Nielsen/[illegible]

Analysis Required

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Special Instructions
[illegible] SW-1	W	[illegible]	2	11/26/96 1030												
[illegible] SW-2	W	[illegible]	2	11/26/96 [illegible]												
Trip Blank	W	[illegible]	1			X										

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (check)	
Mark Nielsen	11/26/96 1636			same day ____	72 hours ____
Relinquished By:	Date /Time:	Received by:	Date /Time:	24 hours ____	5 days ____
				48 hours ____	normal X
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time:	Sample Integrity: (Check)	
		[illegible]	11/26/96 1636	intact [illegible]	on ic[illegible]

Note: Sample[illegible] will be [illegible]sed o[illegible] 30 d[illegible]

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Hydro-Search, Inc.	Client Project ID: 808708313/107	Sampled: Dec 23, 1996
1636 E. University Drive, Ste. 145		Received: Dec 23, 1996
Phoenix, AZ 85034	Sample Descript: Water, WOC-PW	Extracted: Dec 23, 1996
Attention: David Broermann	Lab Number: 6121007	Analyzed: Dec 23, 1996
		Reported: Dec 26, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	104%
aaa-Trifluorotoluene	100%

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2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Client Project ID: 808708313/107
Sample Descript: Water, WOC-PW
Lab Number: 6121007

Sampled: Dec 23, 1996
Received: Dec 23, 1996
Extracted: Dec 27, 1996
Analyzed: Dec 27, 1996
Reported: Dec 27, 1996

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Amenable Cyanide	SM4500-CN-G	0.025	N.D.
Cyanide	SM4500-CN,C-E	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428).

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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Hydro-Search, Inc.
1636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Method Blank

Extracted: Dec 23, 1996
Analyzed: Dec 23, 1996
Reported: Dec 26, 1996
Matrix: Water

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	97%
aaa-Trifluorotoluene	99%

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MS/MSD DATA REPORT

EPA Method 601/602

Matrix: Water

Date: 12/23/96
Sample #: P6120712
Batch #: FL23121W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppm	ppm	ppm	ppm	%	%	%	%	RPD	Mean PR
Benzene	0	5.0	4.6	4.8	91	96	5.5	94	≤ 10	70-130
Chloroform	0	5.0	5.5	5.4	111	108	2.3	109	≤ 10	70-130
1,1-Dichloroethane	0	5.0	5.8	5.4	115	108	6.4	112	≤ 10	70-130
-Dichloroethane	0	5.0	5.3	5.2	105	105	0.61	105	≤ 10	70-130
1,1-Dichloroethene	0	5.0	4.7	4.7	94	95	0.38	94	≤ 10	70-130
Tetrachloroethene	0	5.0	5.3	5.0	105	100	4.6	103	≤ 10	70-130
Toluene	0	5.0	4.6	4.2	91	84	8.7	87	≤ 10	70-130
Trichloroethene	1.3	5.0	5.3	5.2	106	104	1.7	105	≤ 10	70-130

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) x 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) x 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) x 100
Mean PR..... Mean Percent Recovery
eptance Limits..... Determined by In-House Control Charts

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QC DATA REPORT

EPA METHOD: **SM 4500-CN,C-E**
Matrix: Water

DATE: 12/27/96

SAMPLE # FL03638

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Cyanide	0	0.10	0.089	0.087	89%	87%	2.3%	88%

Definition of Terms:

. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

HSI Geotrans	Client Project ID: N386-117	Sampled: Feb 12, 1997
636 E. University Drive, Ste. 145		Received: Feb 12, 1997
Phoenix, AZ 85034	Sample Descript: Water, WOC-PW	Extracted: Feb 13, 1997
Attention: Steve Smith	Lab Number: 7020450	Analyzed: Feb 13, 1997
		Reported: Feb 20, 1997

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**4.9**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	96%
aaa-Trifluorotoluene	102%

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-117
Sample Descript: Water, WOC-PW
Lab Number: 7020450

Sampled: Feb 12, 1997
Received: Feb 12, 1997
Extracted: Feb 24, 1997
Analyzed: Feb 24, 1997
Reported: Feb 26, 1997

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Amenable Cyanide	SM4500-CN-G	0.025	N.D.
Cyanide, Total	SM4500-CN,C-E	0.025	N.D.

Analysis completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Method Blank

Extracted: Feb 12-14, 1997
Analyzed: Feb 12-14, 1997
Reported: Feb 20, 1997
Matrix: Water

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	N.D.
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	218.4	0.025	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.050	N.D.
Zinc	200.7	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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MS/MSD DATA REPORT

EPA METHOD: 245.1
Matrix: Water

DATE: 2/14/97

SAMPLE # P7020461

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	5.0	5.0	5.1	100%	102%	2.0%	101%

Definition of Terms:

. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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MS/MSD DATA REPORT

EPA METHOD: **SM4500-CN,C-E**
Matrix: Water

DATE: 2/24/97

SAMPLE # GB01698

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Cyanide	0	0.10	0.11	0.098	110%	98%	11.5%	104%

Definition of Terms:

R1 . . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-109
Sample Descript: Water, PT-1
Lab Number: 7041252

Sampled: Apr 26, 1997
Received: Apr 28, 1997
Extracted: Apr 29, 1997
Analyzed: Apr 29, 1997
Reported: May 9, 1997

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	13	N.D.
2-Chloroethylvinyl ether	13	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1-Dichloroethene	**2.5**	**8.4**
-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	**2.5**	**4.4**
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**130**
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.
Benzene	2.5	N.D.
Ethylbenzene	2.5	N.D.
Toluene	2.5	N.D.
Total Xylenes	7.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 5.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	97%
aaa-Trifluorotoluene	101%

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HSI Geotrans
36 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-109
Sample Descript: Water, H2O MW5S
Lab Number: 7041254

Sampled: Apr 26, 1997
Received: Apr 28, 1997
Extracted: Apr 29, 1997
Analyzed: Apr 29, 1997
Reported: May 9, 1997

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	13	N.D.
2-Chloroethylvinyl ether	13	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1-Dichloroethene	**2.5**	**5.6**
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	**2.5**	**3.2**
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**98**
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.
Benzene	2.5	N.D.
Ethylbenzene	2.5	N.D.
Toluene	2.5	N.D.
Total Xylenes	7.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 5.

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DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	98%
aaa-Trifluorotoluene	100%

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-109
Sample Descript: Water, Trip Blank PT2
Lab Number: 7041256

Received: Apr 28, 1997
Extracted: Apr 29, 1997
Analyzed: Apr 29, 1997
Reported: May 9, 1997

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	2.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	98%
aaa-Trifluorotoluene	101%

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-109
Sample Descript: Water, PT-1
Lab Number: 7041252

Sampled: Apr 26, 1997
Received: Apr 28, 1997
Extracted: 4/28-5/7, 1997
Analyzed: 4/28-5/7, 1997
Reported: May 9, 1997

LABORATORY ANALYSIS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Alkalinity	SM2320B	1.0	190
Ammonia as N*	SM4500-NH3F	0.50	N.D.
Chemical Oxygen Demand	410.4	20	32
Chloride	300.0	0.50	140
Cyanide**	SM4500-CN,C-E	0.025	N.D.
Specific Conductance (µmhos/cm)	SM2510B	1.0	860
Sulfate	300.0	0.50	62
Total Dissolved Solids	SM2540C	5.0	540
Total Organic Carbon**	415.1	1.0	4.6
Total Suspended Solids	160.2	5.0	18

***Analysis completed at Del Mar Analytical-COLTON (AZ0062).**

****Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)**

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geotrans
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: N386-109
Sample Descript: Water, PT-3
Lab Number: 7041255

Sampled: Apr 27, 1997
Received: Apr 28, 1997
Extracted: 4/28-5/7, 1997
Analyzed: 4/28-5/7, 1997
Reported: May 9, 1997

LABORATORY ANALYSIS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Alkalinity	SM2320B	1.0	170
Ammonia as N*	SM4500-NH3F	0.50	N.D.
Chemical Oxygen Demand	410.4	20	N.D.
Chloride	300.0	0.50	160
Cyanide**	SM4500-CN,C-E	0.025	N.D.
Specific Conductance (µmhos/cm)	SM2510B	1.0	860
Sulfate	300.0	0.50	60
Total Dissolved Solids	SM2540C	5.0	530
Total Organic Carbon**	415.1	1.0	4.5
Total Suspended Solids	160.2	5.0	N.D.

***Analysis completed at Del Mar Analytical-COLTON (AZ0062).**

****Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)**

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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LCS DATA REPORT

EPA Method 502.2

Matrix: Water

Date: 04/29/97

Batch #: GD29121W

Analyte	Spike Conc.	Result	% Recovery	ACP
Benzene	5.0	4.7	95	80 - 120 %
Chloroform	5.0	5.1	102	80 - 120 %
1,1-Dichloroethane	5.0	5.2	105	80 - 120 %
1,2-Dichloroethane	5.0	5.3	107	80 - 120 %
1,1-Dichloroethene	5.0	4.8	96	80 - 120 %
Tetrachloroethene	5.0	5.3	107	80 - 120 %
Toluene	5.0	4.8	95	80 - 120 %
Trichloroethene	5.0	5.6	112	80 - 120 %

Definition of Terms

LCS ..... Laboratory Control Sample
Spike Conc ..... Result of Sample Analysis
Result ..... Result of Laboratory Control Sample Analysis
%Recovery ..... Percent Recovery of LCS; ((Result - Spike Conc.) / Spike Conc.) X 100
ACP ..... Acceptance Limits for Percent Recovery

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Celebrating 10 years of service 1987-1997

Del Mar Analytical

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MS/MSD DATA REPORT

EPA METHOD: 415.1
Matrix: Water

DATE: 5/6/97

SAMPLE # GD03859

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Total Organic Carbon	2.3	13	15	15	98%	98%	0.0%	98%

Definition of Terms:

..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD 300.0
Instrument: IC
Matrix: Water

DATE: 4/30/97

SAMPLE # P7041346

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Fluoride	0	0.80	0.80	0.76	100%	95%	5.1%	98%
Chloride	1.1	1.2	2.3	2.3	100%	100%	0.0%	100%
Nitrite-N	0	0.24	0.22	0.24	92%	100%	8.7%	96%
Nitrate-N	0	0.90	0.91	0.91	101%	101%	0.0%	101%
Phosphate-HPO4	0	6.0	5.9	6.0	98%	100%	1.7%	99%
Sulfate-SO4	0.6	6.0	6.9	7.1	105%	108%	2.9%	107%

R1. . . . . Result of Sample Analysis

. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del MAr Analytical
QA/QC CRITERIA: All QA/QC was within acceptance limits.

Celebrating 10 years of service 1987-1997

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

HSI Geo Trans, Inc.
665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Client Project ID: N386-117
Sample Descript: Water, PW-3
Lab Number: 7051063

Sampled: May 27, 1997
Received: May 27, 1997
Extracted: May 30, 1997
Analyzed: May 30, 1997
Reported: Jun 9, 1997

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1-Chloro-3-fluorobenzene(80-120)..	100%
aaa-Trifluorotoluene(80-120).....	100%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.	Client Project ID: 808708313 115	Sampled: Oct 24, 1996
636 E. University Drive, Ste. 145		Received: Oct 24, 1996
Phoenix, AZ 85034	Sample Descript: Water, MW-3 DM	Extracted: Oct 25, 1996
Attention: D. Broermann	Lab Number: 6101363	Analyzed: Oct 25, 1996
		Reported: Oct 25, 1996

LABORATORY ANALYSIS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Cyanide (Amenable)	SM4500-CN-G	0.025	N.D.
Cyanide (Total)	SM4500-CN C,E	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428).

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

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Hydro-Search, Inc.
636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: D. Broermann

Method Blank

Extracted: Oct 25, 1996
Analyzed: Oct 24-26, 1996
Reported: Oct 28, 1996
Matrix: Water

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	N.D.
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	200.7	0.025	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.0050	N.D.
Zinc	200.7	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

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QC DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 10/26/96

Sample #: P6101363

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Arsenic	0.0044	1.0	0.92	0.86	92%	86%	6.7%	89%
Barium	0.027	1.0	0.87	0.82	84%	79%	5.9%	82%
Boron	0.23	1.0	1.2	1.2	97%	97%	0.0%	97%
Cadmium	0	1.0	0.87	0.83	87%	83%	4.7%	85%
Chromium	0.016	1.0	0.87	0.83	85%	81%	4.7%	83%
Copper	0	1.0	0.82	0.80	82%	80%	2.5%	81%
Lead	0.0024	1.0	0.82	0.77	82%	77%	6.3%	79%
Manganese	0.0023	1.0	0.85	0.80	85%	80%	6.1%	82%
Nickel	0	1.0	0.84	0.80	84%	80%	4.9%	82%
Selenium	0	1.0	0.91	0.87	91%	87%	4.5%	89%
Silver	0	0.050	0.041	0.038	82%	76%	7.6%	79%
Zinc	0.052	1.0	0.99	0.94	94%	89%	5.2%	91%

R1 . . . . . Result of Sample Analysis
Sp . . . . . Spike Concentration Added to Sample
MS . . . . . Matrix Spike Result
MSD . . . . . Matrix Spike Duplicate Result
PR1 . . . . . Percent Recovery of MS; (MS-R1) / SP x 100
PR2 . . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD . . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical QA/QC CRITERIA: All QA/QC was within acceptance limits

Del Mar Analytical

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QC DATA REPORT

EPA METHOD: 245.1
Matrix: Water

DATE: 10/25/96

SAMPLE # P6101363

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0.20	5.0	4.6	4.5	88%	86%	2.2%	87%

Definition of Terms:

1. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

N386-121

Del Mar Analytical

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HSI Geo Trans, Inc.
365 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGL01014

Sampled: Dec 15, 1997
Received: Dec 16, 1997
Extracted: Dec 17-18, 1997
Analyzed: Dec 17-19, 1997
Reported: Dec 19, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGL01014	MW13MSC	Soil	6010A, 7471A & 8021A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
)665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Client Project ID: N386-117

Sample Descript: Water, PW-3
Lab Number: 7051063

Sampled: May 27, 1997
Received: May 27, 1997
Extracted: Jun 3, 1997
Analyzed: Jun 3, 1997
Reported: Jun 9, 1997

LABORATORY ANALYSIS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Cyanide	SM4500-CN,C-E	0.025	N.D.
Cyanide, Amenable	SM4500-CN-G	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Method Blank

Extracted: Jun 1, 1997
Analyzed: Jun 1-4, 1997
Reported: Jun 9, 1997
Matrix: Water

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	N.D.
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.050	N.D.
Zinc	200.7	0.050	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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LCS DATA REPORT

EPA Method 601/602

Matrix: Water

Date: 05/30/97

Batch #: GE30121W

Analyte	Spike Conc.	Result	% Recovery	ACP
Benzene	5.0	4.6	91	80 - 120 %
Chloroform	5.0	5.4	108	80 - 120 %
1,1-Dichloroethane	5.0	5.6	112	80 - 120 %
1,2-Dichloroethane	5.0	5.2	104	80 - 120 %
1,1-Dichloroethene	5.0	4.5	90	80 - 120 %
Tetrachloroethene	5.0	5.2	105	80 - 120 %
Toluene	5.0	4.9	98	80 - 120 %
Trichloroethene	5.0	5.1	102	80 - 120 %

Definition of Terms

LCS ..... Laboratory Control Sample
Spike Conc ..... Result of Sample Analysis
Result ..... Result of Laboratory Control Sample Analysis
%Recovery ..... Percent Recovery of LCS; ((Result - Spike Conc.) / Spike Conc.) X 100
ACP ..... Acceptance Limits for Percent Recovery

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 6/4/97

Sample #: P7050888

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Arsenic	0.023	1.0	1.0	1.0	98%	98%	0.0%	98%
Barium	0.055	1.0	1.0	1.0	95%	95%	0.0%	95%
Boron	0.99	1.0	2.0	2.0	101%	101%	0.0%	101%
Cadmium	0	1.0	0.93	0.95	93%	95%	2.1%	94%
Chromium	0.010	1.0	1.0	1.0	99%	99%	0.0%	99%
Copper	0.0023	1.0	1.0	1.0	100%	100%	0.0%	100%
Iron	0.18	10	10	10	98%	98%	0.0%	98%
Lead	0	1.0	0.89	0.90	89%	90%	1.1%	90%
Manganese	0.012	1.0	0.99	1.0	98%	99%	1.0%	98%
Molybdenum	0	1.0	0.94	0.95	94%	95%	1.1%	95%
Selenium	0.019	1.0	1.1	1.1	108%	108%	0.0%	108%
Silver	0	0.050	0.043	0.044	86%	88%	2.3%	87%
Zinc	0.20	1.0	1.2	1.2	100%	100%	0.0%	100%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **QA/QC CRITERIA: All QA/QC was within acceptance limits**

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MS/MSD DATA REPORT

EPA METHOD: **SM4500-CN,C-E**
Matrix: Water

DATE: 6/3/97

SAMPLE # GE04381

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Cyanide	0	0.10	0	0	0%	0%	0%	0%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; (MS-R1) / SP X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QA/QC CRITERIA: See LCS to validate batch.

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CHAIN OF CUSTODY FORM

Client Name/Address: HSI Geotrans

Project/PO Number: N386-117

Project Manager/Phone Number: Steve Smith / 894-2000

Sampler: Mark Nielsen / 894-2000

Analysis Required

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	601/602	Carbon Tet	Ammonia Nitrogen	As, Ba, Cd, Cr, Pb, Hg, Se	Zn	Total Lead				Special Instructions
PW-3	Water	Various	6	5-27-94 1500	Various	X	X	X	X	X	X				

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (check)
[illegible]	5-27-94 16:50			same day ____ 72 hours ____
Relinquished By:	Date /Time:	Received by:	Date /Time:	24 hours ____ 5 days ____
				48 hours ____ normal ____
Relinquished By:	Date /Time:	Received in Lab by: [illegible]	Date /Time: [illegible]	Sample Integrity: (Check) intact ____ on ice X

Note: Sample(s) will be disposed of after 30 days.

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HSI Geo Trans, Inc.
1665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Client Project ID: N386-117

Sample Descript: Water
First Sample #: 7060028

Sampled: Jun 2, 1997
Received: Jun 2, 1997
Extracted: Jun 3, 1997
Analyzed: Jun 3, 1997
Reported: Jun 10, 1997

CHROMIUM VI (EPA 7196)

Laboratory Number	Sample Description	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
7060028	PW-3	0.025	N.D.

Analysis was completed at Del Mar Analytical-IRVINE (AZ0428)

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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CHAIN OF CUSTODY FORM

Client Name/Address: HST Geotech

Project/PO Number: N380-117 107

Project Manager/Phone Number: Steve Smith

Sampler: M. Nielsen

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	Analysis Required: GH									Special Instructions
PW-3	Water	Poly	1	6/2/97 1530	HCl	X									

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (check)	
[illegible]	6/2/97 1600			same day ____	72 hours ____
Relinquished By:	Date /Time:	Received by:	Date /Time:	24 hours ____	5 days ____
				48 hours ____	normal X
Relinquished By:	Date /Time:	Received in Lab by: Valerie Lunny	Date /Time: 6/2/97 1600	Sample Integrity: (Check) intact ✓	on ice [illegible]

Note: Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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HSI Geo Trans, Inc.
565 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Client Project ID: 808708313 / 107 (N386)

Report Number: PGI00162

Sampled: Sep 3, 1997
Received: Sep 3, 1997
Extracted: Sep 4-15, 1997
Analyzed: Sep 4-15, 1997
Reported: Sep 17, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGI00162	WOG-PW	Water	601, 602, SM4500-CN,C-E, 200.7, 245.1, 218.4 & SM4500-CN-G

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Client Project ID: 808708313 / 107 (N386)
Sample Descript: Water, WOG-PW
Lab Number: PGI00163

Sampled: Sep 3, 1997
Received: Sep 3, 1997
Extracted: Sep 4-10, 1997
Analyzed: Sep 4-10, 1997
Reported: Sep 17, 1997

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	N.D.
Barium	200.7	0.050	0.083
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	218.4	0.025	N.D.
Copper	200.7	0.020	N.D.
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	N.D.
Mercury	245.1	0.00020	N.D.
Selenium	200.7	0.020	N.D.
Silver	200.7	0.050	N.D.
Zinc	200.7	0.050	0.92

Analytes reported as N.D. were not present at or above the reporting limit.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
365 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: Steve Smith

Method Blank

Extracted: Sep 11, 1997
Analyzed: Sep 11, 1997
Reported: Sep 17, 1997
Matrix: Water

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accpet. Limits):	
1-Chloro-3-fluorobenzene(80-120)..	91%
aaa-Trifluorotoluene(80-120).....	99%

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MS/MSD DATA REPORT

EPA Method 601/602

Matrix: Water

Date: 09/11/97

Sample #: PGI00104

Batch #: GI11121W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
Benzene	0	5.0	4.6	4.7	92	93	1.1	93	<30	39 - 150
Chloroform	0	5.0	5.0	5.0	100	99	0.48	100	<30	49 - 133
1,1-Dichloroethane	0	5.0	5.1	5.1	103	101	1.8	102	<30	47 - 132
1,2-Dichloroethane	0	5.0	5.0	5.2	100	105	5.1	102	<30	51 - 147
1,1-Dichloroethene	0	5.0	5.0	5.0	101	101	0.10	101	<30	28 - 167
Tetrachloroethene	0	5.0	5.0	5.0	100	100	0.94	100	<30	26 - 162
Toluene	0	5.0	4.5	4.5	89	91	1.9	90	<30	46 - 148
Trichloroethene	0	5.0	5.1	4.9	102	98	3.9	100	<30	35 - 146

Definition of Terms

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration added to sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR. . . . . Mean Percent Recovery
Acceptance Limits . . . . . Determined by EPA Method 601/602

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 9/10/97

Sample #: PGI00181

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	0	5.0	4.7	4.7	94%	94%	0.0%	94%
Copper	0.050	5.0	5.0	4.9	99%	97%	2.0%	98%
Lead	0.025	5.0	4.8	4.8	96%	96%	0.0%	96%
Zinc	0.18	5.0	5.0	4.9	96%	94%	2.0%	95%

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **All QA/QC was within acceptance limits.**

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MS/MSD DATA REPORT

EPA METHOD: **SM 4500-CN-C,E**
Matrix: Water

DATE: 9/15/97

AMPLE # GI00744

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR	Acceptance Limits RPD	Acceptance Limits Mean PR
	ppm	ppm	ppm	ppm	%	%	%	%		%
yanide	0	0.10	0.093	0.089	93%	89%	2.3%	91%	≤20	84-108%

Definition of Terms:

R1. . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

l Mar Analytical

QC CRITERIA: All QA/QC was within acceptance limits.

Celebrating 10 years of service 1987-1997

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Facsimile Cover Sheet

To: David Brownmann
Company: HSI-Lockheed
Fax:

From: Jeff Matsumoto
Company: Del Mar Analytical
Phone: (602) 968-8272
Fax: (602) 968-1338

Date: 1/8/98
Pages including this cover page: 5

Comments:
David - The metals results are tentative, but they should not change much. Please

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ISI Geo Trans, Inc.	Client Project ID: N386-121	Sampled:	Dec 30, 1997
4665 South Ash Ave., Ste. G-1		Received:	Dec 31, 1997
Tempe, AZ 85282	Sample Descript: Water, P2DM	Extracted:	Pending
Attention: David Broermann	Lab Number: PGL01770	Analyzed:	Pending
		Reported:	Pending

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	0.023
Barium	200.7	0.050	0.33
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	218.4	0.075*	N.D.
Copper	200.7	0.020	0.13
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	1.1
Mercury	245.1	0.00020	0.00033
Selenium	200.7	0.020	N.D.
Silver	200.7	0.050	N.D.
Zinc	200.7	0.050	0.39

Preliminary Results

*Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 3.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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CHAIN OF CUSTODY FORM

Client Name/Address: Hot GEOTRANS

Project/PO Number: N386-121

Project Manager/Phone Number: Attn David Broerman

Sampler: D Broerman

Analysis Required

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	601/602	METALS 200.7/245.1 TOTAL	CN (AMENABLE) SM 4500 CN	Cr6 218					Special Instructions
P2 DM	H2O	VAR.	6	12/30/97 1430	ICE	X	X	X	X	X				

Relinquished By: David Broerman Date /Time: 12/30/97 1510

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Relinquished By: Date /Time:

Received in Lab by: R R. Date /Time: 12/31/97 1570

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days X
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice X

Note: Sample(s) will be disposed of after 30 days.

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Hydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Client Project ID: 808708313 (115)
Sample Descript: Soil, MW-3DC
Lab Number: 6101100

Sampled: Oct 22, 1996
Received: Oct 22, 1996
Extracted: Oct 22, 1996
Analyzed: Oct 23, 1996
Reported: Oct 24, 1996

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	98%
aaa-Trifluorotoluene	101%

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Hydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Method Blank

Extracted: Oct 23, 1996
Analyzed: Oct 23, 1996
Reported: Oct 24, 1996
Matrix: Soil

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	98%
aaa-Trifluorotoluene	102%

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MS/MSD DATA REPORT

EPA Method 8010/8020

Matrix: Soil

Date: 10/23/96

Sample #: P6101100

Batch #: FJ237B1S

Analyte	R1 ppb	Sp ppb	MS ppb	MSD ppb	PR1 %	PR2 %	RPD %	Mean PR %	Acceptance Limits RPD	Acceptance Limits Mean PR
Benzene	0	50	49	48	97	95	2.0	96	≤14	77 - 127
Chloroform	0	50	53	52	107	104	2.9	105	≤19	70 - 130
1,1-Dichloroethane	0	50	47	45	93	91	2.5	92	≤18	70 - 130
1,2-Dichloroethane	0	50	42	43	83	86	3.5	85	≤16	76 - 128
1,1-Dichloroethene	0	50	43	43	86	86	1.0	86	≤22	70 - 130
Tetrachloroethene	0	50	46	47	93	95	2.2	94	≤20	70 - 130
Toluene	0	50	59	55	117	111	5.5	114	≤12	74 - 130
Trichloroethene	0	50	46	49	91	97	6.4	94	≤17	70 - 130

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits ..... Determined by in-house Control Charts

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QC DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 10/24/96

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Silver	0.0084	2.5	2.3	2.3	92%	92%	0.0%	92%

R1. . . . . .
Sp. . . . . Result of Sample Analysis
MS. . . . . Spike Concentration Added to Sample
MSD. . . . . Matrix Spike Result
PR1. . . . . Matrix Spike Duplicate Result
PR2. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
RPD. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
Del Mar Analytical QA/Q Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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CHAIN OF CUSTODY FORM

Client Name/Address: Hydro-Search 1636 E. University

Project/PO Number: 8X8708313 (115)

Project Manager/Phone Number: Paul Bergmann

Sampler: Paul Bergmann

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8010/8020	Metals								Special Instructions
MW-3 DC	Soil	Glass	2	10/2/96 1015	none	X	X								

Analysis Required

Relinquished By:	Date /Time:	Received by:	Date /Time:
[illegible]	10/2/96 1140		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by: [illegible]	Date /Time: [illegible]

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours X 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice X

Note: Sample(s) will be disposed of after 30 days.

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☐ FILE
N386-~~104~~ 119

ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N389-119-DW

Report Number: PGK00057

Sampled:	Nov 3, 1997
Received:	Nov 3, 1997
Extracted:	Nov 3-5, 1997
Analyzed:	Nov 3-5, 1997
Reported:	Nov 5, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGK00057	MW-100S-C	Soil	8021A, 6010A & 7471A
PGK00058	MW-102M-C	Soil	8021A, 6010A & 7471A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

J. Matsumoto

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N389-119-DW
Sample Descript: Soil, MW-102M-C
Lab Number: PGK00058

Sampled: Nov 3, 1997
Received: Nov 3, 1997
Extracted: Nov 3, 1997
Analyzed: Nov 3, 1997
Reported: Nov 5, 1997

HALOGENATED AND AROMATIC VOLATILES (EPA 8021A)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene	50	N.D.	Ethylbenzene	50	N.D.
Bromobenzene	50	N.D.	Hexachlorobutadiene	50	N.D.
Bromochloromethane	50	N.D.	Isopropylbenzene	50	N.D.
Bromodichloromethane	50	N.D.	p-Isopropyltoluene	50	N.D.
Bromoform	50	N.D.	Methylene chloride	100	N.D.
Bromomethane	100	N.D.	Naphthalene	50	N.D.
n-Butylbenzene	50	N.D.	n-Propylbenzene	50	N.D.
sec-Butylbenzene	50	N.D.	Styrene	50	N.D.
tert-Butylbenzene	50	N.D.	1,1,1,2-Tetrachloroethane	50	N.D.
Carbon tetrachloride	50	N.D.	1,1,2,2-Tetrachloroethane	50	N.D.
Chlorobenzene	100	N.D.	Tetrachloroethene	50	N.D.
Chloroethane	250	N.D.	Toluene	50	N.D.
Chloroform	50	N.D.	1,2,3-Trichlorobenzene	50	N.D.
Chloromethane	100	N.D.	1,2,4-Trichlorobenzene	50	N.D.
2-Chlorotoluene	50	N.D.	1,1,1-Trichloroethane	50	N.D.
4-Chlorotoluene	50	N.D.	1,1,2-Trichloroethane	50	N.D.
Dibromochloromethane	50	N.D.	Trichloroethene	50	N.D.
1,2-Dibromo-3-chloropropane	50	N.D.	Trichlorofluoromethane	50	N.D.
1,2-Dibromoethane	50	N.D.	1,2,3-Trichloropropane	50	N.D.
Dibromomethane	50	N.D.	1,2,4-Trimethylbenzene	50	N.D.
1,2-Dichlorobenzene	100	N.D.	1,3,5-Trimethylbenzene	50	N.D.
1,3-Dichlorobenzene	100	N.D.	Vinyl chloride	50	N.D.
1,4-Dichlorobenzene	100	N.D.	o-Xylene	50	N.D.
Dichlorodifluoromethane	50	N.D.	m,p-Xylenes	100	N.D.
1,1-Dichloroethane	50	N.D.			
1,2-Dichloroethane	50	N.D.			
1,1-Dichloroethene	50	N.D.			
cis-1,2-Dichloroethene	50	N.D.			
trans-1,2-Dichloroethene	50	N.D.			
1,2-Dichloropropane	50	N.D.			
1,3-Dichloropropane	50	N.D.			
2,2-Dichloropropane	50	N.D.			
1,1-Dichloropropene	50	N.D.			
cis-1,3-Dichloropropene	50	N.D.			
trans-1,3-Dichloropropene	50	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1-Chloro-3-fluorobenzene	82%
a,a,a-Trifluorotoluene	86%

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N389-119-DW

Sample Descript: Soil, MW-102M-C
Lab Number: PGK00058

Sampled: Nov 3, 1997
Received: Nov 3, 1997
Extracted: Nov 4-5, 1997
Analyzed: Nov 4-5, 1997
Reported: Nov 5, 1997

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	5.7
Barium	6010A	0.50	170
Cadmium	6010A	0.50	0.84
Chromium	6010A	2.0	23
Lead	6010A	2.5	3.5
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Nov 4-5, 1997
Analyzed: Nov 4-5, 1997
Reported: Nov 5, 1997
Matrix: Soil

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	N.D.
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	N.D.
Lead	6010A	2.5	N.D.
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 11/4/97

Sample #: PGK00057

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	2.1	500	430	440	86%	88%	2.3%	87%
Arsenic	1.6	50	44	52	85%	101%	16.7%	93%
Beryllium	0	50	46	54	92%	108%	16.0%	100%
Cadmium	0.45	50	44	52	87%	103%	16.7%	95%
Chromium	19	50	62	73	86%	108%	16.3%	97%
Copper	21	50	62	73	82%	104%	16.3%	93%
Lead	6.4	50	47	56	81%	99%	17.5%	90%
Nickel	19	50	61	72	84%	106%	16.5%	95%
Selenium	0	50	42	50	84%	100%	17.4%	92%
Silver	0.31	50	48	56	95%	111%	15.4%	103%
Thallium	0	500	440	440	88%	88%	0.0%	88%
Vanadium	17	50	60	71	86%	108%	16.8%	97%

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **All QA/QC was within acceptance limits.**

Celebrating 10 years of service 1987-1997

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: 7471
Matrix: Soil

DATE: 11/5/97

SAMPLE # PGK00058

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	1.7	16.65	20	20	110%	110%	0.0%	110%

Definition of Terms:

R1 . . . . . Result of Sample Analysis

Sp . . . . . Spike Concentration Added to Sample

MS . . . . . Matrix Spike Result

MSD . . . . . Matrix Spike Duplicate Result

PR1 . . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2 . . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD . . . . . Relative Percent Difference; ((MS-MSD)/(MS + MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: All QA/QC was within acceptance limits.

Celebrating 10 years of service 1987-1997

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Hydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Client Project ID: 808708313 106
Sample Descript: Soil, MW2DC
Lab Number: 6100660

Sampled: Oct 11, 1996
Received: Oct 11, 1996
Extracted: Oct 11, 1996
Analyzed: Oct 11, 1996
Reported: Oct 14, 1996

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	88%
aaa-Trifluorotoluene	98%

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ydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: Steve Smith

Method Blank

Extracted: Oct 11, 1996
Analyzed: Oct 11, 1996
Reported: Oct 14, 1996
Matrix: Soil

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
2-Dichloroethane	50	N.D.
l-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	103%
aaa-Trifluorotoluene	100%

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MS/MSD DATA REPORT

EPA Method 8010/8020

Matrix: Soil

Date: 10/11/96

Sample #: P6100660

Batch #: FJ117B1S

Analyte	R1 ppb	Sp ppb	MS ppb	MSD ppb	PR1 %	PR2 %	RPD %	Mean PR %	Acceptance Limits RPD	Acceptance Limits Mean PR
Benzene	0	50	53	76	106	153	36 *	129 *	≤14	77 - 127
Chloroform	0	50	59	53	118	106	11	112	≤19	70 - 130
1,1-Dichloroethane	0	50	60	55	120	110	8.8	115	≤18	70 - 130
1,2-Dichloroethane	0	50	53	49	107	99	7.8	103	≤16	76 - 128
1,1-Dichloroethene	0	50	57	54	114	109	4.4	111	≤22	70 - 130
Tetrachloroethene	0	50	55	52	110	104	6.1	107	≤20	70 - 130
Toluene	0	50	56	120	111	235	72 *	173 *	≤12	74 - 130
Trichloroethene	0	50	59	54	118	108	9.3	113	≤17	70 - 130

* QC results are not within acceptance limits
When applicable, see corrective action report

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by in-house Control Charts

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 10/14/96

Sample #: P6100536

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Arsenic	4.0	50	49	49	90%	90%	0.0%	90%
Barium	56	50	100	100	88%	88%	0.0%	88%
Cadmium	0.20	50	44	44	88%	88%	0.0%	88%
Chromium	18	50	63	64	90%	92%	1.6%	91%
Lead	6.4	50	49	49	85%	85%	0.0%	85%
Selenium	3.3	50	45	44	83%	81%	2.2%	82%
Silver	0	50	42	41	84%	82%	2.4%	83%

R1. . . . . .
Sp. . . . . Result of Sample Analysis
MS. . . . . Spike Concentration Added to Sample
MSD. . . . . Matrix Spike Result
PR1. . . . . Matrix Spike Duplicate Result
PR2. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
RPD. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
Del Mar Analytical QA/Q Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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CHAIN OF CUSTODY FORM

Client Name/Address: Hydro-Search 4630 E University Phx AZ

Project/PO Number: 80870831 3 106

Project Manager/Phone Number: David Bowman 894-1500

Sampler: David Bowman

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8010/8015	Cu Pb Metals									Special Instructions
MW2DC	water	glass	2	10/11/96 1030		X	X									

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (check)	
[illegible]	10/10/96 1100			same day ___	72 hours ___
Relinquished By:	Date /Time:	Received by:	Date /Time:	24 hours X	5 days ___
				48 hours ___	normal ___
Relinquished By:	Date /Time:	Received in Lab by: [illegible]	Date /Time: 10-11-96 1100	Sample Integrity: (Check) intact ✓	on ice ✓

Note: Sample(s) will be disposed of after 30 days.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.	Client Project ID: 808708313 115	Sampled: Oct 24, 1996
4636 E. University Drive, Ste. 145		Received: Oct 24, 1996
Phoenix, AZ 85034	Sample Descript: Water, MW-3 DM	Extracted: Oct 28, 1996
Attention: D. Broermann	Lab Number: 6101363	Analyzed: Oct 28, 1996
		Reported: Oct 28, 1996

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	**0.50**	**0.74**
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**1.1**
Chloromethane	1.0	N.D.
Dibromochloromethane	**0.50**	**0.76**
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.52**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Lucas Menendez
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	103%
aaa-Trifluorotoluene	103%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Sample Descript: Soil, MW13MSC
Lab Number: PGL01014

Sampled: Dec 15, 1997
Received: Dec 16, 1997
Extracted: Dec 17-18, 1997
Analyzed: Dec 17-19, 1997
Reported: Dec 19, 1997

TOTAL METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	91
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	13
Lead	6010A	2.5	N.D.
Mercury*	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analysis completed at Del Mar Analytical-COLTON (AZ0062).

Analytes reported as N.D. were not present at or above the reporting limit.

*DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Dec 17-18, 1997
Analyzed: Dec 17-19, 1997
Reported: Dec 19, 1997
Matrix: Soil

TOTAL METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	N.D.
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	N.D.
Lead	6010A	2.5	N.D.
Mercury*	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analysis completed at Del Mar Analytical-COLTON (AZ0062).

Analytes reported as N.D. were not present at or above the reporting limit.

***DEL MAR ANALYTICAL, PHOENIX (AZ0426)**

Jeff Matsumoto
Project Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 12/19/97

Sample #: C7120770

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic*	0	10	0	0	0%	0%	0%	0%
Barium	91	10	100	100	90%	90%	0%	90%
Cadmium	0	10	9.4	9.7	94%	97%	3.1%	96%
Chromium	13	10	23	23	100%	100%	0%	100%
Lead	0	10	9.4	9.2	94%	92%	2.2%	93%
Selenium*	0	10	0	0	0%	0%	0%	0%
Silver	0	10	8.1	8.6	81%	86%	6.0%	84%

R1 . . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical QA/QC CRITERIA: *QA/QC out of acceptance limits, see LCS for batch validation.

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MS/MSD DATA REPORT

EPA METHOD: 8021
Matrix: Soil

DATE: 12/18/97

SAMPLE #: PGL01014

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	44	44	88%	88%	0%	88%
Chloroform	0	50	45	46	90%	92%	2.2%	91%
1,1-Dichloroethane	0	50	48	47	96%	94%	2.1%	95%
1,2-Dichlororethane	0	50	36	38	72%	76%	5.4%	74%
1,1-Dichloroethene	0	50	37	35	74%	70%	5.6%	72%
Tetrachloroethene	0	50	49	50	98%	100%	2.0%	99%
Toluene	0	50	40	41	80%	82%	2.5%	81%
Trichloroethene	0	50	54	53	108%	106%	1.9%	107%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

N 300 - 121

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-340

HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-119

Report Number: PGL00821

Sampled: Dec 12, 1997
Received: Dec 12, 1997
Extracted: Dec 12-16, 1997
Analyzed: Dec 12-16, 1997
Reported: Dec 15-17, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGL00821	MW-103S-C	Soil	8021A, 6010A & 7471A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-119

Sample Descript: Soil, MW-103S-C
Lab Number: PGL00821

Sampled: Dec 12, 1997
Received: Dec 12, 1997
Extracted: Dec 15-16, 1997
Analyzed: Dec 16, 1997
Reported: Dec 17, 1997

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	71
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	14
Lead	6010A	2.5	4.5
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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SI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Dec 15-16, 1997
Analyzed: Dec 16, 1997
Reported: Dec 17, 1997
Matrix: Soil

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	N.D.
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	N.D.
Lead	6010A	2.5	N.D.
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 12/16/97

Sample #: PGL00785

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	0	250	230	250	92%	100%	8.3%	96%
Barium	100	250	330	350	92%	100%	5.9%	96%
Beryllium	1.3	50	48	52	93%	101%	8.0%	97%
Cadmium	71	250	300	320	92%	100%	6.5%	96%
Chromium	210	250	450	460	96%	100%	2%	98%
Lead	300	250	540	550	96%	100%	1.8%	98%
Selenium	0	50	43	45	86%	90%	4.5%	88%
Silver	5.3	50	54	57	97%	103%	5.4%	100%

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **QA/QC CRITERIA: All QA/QC was within acceptance limits.**

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MS/MSD DATA REPORT

EPA Method 8021

Matrix: Water

Date: 12/12/97

Sample #: PGL00677

Batch #: GL12111W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
Benzene	0.11	5.0	4.8	4.6	93	91	2.8	92	< 30	39 - 150
Chloroform	0.33	5.0	5.7	5.6	107	106	1.4	106	< 30	49 - 133
1,1,1-Trichloroethane	0.031	5.0	5.2	5.2	104	102	1.7	103	< 30	47 - 132
1,2-Dichloroethane	0	5.0	5.4	5.4	108	107	0.76	108	< 30	51 - 147
1,1-Dichloroethene	0	5.0	4.7	4.9	94	98	4.2	96	< 30	28 - 167
Tetrachloroethene	0.067	5.0	5.6	5.4	111	107	3.3	109	< 30	26 - 162
Toluene	0.29	5.0	4.6	4.9	86	92	6.5	89	< 30	46 - 148
Trichloroethene	0.63	5.0	5.4	5.2	95	92	3.3	93	< 30	35 - 146

Definition of Terms

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration added to sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR. . . . . Mean Percent Recovery
Acceptance Limits . . . . . Determined by EPA Method 8021

N386-121

HSI GEOTRANS

4665 SOUTH ASH AVENUE
SUITE G-1
TEMPE, ARIZONA 85282

▪ VOICE: 602-839-2800 ▪ FAX: 602-839-2828 ▪ E-MAIL: dbroermann@hsigeotrans.com

The information contained in this fax is confidential and is intended for the individual named below. If you have received this fax by mistake, please contact us immediately. Our numbers are listed above.

FACSIMILE COVER PAGE

To: Ms. Nelda (A-FHE)
Fax: 257-9773
Pages (including cover): 4

From: David Broermann
Date: December 19, 1997

Message: Nelda,

Analytical results for cutting from well MW-13m indicate soil is non hazardous. We can dispose of soil without restrictions. Randy, the driller, has decanted water off of the end dump. Based on results you can pick up the trailer, drillers are moving off site today.

Thank you again for your help.

David

Del Mar Analytical

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SI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121
Sample Descript: Soil, MW13MSC
Lab Number: PGL01014

Sampled: Dec 15, 1997
Received: Dec 16, 1997
Extracted: Dec 17-18, 1997
Analyzed: Dec 17-19, 1997
Reported: Dec 19, 1997

TOTAL METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	91
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	13
Lead	6010A	2.5	N.D.
Mercury*	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analysis completed at Del Mar Analytical-COLTON (AZ0062).

Analytes reported as N.D. were not present at or above the reporting limit.

*DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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Facsimile Cover Sheet

To: David Bauermann
Company: HSI GeoTrans
Fax:

From: Jeff Matsumoto
Company: Del Mar Analytical
Phone: (602) 968-8272
Fax: (602) 968-1338

Date: 12/19/97
Pages including this cover page: 4

Comments:

PGL 01014-HSI

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121
Sample Descript: Soil, MW13MSC
Lab Number: PGL01014

Sampled: Dec 15, 1997
Received: Dec 16, 1997
Extracted: Dec 17-18, 1997
Analyzed: Dec 17-19, 1997
Reported: Dec 19, 1997

TOTAL METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	91
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	13
Lead	6010A	2.5	N.D.
Mercury*	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analysis completed at Del Mar Analytical-COLTON (AZ0062).

Analytes reported as N.D. were not present at or above the reporting limit.

*DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGL01770

Sampled: Dec 31, 1997
Received: Dec 31, 1997
Extracted: Jan 6-9, 1998
Analyzed: 12/31/97-1/14/98
Reported: Jan 8-14, 1998

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	ANALYSES
PGL01770	P2DM	Water	601, 602, 200.7, 245.1, 218.4, SM4500-CN,C-E & SM4500-CN-G

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

SI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Sample Descript: Water, P2DM
Lab Number: PGL01770

Sampled: Dec 31, 1997
Received: Dec 31, 1997
Extracted: Jan 7-9, 1998
Analyzed: 12/31/97-1/14/98
Reported: Jan 9-14, 1998

TOTAL RECOVERABLE METALS

Analyte	EPA Method	Reporting Limit mg/L (ppm)	Sample Result mg/L (ppm)
Arsenic	200.7	0.010	0.018
Barium	200.7	0.050	0.37
Boron	200.7	0.50	N.D.
Cadmium	200.7	0.0050	N.D.
Chromium (VI)	218.4	0.075*	N.D.
Copper	200.7	0.020	0.10
Lead	200.7	0.050	N.D.
Manganese	200.7	0.050	1.2
Mercury	245.1	0.00020	0.00033
Selenium	200.7	0.020	N.D.
Silver	200.7	0.050	N.D.
Zinc	200.7	0.050	0.43

*Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 3.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Jan 6, 1998
Analyzed: Jan 6, 1998
Reported: Jan 8, 1998
Matrix: Water

PURGEABLE HALOCARBONS AND AROMATICS (EPA 601/602)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Benzene	0.50	N.D.
Ethylbenzene	0.50	N.D.
Toluene	0.50	N.D.
Total Xylenes	1.5	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accpet. Limits):	
1-Chloro-3-fluorobenzene(80-120)..	99%
aaa-Trifluorotoluene(80-120).....	92%

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MS/MSD DATA REPORT

EPA Method 601/602

Matrix: Water

Date: 01/06/98

Sample #: PGL01729

Batch #: HA06121W

Analyte	R1 ppb	Sp ppb	MS ppb	MSD ppb	PR1 %	PR2 %	RPD %	Mean PR %	Acceptance Limits RPD	Acceptance Limits Mean PR
Benzene	0.12	5.0	4.8	4.1	94	80	16	87	<30	39 - 150
Chloroform	0	5.0	5.7	4.9	115	98	16	106	<30	49 - 133
1,1-Dichloroethane	0	5.0	5.2	4.6	104	92	13	98	<30	47 - 132
1,2-Dichloroethane	0	5.0	5.2	4.5	105	91	14	98	<30	51 - 147
1,1-Dichloroethene	0	5.0	4.8	4.1	96	82	16	89	<30	28 - 167
Tetrachloroethene	0.019	5.0	5.7	4.9	114	99	14	106	<30	26 - 162
Toluene	0.33	5.0	5.1	4.4	95	81	15	88	<30	46 - 148
Trichloroethene	0	5.0	5.5	4.8	111	97	13	104	<30	35 - 146

Definition of Terms

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration added to sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR. . . . . Mean Percent Recovery
Acceptance Limits . . . . . Determined by EPA Method 601/602

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 1/8/98

Sample #: PGL01682

Analyte	R1	SP	MS	MSD	PR2	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Aluminum	0.11	1.0	1.2	1.2	109%	109%	0%	109%
Antimony	0	1.0	1.0	1.1	100%	110%	10%	105%
Arsenic	0	1.0	1.0	1.1	100%	110%	10%	105%
Barium	0.0042	1.0	0.97	1.0	97%	100%	3.0%	98%
Beryllium	0	1.0	1.0	1.0	100%	100%	0%	100%
Boron	0.099	1.0	1.2	1.2	110%	110%	0%	110%
Cadmium	0.013	1.0	1.0	1.1	99%	109%	10%	104%
Calcium	0.30	10	10.5	11	102%	107%	4.7%	105%
Chromium	1.1	1.0	2.2	2.3	110%	120%	4.4%	115%
Cobalt	0.011	1.0	0.96	1.00	95%	99%	4.1%	97%
Copper	25	1.0	26	26	100%	100%	0%	100%
Iron	5.9	10	16	17	101%	111%	6.1%	106%
Lead	0.014	1.0	0.95	1.0	94%	99%	5.1%	96%
Magnesium	0.16	10	10	10	98%	98%	0%	98%
Manganese	0.32	1.0	1.3	1.4	98%	108%	7.4%	103%
Molybdenum	1.0	1.0	2.0	2.1	100%	110%	4.9%	105%
Nickel	0.91	1.0	1.9	1.9	99%	99%	0%	99%
Phosphorus	0.13	5.0	5.2	5.6	101%	109%	7.4%	105%
Selenium	0	1.0	1.0	1.1	100%	110%	9.5%	105%
Silver	0.071	0.050	0.12	0.11	98%	78%	8.7%	88%
Thallium	0	1.0	0.89	0.94	89%	94%	5.5%	92%
Vanadium	0.0066	1.0	1.0	1.0	99%	99%	0%	99%
Zinc	0.11	1.0	1.2	1.3	109%	119%	8.0%	114%

R1 . . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

QA/QC CRITERIA: **All QA/QC was within acceptance limits.**

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Water

Date: 1/14/98

Sample #: PGL01675

Analyte	R1	SP	MS	MSD	PR2	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Copper	1.2	1.0	2.1	2.2	90%	100%	4.7%	95%

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

QA/QC CRITERIA: **All QA/QC is within acceptance limits.**

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGL01627

Sampled: Dec 29, 1997
Received: Dec 30, 1997
Extracted: Dec 29, 1997
Analyzed: Jan 8, 1998
Reported: Jan 9, 1998

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGL01627	PH-101-2.5	Extract	8021A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: Concentration of 47 µg/Kg of Trichloroethene present in sample. No other significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Jan 8, 1998
Analyzed: Jan 8, 1998
Reported: Jan 9, 1998
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8021A)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromobenzene	50	N.D.	Isopropylbenzene	50	N.D.
Bromochloromethane	50	N.D.	p-Isopropyltoluene	50	N.D.
Bromodichloromethane	50	N.D.	Methylene chloride	100	N.D.
Bromoform	50	N.D.	Naphthalene	50	N.D.
Bromomethane	100	N.D.	n-Propylbenzene	50	N.D.
n-Butylbenzene	50	N.D.	Styrene	50	N.D.
sec-Butylbenzene	50	N.D.	1,1,1,2-Tetrachloroethane	50	N.D.
tert-Butylbenzene	50	N.D.	1,1,2,2-Tetrachloroethane	50	N.D.
Carbon tetrachloride	50	N.D.	Tetrachloroethene	50	N.D.
Chlorobenzene	100	N.D.	1,2,3-Trichlorobenzene	50	N.D.
Chloroethane	250	N.D.	1,2,4-Trichlorobenzene	50	N.D.
Chloroform	50	N.D.	1,1,1-Trichloroethane	50	N.D.
Chloromethane	100	N.D.	1,1,2-Trichloroethane	50	N.D.
Chlorotoluene	50	N.D.	Trichloroethene	50	N.D.
Chlorotoluene	50	N.D.	Trichlorofluoromethane	50	N.D.
Dibromochloromethane	50	N.D.	1,2,3-Trichloropropane	50	N.D.
1,2-Dibromo-3-chloropropane	50	N.D.	1,2,4-Trimethylbenzene	50	N.D.
1,2-Dibromoethane	50	N.D.	1,3,5-Trimethylbenzene	50	N.D.
Dibromomethane	50	N.D.	Vinyl chloride	50	N.D.
1,2-Dichlorobenzene	100	N.D.			
1,3-Dichlorobenzene	100	N.D.			
1,4-Dichlorobenzene	100	N.D.			
Dichlorodifluoromethane	50	N.D.			
1,1-Dichloroethane	50	N.D.			
1,2-Dichloroethane	50	N.D.			
1,1-Dichloroethene	50	N.D.			
cis-1,2-Dichloroethene	50	N.D.			
trans-1,2-Dichloroethene	50	N.D.			
1,2-Dichloropropane	50	N.D.			
1,3-Dichloropropane	50	N.D.			
2,2-Dichloropropane	50	N.D.			
1,1-Dichloropropene	50	N.D.			
cis-1,3-Dichloropropene	50	N.D.			
trans-1,3-Dichloropropene	50	N.D.			
Hexachlorobutadiene	50	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1-Chloro-3-fluorobenzene	87%
a,a,a-Trifluorotoluene	98%

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2465 W 12th St, Suite 1, Tempe, AZ 85281 (602) 968 8272 FAX (602) 968 1538

CHAIN OF CUSTODY FORM

Client Name/Address: HSI GEOTRANS 46655, ASH

Project/PO Number: N386-121

Project Manager/Phone Number: Attn: David Bowman 841-1800

Sampler: David Bowman

Analysis Required: 8021 / 1,5,8,10 / 8260

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8021 / 1,5,8,10	8260								Special Instructions
PH-101-2.5	Soil	GLASS	2	12/29/97 1700	ICE	X									[illegible]
PH-101-H2O	H2O	Glass	2	12/29/97 1050	ICE		X								Run after Bromide results if soil sample

Relinquished By:	Date /Time:	Received by:	Date /Time:
[illegible]	12/30/97 840		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time:

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: Sample(s) will be disposed of after 30 days.

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PHA00292

Sampled: Dec 29, 1997
Relogged: Jan 9, 1998
Extracted: Jan 7, 1998
Analyzed: Jan 7, 1998
Reported: Jan 12, 1998

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PHA00292	PH-101-H2O	Water	502.2

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Jan 7, 1998
Analyzed: Jan 7, 1998
Reported: Jan 12, 1998
Matrix: Water

VOLATILE ORGANIC COMPOUNDS (EPA 502.2)

Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
Benzene	0.50	N.D.	Ethylbenzene	0.50	N.D.
Bromobenzene	0.50	N.D.	Hexachlorobutadiene	0.50	N.D.
Bromochloromethane	0.50	N.D.	Isopropylbenzene	0.50	N.D.
Bromodichloromethane	0.50	N.D.	p-Isopropyltoluene	0.50	N.D.
Bromoform	0.50	N.D.	Methylene chloride	0.50	N.D.
Bromomethane	0.50	N.D.	Naphthalene	0.50	N.D.
n-Butylbenzene	0.50	N.D.	n-Propylbenzene	0.50	N.D.
sec-Butylbenzene	0.50	N.D.	Styrene	0.50	N.D.
tert-Butylbenzene	0.50	N.D.	1,1,1,2-Tetrachloroethane	0.50	N.D.
Carbon tetrachloride	0.50	N.D.	1,1,2,2-Tetrachloroethane	0.50	N.D.
Chlorobenzene	0.50	N.D.	Tetrachloroethene	0.50	N.D.
Chloroethane	0.50	N.D.	Toluene	0.50	N.D.
Chloroform	0.50	N.D.	1,2,3-Trichlorobenzene	0.50	N.D.
Chloromethane	0.50	N.D.	1,2,4-Trichlorobenzene	0.50	N.D.
2-Chlorotoluene	0.50	N.D.	1,1,1-Trichloroethane	0.50	N.D.
4-Chlorotoluene	0.50	N.D.	1,1,2-Trichloroethane	0.50	N.D.
Dibromochloromethane	0.50	N.D.	Trichloroethene	0.50	N.D.
1,2-Dibromo-3-chloropropane DBCP	0.50	N.D.	Trichlorofluoromethane	0.50	N.D.
1,2-Dibromoethane EDB	0.50	N.D.	1,2,3-Trichloropropane	0.50	N.D.
Dibromomethane	0.50	N.D.	1,2,4-Trimethylbenzene	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.	1,3,5-Trimethylbenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.	Vinyl chloride	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.	o-Xylene	0.50	N.D.
Dichlorodifluoromethane	0.50	N.D.	m,p-Xylenes	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.			
1,2-Dichloroethane	0.50	N.D.			
1,1-Dichloroethene	0.50	N.D.			
cis-1,2-Dichloroethene	0.50	N.D.			
trans-1,2-Dichloroethene	0.50	N.D.			
1,2-Dichloropropane	0.50	N.D.			
1,3-Dichloropropane	0.50	N.D.			
2,2-Dichloropropane	0.50	N.D.			
1,1-Dichloropropene	0.50	N.D.			
cis-1,3-Dichloropropene	0.50	N.D.			
trans-1,3-Dichloropropene	0.50	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorobenzene	96%
aaa-Trifluorotoluene	99%

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CHAIN OF CUSTODY FORM

Client Name/Address: HSI GEOTRANS 4665 S. ASH

Project/PO Number: N386-121

Project Manager/Phone Number: Attn David Brockman 839-2800

Sampler: David Brockman

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8021 (8010)	5622								Special Instructions
PH-101-2.5	Soil	Glass	2	12/29/97 1700	ICE	X									
PH-101-H20	H20	Glass	2	12/29/97 1750	ICE		X								Run after Brockman results of soil sample

Analysis Required

Relinquished By: David Brockman Date /Time: 12/30/97 840

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Relinquished By: Date /Time:

Received in Lab by: R. R. Date /Time: 12/30/97 0940

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

Sample(s) will be disposed of after 30 days.

N386-121

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ISI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGL00295

Sampled: Dec 4, 1997
Received: Dec 4, 1997
Extracted: Dec 4-5, 1997
Analyzed: Dec 5, 1997
Reported: Dec 5-8, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGL00295	MW-105SC	Soil	8021A, 6010A & 7471A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121
Sample Descript: Soil, MW-105SC
Lab Number: PGL00295

Sampled: Dec 4, 1997
Received: Dec 4, 1997
Extracted: Dec 4, 1997
Analyzed: Dec 5, 1997
Reported: Dec 5-8, 1997

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	100
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	22
Lead	6010A	2.5	3.8
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Dec 4, 1997
Analyzed: Dec 5, 1997
Reported: Dec 5-8, 1997
Matrix: Soil

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	N.D.
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	N.D.
Lead	6010A	2.5	N.D.
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Denise Van Rooy
Project Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: 7471
Matrix: Soil

DATE: 12/5/97

SAMPLE # PGL00044

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	13	16.65	31	31	108%	108%	0.0%	108%

Definition of Terms:

R1 . . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS + MSD)/2)) X 100

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QA/QC CRITERIA: All QA/QC was within acceptance limits.

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CHAIN OF CUSTODY FORM

Client Name/Address: HSI GEOKINS 4665 SHSN

Project/PO Number: N386-121

Project Manager/Phone Number: Attn: 859-2800 David Brossmann

Sampler: Brossmann

Analysis Required: 8021, 8015 MOD

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8021	8015 MOD								Special Instructions
MW-105SC	W-1	Glass	3	12/4/97 1005	ICE	X	X								

Relinquished By:	Date /Time:	Received by:	Date /Time:
[illegible]	12/4/97 1025		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by: [illegible]	Date /Time: 12/4/97 1025

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours 1 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ✓ on ice ____

Note: Sample(s) will be disposed of after 30 days.

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGK00629

Sampled: Nov 14, 1997
Received: Nov 14, 1997
Extracted: Nov 14-17, 1997
Analyzed: Nov 17, 1997
Reported: Nov 17, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGK00629	MW-106M-C	Soil	6010A, 7471A & 8021A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

Celebrating 10 years of service 1987-1997

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Sample Descript: Soil, MW-106M-C
Lab Number: PGK00629

Sampled: Nov 14, 1997
Received: Nov 14, 1997
Extracted: Nov 14-17, 1997
Analyzed: Nov 17, 1997
Reported: Nov 17, 1997

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	6.1
Barium	6010A	0.50	110
Cadmium	6010A	0.50	0.73
Chromium	6010A	2.0	16
Lead	6010A	2.5	4.1
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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SI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Nov 14-17, 1997
Analyzed: Nov 17, 1997
Reported: Nov 17, 1997
Matrix: Soil

RCRA METALS

Analyte	EPA Method	Reporting Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010A	2.5	N.D.
Barium	6010A	0.50	N.D.
Cadmium	6010A	0.50	N.D.
Chromium	6010A	2.0	N.D.
Lead	6010A	2.5	N.D.
Mercury	7471A	0.020	N.D.
Selenium	6010A	5.0	N.D.
Silver	6010A	2.5	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 11/17/97

Sample #: PGK00629

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	6.1	50	54	53	96%	94%	1.9%	95%
Barium	110	250	360	340	100%	92%	5.7%	96%
Cadmium	0.73	50	48	47	95%	93%	2.1%	94%
Chromium	16	50	70	65	108%	98%	7.4%	103%
Lead	4.1	50	52	50	96%	92%	3.9%	94%
Selenium	0	50	47	47	94%	94%	0.0%	94%
Silver	0	50	48	47	96%	94%	2.1%	95%

R1. . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical **All QA/QC was within acceptance limits.**

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121

Report Number: PGK00946

Sampled: Nov 21, 1997
Received: Nov 21, 1997
Extracted: 11/26-12/2, 1997
Analyzed: 11/26-12/2, 1997
Reported: Dec 3, 1997

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	EPA ANALYSES
PGK00946	MW-104S-C	Soil	6010A, 7471A & 8021A

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: All QA/QC met acceptance criteria.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Client Project ID: N386-121
Sample Descript: Soil, MW-104S-C
Lab Number: PGK00946

Sampled: Nov 21, 1997
Received: Nov 21, 1997
Extracted: Nov 26, 1997
Analyzed: Nov 26, 1997
Reported: Dec 3, 1997

HALOGENATED AND AROMATIC VOLATILES (EPA 8021A)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene	50	N.D.	Ethylbenzene	50	N.D.
Bromobenzene	50	N.D.	Hexachlorobutadiene	50	N.D.
Bromochloromethane	50	N.D.	Isopropylbenzene	50	N.D.
Bromodichloromethane	50	N.D.	p-Isopropyltoluene	50	N.D.
Bromoform	50	N.D.	Methylene chloride	100	N.D.
Bromomethane	100	N.D.	Naphthalene	50	N.D.
n-Butylbenzene	50	N.D.	n-Propylbenzene	50	N.D.
sec-Butylbenzene	50	N.D.	Styrene	50	N.D.
tert-Butylbenzene	50	N.D.	1,1,1,2-Tetrachloroethane	50	N.D.
Carbon tetrachloride	50	N.D.	1,1,2,2-Tetrachloroethane	50	N.D.
Chlorobenzene	100	N.D.	Tetrachloroethene	50	N.D.
Chloroethane	250	N.D.	Toluene	50	N.D.
Chloroform	50	N.D.	1,2,3-Trichlorobenzene	50	N.D.
Chloromethane	100	N.D.	1,2,4-Trichlorobenzene	50	N.D.
2-Chlorotoluene	50	N.D.	1,1,1-Trichloroethane	50	N.D.
4-Chlorotoluene	50	N.D.	1,1,2-Trichloroethane	50	N.D.
Dibromochloromethane	50	N.D.	Trichloroethene	50	N.D.
1,2-Dibromo-3-chloropropane	50	N.D.	Trichlorofluoromethane	50	N.D.
1,2-Dibromoethane	50	N.D.	1,2,3-Trichloropropane	50	N.D.
Dibromomethane	50	N.D.	1,2,4-Trimethylbenzene	50	N.D.
1,2-Dichlorobenzene	100	N.D.	1,3,5-Trimethylbenzene	50	N.D.
1,3-Dichlorobenzene	100	N.D.	Vinyl chloride	50	N.D.
1,4-Dichlorobenzene	100	N.D.	o-Xylene	50	N.D.
Dichlorodifluoromethane	50	N.D.	m,p-Xylenes	100	N.D.
1,1-Dichloroethane	50	N.D.			
1,2-Dichloroethane	50	N.D.			
1,1-Dichloroethene	50	N.D.			
cis-1,2-Dichloroethene	50	N.D.			
trans-1,2-Dichloroethene	50	N.D.			
1,2-Dichloropropane	50	N.D.			
1,3-Dichloropropane	50	N.D.			
2,2-Dichloropropane	50	N.D.			
1,1-Dichloropropene	50	N.D.			
cis-1,3-Dichloropropene	50	N.D.			
trans-1,3-Dichloropropene	50	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1-Chloro-3-fluorobenzene	116%
a,a,a-Trifluorotoluene	100%

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HSI Geo Trans, Inc.
4665 South Ash Ave., Ste. G-1
Tempe, AZ 85282
Attention: David Broermann

Method Blank

Extracted: Nov 26, 1997
Analyzed: Nov 26, 1997
Reported: Dec 3, 1997
Matrix: Soil

HALOGENATED AND AROMATIC VOLATILES (EPA 8021A)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene	50	N.D.	Ethylbenzene	50	N.D.
Bromobenzene	50	N.D.	Hexachlorobutadiene	50	N.D.
Bromochloromethane	50	N.D.	Isopropylbenzene	50	N.D.
Bromodichloromethane	50	N.D.	p-Isopropyltoluene	50	N.D.
Bromoform	50	N.D.	Methylene chloride	100	N.D.
Bromomethane	100	N.D.	Naphthalene	50	N.D.
n-Butylbenzene	50	N.D.	n-Propylbenzene	50	N.D.
sec-Butylbenzene	50	N.D.	Styrene	50	N.D.
tert-Butylbenzene	50	N.D.	1,1,1,2-Tetrachloroethane	50	N.D.
Carbon tetrachloride	50	N.D.	1,1,2,2-Tetrachloroethane	50	N.D.
Chlorobenzene	100	N.D.	Tetrachloroethene	50	N.D.
Chloroethane	250	N.D.	Toluene	50	N.D.
Chloroform	50	N.D.	1,2,3-Trichlorobenzene	50	N.D.
Chloromethane	100	N.D.	1,2,4-Trichlorobenzene	50	N.D.
2-Chlorotoluene	50	N.D.	1,1,1-Trichloroethane	50	N.D.
4-Chlorotoluene	50	N.D.	1,1,2-Trichloroethane	50	N.D.
Dibromochloromethane	50	N.D.	Trichloroethene	50	N.D.
1,2-Dibromo-3-chloropropane	50	N.D.	Trichlorofluoromethane	50	N.D.
1,2-Dibromoethane	50	N.D.	1,2,3-Trichloropropane	50	N.D.
Dibromomethane	50	N.D.	1,2,4-Trimethylbenzene	50	N.D.
1,2-Dichlorobenzene	100	N.D.	1,3,5-Trimethylbenzene	50	N.D.
1,3-Dichlorobenzene	100	N.D.	Vinyl chloride	50	N.D.
1,4-Dichlorobenzene	100	N.D.	o-Xylene	50	N.D.
Dichlorodifluoromethane	50	N.D.	m,p-Xylenes	100	N.D.
1,1-Dichloroethane	50	N.D.			
1,2-Dichloroethane	50	N.D.			
1,1-Dichloroethene	50	N.D.			
cis-1,2-Dichloroethene	50	N.D.			
trans-1,2-Dichloroethene	50	N.D.			
1,2-Dichloropropane	50	N.D.			
1,3-Dichloropropane	50	N.D.			
2,2-Dichloropropane	50	N.D.			
1,1-Dichloropropene	50	N.D.			
cis-1,3-Dichloropropene	50	N.D.			
trans-1,3-Dichloropropene	50	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-chloro-3-fluorotoluene	95%
aaa-Trifluorotoluene	103%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

MS/MSD DATA REPORT

EPA METHOD: 7471
Matrix: Soil

DATE: 11/26/97

SAMPLE # PGK00950

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	10.0	16.65	24	25	84%	90%	4.1%	87%

Definition of Terms:

R1 . . . . . Result of Sample Analysis

Sp. . . . . Spike Concentration Added to Sample

MS. . . . . Matrix Spike Result

MSD. . . . . Matrix Spike Duplicate Result

PR1. . . . . Percent Recovery of MS; (MS-R1) / SP X 100

PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

QA/QC CRITERIA: QA/QC was outside of acceptance limits, see LFB for batch validation.

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-122
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-104
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-340

MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 12/2/97

Sample #: GL00075

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony*	114	2000	846	1007	37%	45%	17%	41%
Arsenic*	0	2000	0	0	0%	0%	0.0%	0%
Barium*	3780	2000	5103	5243	66%	73%	2.7%	70%
Beryllium	39	2000	2035	2067	100%	101%	1.6%	101%
Cadmium	107	2000	1802	1845	85%	87%	2.4%	86%
Chromium*	2078	2000	3448	3468	69%	70%	0.6%	69%
Cobalt	558	2000	2267	2364	85%	90%	4.2%	88%
Copper	902	2000	2602	2615	85%	86%	0.5%	85%
Lead	261	2000	1956	1987	85%	86%	1.6%	86%
Molybdenum	0	2000	1788	1726	89%	86%	3.5%	88%
Nickel*	2409	2000	3835	4064	71%	83%	5.8%	77%
Selenium*	165	2000	1676	1599	76%	72%	4.7%	74%
Thallium*	210	2000	863	817	33%	30%	5.5%	32%
Vanadium*	3437	2000	5196	4872	88%	72%	6.4%	80%
Zinc*	2855	2000	4490	4277	82%	71%	4.9%	76%

R1 . . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical QA/QC was not within acceptance limits, see LFB for batch validation.

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-122
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-104
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-340

LABORATORY FORTIFIED BLANK

EPA METHOD: 6010

DATE: 12/2/97

Analyte	St ppb	R1 ppb	PR %
Antimony	1000	969	97%
Arsenic	1000	960	96%
Barium	1000	931	93%
Chromium	1000	903	90%
Nickel	1000	1054	105%
Selenium	1000	908	91%
Thallium	1000	1101	110%
Vanadium	1000	914	91%
	1000	1024	102%

Definition of Terms:

St. . . . . Standard Concentration

R1. . . . . Standard Result

PR. . . . . Percent Recovery of R1; (R1/St) X 100

Del Mar Analytical

000100015 105 #117 & corres

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (UTS)

Generator Name: UNITED INDUSTRIAL CORPORATION Manifest Doc. No.: 4 4 4 5 9

CWM Profile Number: C B 3 4 3 6 State Manifest No.: IL 7244459

Is this waste a non-wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater ☒ Wastewater ☐

If this waste is subject to any California List restrictions enter the letter from below (either A, B1, or B2) next to each restriction that is applicable:
_X_ HOCs, _____ PCBs, _____ Metals, _____ Acid, _____ Cyanides.

3. Identify ALL US EPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent and California List treatment standards are listed on the back of this form. If F039, multi-source leachate applies, those constituents must be listed and attached by the generator. If D001, D002, or D012-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION IF NOT APPLICABLE SIMPLY CHECK NONE		6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D040	TRICHLOROETHENE		A
2				
3				
4				
5				
6				
7				
8				
9				
10				

To identify F039 or D001, D002, D012-D043, underlying hazardous constituent(s), use the "F039 Underlying Hazardous Constituent Form" provided (CWM-2004) and check here: ☒
If HOCs are present in the waste upon its initial generation check here: ☐
If additional US EPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-B) and check here: ☐

HOW MUST THE WASTE BE MANAGED? In column 7 above, enter the letter (A, B1, B2, B3, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, or D, you are making the appropriate certification as provided below.

(A) RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268.32, or RCRA Section 3004(d).
☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

B. 1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268, Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B. 2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B. 3 GOOD FAITH ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264, Subpart O, or 40 CFR Part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance or a case-by-case extension. Enter the effective date of prohibition in column 7 above.
☐ For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certification, including the possibility of a fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: [illegible] Title: Mgr. [illegible]

80870831 3 - 117

Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
02/470-0225
Fax: 602/470-0692

A Waste Management Company

November 8, 1996

MATTHEW CONWAY
HYDROSEARCH
4636 EAST UNIVERSITY DRIVE
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441225 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 11-07-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 11-07-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code: WMNA 441225

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: United Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3536 West Osborn Road
4. Generator City, State/Province: Phoenix, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: Matthew Conway
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: Concrete Septic Tank
2. Process Generating Waste: UBARF Remediation
3. Annual Amount/Units: OTO 5 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Material is remains of concrete septic tanks. Gravel concrete was fractured and excavated from the site.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Shipped in lined roll-off
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ APPROVED ☐ DISAPPROVED ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision (Check One)** ☐ APPROVED ☐ DISAPPROVED

   If Disapproved, Explain: _____

   If Approved, List Precautions, Conditions, or Limitations on Approval: _____

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

808708313/117

Waste Management of Arizona
2902 South 44th Street
Phoenix, Arizona 85040
602/470-0225
F 602/470-0692

A Waste Management Company

December 17, 1996

MATTHEW CONWAY
HYDROSEARCH, INC.
4636 EAST UNIVERSITY DRIVE SUITE 145
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 456278 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 12-17-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 12-17-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

HOST TO SUPER BOWL
1996
ARIZONA

Printed on recycled pap

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code
WMI 456278

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: UNITED Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3600 West Osborn ROAD
4. Generator City, State/Province: PHOENIX, ARIZONA
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: MATTHEW CONWAY
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: Concrete
2. Process Generating Waste: WQARF REMEDIATION
3. Annual Amount/Units: 010/10 TONS
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Material is remains of concrete septic tank. Gravel concrete was fractured and excavated from site.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: SHIPPED IN LINED ROLL-OFF.
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ **APPROVED** ☐ **DISAPPROVED** ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached
   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision (Check One)** ☐ **APPROVED** ☐ **DISAPPROVED**

If Disapproved, Explain: _____

If Approved, List Precautions, Conditions, or Limitations on Approval: _____

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

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808708313-117

Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
602/470-0225
Fax: 602/470-0692

A Waste Management Company

November 8, 1996

MATTHEW CONWAY
HYDROSEARCH
4636 EAST UNIVERSITY DRIVE
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441598 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 11-07-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 11-07-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code: WMNA 441598

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: United Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3640 West Osborn Road
4. Generator City, State/Province: Phoenix, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: Matthew E. Conway
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: Concrete Septic Tank
2. Process Generating Waste: WQARF Remediation
3. Annual Amount/Units: OTO 7 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Material is the remains of gravel concrete septic tank. Concrete was fractured and excavated from the site.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Material will be shipped in a lined roll-off.
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ **APPROVED** ☐ **DISAPPROVED** ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes. Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

   Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision** (Check One) ☐ **APPROVED** ☐ **DISAPPROVED**

   If Disapproved, Explain: _____

   If Approved, List Precautions, Conditions, or Limitations on Approval: _____

   General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

808708313-117

Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
02/470-0225
ax: 602/470-0692

A Waste Management Company

November 8, 1996

MATTHEW CONWAY
HYDROSEARCH
4636 EAST UNIVERSITY DRIVE
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441599 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 11-07-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 11-07-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code: WMNA 441599

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: United Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3600 West Osborn Road
4. Generator City, State/Province: Phoenix, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: Mathew E. Conglam
9. Phone: (602) 894-2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: Concrete Septic Tank
2. Process Generating Waste: UIC ARE Remediation
3. Annual Amount/Units: OTO 7 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Material is the remains of gravel concrete septic tank. Concrete was fractured and excavated from site
6. Incidental Waste Types and Amounts: _____

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Material will be shipped in a lined roll-off.
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ APPROVED ☐ DISAPPROVED ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

If waived, explain why: _____

4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision** (Check One) ☐ APPROVED ☐ DISAPPROVED

If Disapproved, Explain: _____

If Approved, List Precautions, Conditions, or Limitations on Approval: _____

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

808708313/117

Waste Mana .ent Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
02/470-0225
ax: 602/470-0692

A Waste Management Company

October 23, 1996

MATTHEW CONWAY
HYDROSEARCH, INC.
4636 EAST UNIVERSITY DRIVE SUITE 145
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441259 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 10-22-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 10-22-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code [ ] WMNA 441259

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: UNITED Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3640 West Osborn Road
4. Generator City, State/Province: Phoenix, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: MATTHEW CONWAY
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: SEPTIC TANK FILL MATERIAL
2. Process Generating Waste: WQARF REMEDIATION
3. Annual Amount/Units: OTO 14 tons
4. Type A [X] Type B [ ]
5. Special Handling Instructions/Supplemental Information: Material will be removed using an vacuum truck. Some water may be added; however, the material will remain a solid.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: [ ] Bulk Liquid [ ] Bulk Sludge [X] Bulk Solid [X] Drum/Box [ ] Other
2. Supplemental Shipping Information: Material will be shipped in dump trucks.

Is this a DOT hazardous material? [X] No [ ] Yes (If yes, complete 4, 5 & 6)

4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) [ ] APPROVED [ ] DISAPPROVED [ ] Check if additional information is attached

If Disapproved, Explain:

If Approved, Continue.

1. Management Method(s)
2. Precautions, Conditions, or Limitations on Approval:
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: [ ] Waived [ ] Attached

   If waived, explain why:
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility:
2. Proposed Intermediate Transfer Facility: _____ 3. Transporter:
4. **Management Facility Gen. Mgr. Decision** (Check One) [ ] APPROVED [ ] DISAPPROVED

If Disapproved, Explain:

If Approved, List Precautions, Conditions, or Limitations on Approval:

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

Printed on Recycled Paper

Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
602/470-0225
Fax: 602/470-0692

808708313/117

A Waste Management Company

October 23, 1996

MATTHEW CONWAY
HYDROSEARCH, INC.
4636 EAST UNIVERSITY DRIVE SUITE 145
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441260 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 10-23-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 10-23-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code
WMNA 441260

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: UNITED INDUSTRIAL CORPORATION
2. SIC Code: _____
3. Facility Address (site of waste generation): 3600 WEST OSBORN ROAD
4. Generator City, State/Province: PHOENIX, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: Matthew Conway
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: SEPTIC TANK FILL MATERIAL
2. Process Generating Waste: WQARF REMEDIATION
3. Annual Amount/Units: OTO 12 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Fill Material will be removed using a vacuum truck. Some water may be added; however, material will remain a solid.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Material will be shipped in Dump Trucks

Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)

4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ APPROVED ☐ DISAPPROVED ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision** (Check One) ☐ APPROVED ☐ DISAPPROVED

If Disapproved, Explain: _____

If Approved, List Precautions, Conditions, or Limitations on Approval: _____

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

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808708313/117

Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
602/470-0225
Fax: 602/470-0692

A Waste Management Company

October 23, 1996

MATTHEW CONWAY
HYDROSEARCH, INC.
4636 EAST UNIVERSITY DRIVE SUITE 145
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441261 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 10-23-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 10-23-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

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GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code: WMNA 441261

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: United Industrial Corporation
2. SIC Code: _____
3. Facility Address (site of waste generation): 3536 WEST OSBORN ROAD
4. Generator City, State/Province: Phoenix, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: N/A
8. Technical Contact: MATTHEW CONWAY
9. Phone: (602) 894 - 2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: SEPTIC TANK FILL MATERIAL
2. Process Generating Waste: W&ARE Remediation
3. Annual Amount/Units: OTO 53 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Fill Material will be removed using a VACUUM TRUCK. SOME WATER MAY BE ADDED; However, the material will remain a SOLID.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Material will be shipped in dump trucks.
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ APPROVED ☐ DISAPPROVED ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision (Check One)** ☐ APPROVED ☐ DISAPPROVED

If Disapproved, Explain: _____

If Approved, List Precautions, Conditions, or Limitations on Approval: _____

General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

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Waste Management Inc. - West
Industrial Services Division
2902 South 44th St.
Phoenix, Arizona 85040
602/470-0225
Fax: 602/470-0692

808708313/117

A Waste Management Company

October 23, 1996

MATTHEW CONWAY
HYDROSEARCH, INC.
4636 EAST UNIVERSITY DRIVE SUITE 145
PHOENIX, AZ 85034

Dear MR. CONWAY,

Enclosed is your fully executed copy of the "Generator's Waste Profile Sheet" for:

DESTINATION FACILITY: BUTTERFIELD FACILITY

WMNA/PROFILE #: 441262 UNITED INDUSTRIAL CORPORATION

THIS PROFILE WILL EXPIRE ON 10-23-97

SERVICE AGREEMENT PRICING IS SUBJECT TO CHANGE ON: 10-23-97

Please note conditions / limitations noted in section B3 for this profile.

Please contact the Butterfield Station Landfill at 602-256-0630 to schedule your delivery 24 hours in advance. Each load must be accompanied by the appropriate shipping document referencing the above profile number.

Waste Management would like to thank you for your business and we look forward to working with you in the future.

Sincerely,

INSIDE SALES
CUSTOMER SERVICE DEPARTMENT
INDUSTRIAL WASTE DIVISION

Printed on recycled paper

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code
WMNA 441262

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

(Shaded Areas For Contractor Use Only)

Decision Expiration Date: / /

Contractor Sales Rep#: _____

Service Agr. Renewal Date: / /

A. WASTE GENERATOR INFORMATION

1. Generator Name: UNITED INDUSTRIAL CORPORATION
2. SIC Code: _____
3. Facility Address (site of waste generation): 3536 WEST OSBORN ROAD
4. Generator City, State/Province: PHOENIX, AZ
5. Zip/Postal Code: 85019
6. Generator USEPA/Federal ID #: N/A
7. State/Province ID #: _____
8. Technical Contact: MATTHEW CONWAY
9. Phone: (602) 894-2800

B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: SEPTIC TANK FILL MATERIAL
2. Process Generating Waste: WQARF Remediation
3. Annual Amount/Units: OTO 10 tons
4. Type A ☒ Type B ☐
5. Special Handling Instructions/Supplemental Information: Material will be removed using a vacuum truck. Some water may be added; however, the material will remain a solid.
6. Incidental Waste Types and Amounts: N/A

C. TRANSPORTATION INFORMATION

1. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Sludge ☒ Bulk Solid ☐ Drum/Box ☐ Other _____
2. Supplemental Shipping Information: Material will be shipped in dump trucks.
3. Is this a DOT hazardous material? ☒ No ☐ Yes (If yes, complete 4, 5 & 6)
4. Hazard Class/ID #: N/A
5. Reportable Quantity/Units (lb/kg): N/A
6. Shipping Name: N/A

D. TECHNICAL MANAGER DECISION (Check One) ☐ APPROVED ☐ DISAPPROVED ☐ Check if additional information is attached

If Disapproved, Explain: _____

If Approved, Continue.

1. Management Method(s) _____
2. Precautions, Conditions, or Limitations on Approval: _____
3. For Type A Wastes, Laboratory Analysis of a Representative Sample Was: ☐ Waived ☐ Attached

   If waived, explain why: _____
4. List Non-WMI Facility that is Approved to Manage this Waste: _____ Date: _____

   Tech. Mgr. Signature: _____ Name (Print): _____ Date: _____

E. MANAGEMENT FACILITY INFORMATION / DECISION

1. Proposed Management Facility: _____
2. Proposed Intermediate Transfer Facility: _____
3. Transporter: _____
4. **Management Facility Gen. Mgr. Decision** (Check One) ☐ APPROVED ☐ DISAPPROVED

   If Disapproved, Explain: _____

   If Approved, List Precautions, Conditions, or Limitations on Approval: _____

   General Mgr. Signature: _____ Name (Print): _____ Date: _____

Turn Page and Complete Side 2 (If Type B Special Waste, only complete Part J of Side 2)

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808708313 117

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-122
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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

Hydro-Search, Inc.	Client Project ID: 808708313 117	Sampled:	Dec 24, 1996
636 E. University Drive, Ste. 145	U.I.C.	Received:	Dec 27, 1996
Phoenix, AZ 85034	Sample Descript: Soil, BH-1	Extracted:	Dec 24, 1996
Attention: David Broermann	Lab Number: 6121112	Analyzed:	Jan 2, 1997
		Reported:	Jan 6, 1997

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1-Dichloroethene	50	N.D.
-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	97%
aaa-Trifluorotoluene	98%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Hydro-Search, Inc.	Client Project ID: 808708313 117	Sampled: Dec 24, 1996
4636 E. University Drive, Ste. 145	U.I.C.	Received: Dec 27, 1996
Phoenix, AZ 85034	Sample Descript: Soil, VB Box	Extracted: Dec 24, 1996
Attention: David Broermann	Lab Number: 6121114	Analyzed: Jan 2, 1997
		Reported: Jan 6, 1997

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	94%
aaa-Trifluorotoluene	98%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-104
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

Hydro-Search, Inc.	Client Project ID: 808708313 117	Sampled:	Dec 24, 1996
636 E. University Drive, Ste. 145	U.I.C.	Received:	Dec 27, 1996
Phoenix, AZ 85034	Sample Descript: Soil, ST3-SP1	Extracted:	12/30-1/3, 1997
Attention: David Broermann	Lab Number: 6121113	Analyzed:	Jan 3-10, 1997
		Reported:	Jan 10, 1997

RCRA METALS

Analyte	EPA Method	Detection Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Arsenic	6010	2.5*	3.4
Barium	6010	0.10	85
Cadmium	6010	0.10	N.D.
Chromium	6010	2.5*	75
Lead	6010	1.0	3.6
Mercury	7471	0.0020	0.0081
Selenium	6010	1.0	N.D.
Silver	6010	2.5*	N.D.

*Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 5.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

Hydro-Search, Inc.
4636 E. University Drive, Ste. 145
Phoenix, AZ 85034
Attention: David Broermann

Method Blank

Extracted: Jan 2, 1997
Analyzed: Jan 2, 1997
Reported: Jan 6, 1997
Matrix: Soil

HALOGENATED AND AROMATIC VOLATILES (EPA 8010/8020)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl Chloride	50	N.D.
Benzene	50	N.D.
Ethylbenzene	50	N.D.
Toluene	50	N.D.
Total Xylenes	100	N.D.

* PID/ELCD were used in series for this analysis.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Jeff Matsumoto
Project Manager

Surrogate Standard Recoveries:	
1-Chloro-3-fluorobenzene	102%
aaa-Trifluorotoluene	98%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-122
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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

MS/MSD DATA REPORT

EPA Method 8010/8020

Matrix: Soil

Date: 01/02/97

Sample #: P6121112

Batch #: GA027B1S

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
Benzene	0	50	48	51	96	101	4.8	99	<23	70 - 130
Chloroform	0	50	64	64	128	127	1.1	128	<11	70 - 130
1,1-Dichloroethane	0	50	44	46	88	93	5.4	90	<16	70 - 130
1,2-Dichloroethane	0	50	45	45	89	91	1.4	90	<13	70 - 130
1,1-Dichloroethene	0	50	54	55	107	109	1.5	108	<11	70 - 130
Tetrachloroethene	0	50	57	59	115	118	2.5	116	<11	70 - 130
Toluene	0	50	52	54	104	108	4.1	106	<25	70 - 130
Trichloroethene	0	50	51	52	102	104	2.1	103	<12	70 - 130

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by in-house Control Charts

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MS/MSD DATA REPORT

METHOD Metals
Instrument: ICP
Matrix: Soil

Date: 1/10/97

Sample #: P6121112

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Arsenic	0.56	125	140	130	112%	104%	7.4%	108%
Barium	140	125	270	260	104%	96%	3.8%	100%
Cadmium	0	125	120	120	96%	96%	0.0%	96%
Chromium	76	125	200	200	99%	99%	0.0%	99%
Lead	7.3	250	260	250	101%	97%	3.9%	99%
Selenium	0	125	130	130	104%	104%	0.0%	104%

R1 . . . . . Result of Sample Analysis
Sp. . . . . Spike Concentration Added to Sample
MS. . . . . Matrix Spike Result
MSD. . . . . Matrix Spike Duplicate Result
PR1. . . . . Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2. . . . . Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD. . . . . Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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CHAIN OF CUSTODY FORM

Client Name/Address: Hydro-Search

Project/PO Number: PO 8708313 117

Project Manager/Phone Number: David Boorman 594-2800

Sampler: David Boorman

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	8010/8020	METALS RCRA 8								Special Instructions
BH-1	Soil	Gl.155	3	11/6 12/24/96		X	X								
ST3-SP1	Soil	"	3	1110-1120 12/27/96		X	X								
VB BOX	Soil	"	4	1 of 1123 12/24 96		X	X								Composite soils and extractions

Relinquished By: David Boorman Date /Time: 12/27/96 12:30

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Relinquished By: Date /Time:

Received in Lab by: [illegible] Date /Time: 12/27/96 [illegible]

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice ____

Note: Sample(s) will be disposed of after 30 days.