



# PARAGON ANALYTICS

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June 29, 2005

TP OS

Mr. Steve Pullen  
NMED DOE Oversight Bureau  
2905 Rodeo Park Dr., East Bldg. 1  
Santa Fe, NM 87505

Re: Paragon Workorder: 05-06-082  
Client Project Name: None Submitted  
Client Project Number: GMI

Dear Mr. Pullen:

One liquid sample was received from NMED Oversight Bureau on June 9, 2005. The sample was scheduled for Metals (pages 1-191) and GC/MS Semivolatiles (pages 1-188) analyses.

The results for these analyses are contained in the enclosed reports.

Thank you for your confidence in Paragon Analytics, Inc. should you have any questions, please call.

Sincerely,

*Debbie Fejo (fa)*

Paragon Analytics, Inc.  
Lance Steere  
Senior Project Manager

LRS/ja  
Enclosure: Report

***Paragon Analytics  
Data Qualifier Flags  
Chromatography and Mass Spectrometry***

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- \***: This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +**: This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

# Total ICP Metals

## Method SW6010B

### Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0506082

Client Name: NMED DOE Oversight Bureau

ClientProject ID: GMI

Field ID: UST Cell 6, White Paint  
Lab ID: 0506082-1

Sample Matrix: LIQUID  
% Moisture: N/A  
Date Collected: 07-Jun-05  
Date Extracted: 15-Jun-05  
Date Analyzed: 16-Jun-05  
Prep Method: SW3010A

Prep Batch: IP050615-2  
QC Batch ID: IP050615-2-1  
Run ID: IT050616-1A1  
Cleanup: NONE  
Basis: As Received

Sample Aliquot: 50 g  
Final Volume: 50 g  
Result Units: mg/l  
Clean DF: 1  
File Name: TS50616

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	12			
7440-36-0	ANTIMONY	1	0.02			
7440-38-2	ARSENIC	1	0.01	5.0		
7440-39-3	BARIUM	1	0.1	100.0		
7440-41-7	BERYLLIUM	1	0.005			
7440-43-9	CADMIUM	1	0.005	1.0		
7440-70-2	CALCIUM	1	6.3			
7440-47-3	CHROMIUM	1	0.01	5.0		
7440-48-4	COBALT	1	0.01			
7440-50-8	COPPER	1	0.01			
7439-89-6	IRON	1	19			
7439-92-1	LEAD	1	0.0071	5.0		
7439-95-4	MAGNESIUM	1	3.9			
7439-96-5	MANGANESE	1	0.032			
7440-02-0	NICKEL	1	0.02			
7440-09-7	POTASSIUM	1	1.6			
7782-49-2	SELENIUM	1	0.005	1.0		
7440-22-4	SILVER	1	0.01	5.0		
7440-23-5	SODIUM	1	10			
7440-28-0	THALLIUM	1	0.01			
7440-62-2	VANADIUM	1	0.011			
7440-66-6	ZINC	1	0.17			

Mg/L

Data Package ID: #0506082-1

Date Printed: Monday, June 27, 2005

Paragon Analytics  
LMS Version: 5.194A

# Total ICP Metals

## Method SW6010B

### Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0506082

Client Name: NMED DOE Oversight Bureau

ClientProject ID: GMI

Field ID:	UST Cell 6, White Paint
Lab ID:	0506082-1

Sample Matrix: LIQUID

% Moisture: N/A

Date Collected: 07-Jun-05

Date Extracted: 15-Jun-05

Date Analyzed: 16-Jun-05

Prep Method: SW3010A

Prep Batch: IP050615-2

QC Batch ID: IP050615-2-1

Run ID: IT050616-1A1

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: mg/l

Clean DF: 1

File Name: TS50616

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	12	0.2		
7440-36-0	ANTIMONY	1	0.02	0.02	U	
7440-38-2	ARSENIC	1	0.01	0.01	U	
7440-39-3	BARIUM	1	0.1	0.1	U	
7440-41-7	BERYLLIUM	1	0.005	0.005	U	
7440-43-9	CADMIUM	1	0.005	0.005	U	
7440-70-2	CALCIUM	1	6.3	1		
7440-47-3	CHROMIUM	1	0.01	0.01	U	
7440-48-4	COBALT	1	0.01	0.01	U	
7440-50-8	COPPER	1	0.01	0.01	U	
7439-89-6	IRON	1	19	0.1		
7439-92-1	LEAD	1	0.0071	0.003		
7439-95-4	MAGNESIUM	1	3.9	1		
7439-96-5	MANGANESE	1	0.032	0.01		
7440-02-0	NICKEL	1	0.02	0.02	U	
7440-09-7	POTASSIUM	1	1.6	1		
7782-49-2	SELENIUM	1	0.005	0.005	U	
7440-22-4	SILVER	1	0.01	0.01	U	
7440-23-5	SODIUM	1	10	1		
7440-28-0	THALLIUM	1	0.01	0.01	U	
7440-62-2	VANADIUM	1	0.011	0.01		
7440-66-6	ZINC	1	0.17	0.02		

Data Package ID: it0506082-1

Date Printed: Monday, June 27, 2005

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LIMS Version: 5.194A

# Total Mercury

## Method SW7470A

### Sample Results

**Lab Name:** Paragon Analytics

**Work Order Number:** 0506082

**Client Name:** NMED DOE Oversight Bureau

**ClientProject ID:** GMI

<b>Field ID:</b> UST Cell 6, White Paint
<b>Lab ID:</b> 0506082-1

**Sample Matrix:** LIQUID  
**% Moisture:** N/A  
**Date Collected:** 07-Jun-05  
**Date Extracted:** 20-Jun-05  
**Date Analyzed:** 20-Jun-05  
**Prep Method:** METHOD

**Prep Batch:** HG050620-1  
**QC Batch ID:** HG050620-1-2  
**Run ID:** HG050620-1A1  
**Cleanup:** NONE  
**Basis:** As Received

**Sample Aliquot:** 20 g  
**Final Volume:** 20 g  
**Result Units:** mg/l  
**Clean DF:** 1  
**File Name:** 05062001

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7439-97-6	MERCURY	1	0.0002	0.0002	U	

**Data Package ID:** hg0506082-1

# GC/MS Semi-volatiles

Method SW8270C

## Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0506082

Client Name: NMED DOE Oversight Bureau

ClientProject ID: GMI

Field ID: UST Cell 6, White Paint  
Lab ID: 0506082-1

Sample Matrix: LIQUID  
% Moisture: N/A  
Date Collected: 07-Jun-05  
Date Extracted: 14-Jun-05  
Date Analyzed: 21-Jun-05  
Prep Method: SW3520C

Prep Batch: EX050614-3  
QC Batch ID: EX050614-3-3  
Run ID: SV050621-2  
Cleanup: NONE  
Basis: As Received

Sample Aliquot: 100 ml  
Final Volume: 1.5 ml  
Result Units: UG/L  
Clean DF: 1  
File Name: P2658

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	150	150	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	150	150	U	
62-53-3	ANILINE	1	150	150	U	
108-95-2	PHENOL	1	91	150	J	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	150	150	U	
95-57-8	2-CHLOROPHENOL	1	150	150	U	
541-73-1	1,3-DICHLOROBENZENE	1	150	150	U	
106-46-7	1,4-DICHLOROBENZENE	1	150	150	U	
95-50-1	1,2-DICHLOROBENZENE	1	150	150	U	
100-51-6	BENZYL ALCOHOL	1	150	150	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	150	150	U	
95-48-7	2-METHYLPHENOL	1	10	150	J	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	150	150	U	
108-39-4	3+4-METHYLPHENOL	1	150	150	U	
67-72-1	HEXACHLOROETHANE	1	150	150	U	
98-95-3	NITROBENZENE	1	150	150	U	
78-59-1	ISOPHORONE	1	150	150	U	
88-75-5	2-NITROPHENOL	1	150	150	U	
105-67-9	2,4-DIMETHYLPHENOL	1	150	150	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	150	150	U	
120-83-2	2,4-DICHLOROPHENOL	1	150	150	U	
65-85-0	BENZOIC ACID	1	750	750	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	150	150	U	
91-20-3	NAPHTHALENE	1	150	150	U	
106-47-8	4-CHLOROANILINE	1	150	150	U	
87-68-3	HEXACHLOROBUTADIENE	1	150	150	U	
59-50-7	4-CHLORO-3-METHYLPHENOL	1	150	150	U	
91-57-6	2-METHYLNAPHTHALENE	1	150	150	U	

Data Package ID: SV0506082-1

# GC/MS Semi-volatiles

Method SW8270C

## Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0506082

Client Name: NMED DOE Oversight Bureau

ClientProject ID: GMI

Field ID: UST Cell 6, White Paint

Lab ID: 0506082-1

Sample Matrix: LIQUID

% Moisture: N/A

Date Collected: 07-Jun-05

Date Extracted: 14-Jun-05

Date Analyzed: 21-Jun-05

Prep Method: SW3520C

Prep Batch: EX050614-3

QCBatchID: EX050614-3-3

Run ID: SV050621-2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 100 ml

Final Volume: 1.5 ml

Result Units: UG/L

Clean DF: 1

File Name: P2658

77-47-4	HEXACHLOROCYCLOPENTADIENE	1	150	150	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	150	150	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	150	150	U	
91-58-7	2-CHLORONAPHTHALENE	1	150	150	U	
88-74-4	2-NITROANILINE	1	300	300	U	
131-11-3	DIMETHYL PHTHALATE	1	150	150	U	
606-20-2	2,6-DINITROTOLUENE	1	150	150	U	
208-96-8	ACENAPHTHYLENE	1	150	150	U	
99-09-2	3-NITROANILINE	1	300	300	U	
83-32-9	ACENAPHTHENE	1	150	150	U	
51-28-5	2,4-DINITROPHENOL	1	300	300	U	
100-02-7	4-NITROPHENOL	1	300	300	U	
132-64-9	DIBENZOFURAN	1	150	150	U	
121-14-2	2,4-DINITROTOLUENE	1	150	150	U	
84-66-2	DIETHYL PHTHALATE	1	150	150	U	
86-73-7	FLUORENE	1	150	150	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	150	150	U	
100-01-6	4-NITROANILINE	1	300	300	U	
103-33-3	AZOBENZENE	1	150	150	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	300	300	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	150	150	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	150	150	U	
118-74-1	HEXACHLOROBENZENE	1	150	150	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	150	150	U	
87-86-5	PENTACHLOROPHENOL	1	300	300	U	
85-01-8	PHENANTHRENE	1	150	150	U	
120-12-7	ANTHRACENE	1	150	150	U	
86-74-8	CARBAZOLE	1	150	150	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	150	150	U	
206-44-0	FLUORANTHENE	1	150	150	U	
129-00-0	PYRENE	1	150	150	U	

Data Package ID: SV0506082-1

Date Printed: Tuesday, June 28, 2005

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LIMS Version: 5.194A

# GC/MS Semi-volatiles

Method SW8270C

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0506082

Client Name: NMED DOE Oversight Bureau

ClientProject ID: GMI

<b>Field ID:</b> UST Cell 6, White Paint	<b>Sample Matrix:</b> LIQUID	<b>Prep Batch:</b> EX050614-3	<b>Sample Aliquot:</b> 100 ml
<b>Lab ID:</b> 0506082-1	<b>% Moisture:</b> N/A	<b>QC Batch ID:</b> EX050614-3-3	<b>Final Volume:</b> 1.5 ml
	<b>Date Collected:</b> 07-Jun-05	<b>Run ID:</b> SV050621-2	<b>Result Units:</b> UG/L
	<b>Date Extracted:</b> 14-Jun-05	<b>Cleanup:</b> NONE	<b>Clean DF:</b> 1
	<b>Date Analyzed:</b> 21-Jun-05	<b>Basis:</b> As Received	<b>File Name:</b> P2658
	<b>Prep Method:</b> SW3520C		

Field ID	Compound Name	Concentration (µg/L)	Method
85-68-7	BUTYL BENZYL PHTHALATE	150	U
56-55-3	BENZO(A)ANTHRACENE	150	U
91-94-1	3,3'-DICHLOROBENZIDINE	150	U
218-01-9	CHRYSENE	150	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	150	U
117-84-0	DI-N-OCTYL PHTHALATE	150	U
205-99-2	BENZO(B)FLUORANTHENE	150	U
207-08-9	BENZO(K)FLUORANTHENE	150	U
50-32-8	BENZO(A)PYRENE	150	U
193-39-5	INDENO(1,2,3-CD)PYRENE	150	U
53-70-3	DIBENZO(A,H)ANTHRACENE	150	U
191-24-2	BENZO(G,H,I)PERYLENE	150	U

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	518		750	69	23 - 100
321-60-8	2-FLUOROBIPHENYL	354		500	71	21 - 106
367-12-4	2-FLUOROPHENOL	407		750	54	21 - 100
4165-60-0	NITROBENZENE-D5	325		500	65	34 - 111
4165-62-2	PHENOL-D5	442		750	59	15 - 104
1718-51-0	TERPHENYL-D14	326		500	65	33 - 111

Data Package ID: SV0506082-1