Au
Energy

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RECEIVED
By Alameda County Environmental Health at 2:54 pm, Jun 23, 2014

June 6, 2014

Mr. Jerry Wickham
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Work Plan for Widening the Existing Excavation at Shell-Branded Gasoline Station to Accommodate New USTs
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Mr. Wickham:

Au Energy, LLC (Au Energy, the *responsible party*), is submitting the enclosed Work Plan and request to leave the existing residually petroleum impacted pea gravel at the site which has not been previously excavated. This Work Plan was prepared by Bureau Veritas North America, Inc. (BVNA) on behalf of AU Energy, LLC.

I declare, under penalty of perjury, that the information contained in the attached enclosed Work Plan is true and correct to the best of my knowledge. If you have any comments or questions regarding this report, please do not hesitate to contact Mark Williams or John Werfal of BVNA. Their contact information is provided in the Work Plan.

Sincerely,

Sunny Goyal
Au Energy Director

June 6, 2014

Mr. Jerry Wickham
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Project No. 33113-013181.00

Subject: Work Plan for Widening the Existing Excavation at Shell-Branded Gasoline Station to Accommodate New USTs
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Mr. Wickham:

As requested, Bureau Veritas North America, Inc. (BVNA) on behalf of Au Energy, LLC (Au Energy, the responsible party), has prepared this Work Plan detailing soil management procedures at the above-referenced Site for additional excavation of sidewall materials beyond the extent of the current excavation of the former underground storage tank (UST) pit. BVNA prepared this Work Plan based on a phone conversation with Alameda County Health Care Services Agency (ACHCSA) on June 3, 2014.

The Site gasoline station is currently being redeveloped and upgraded. The former USTs and dispensers have been removed. The new, future tank configuration is shown in the attached figure. The purpose of this Work Plan is request that the pea gravel which is currently in the UST excavation and has not been previously excavated remain in-situ, and to allow for the removal of additional petroleum impacted fill materials and debris be removed as part of the excavation widening work.

BACKGROUND

During the removal of the former USTs, materials surrounding the USTs were sampled in-situ prior to their removal. The sampled materials included soil, fill of unknown origin generally found below the depths of 4 to 8 feet below ground surface (bgs), and pea gravel (former UST backfill and support material). The samples were collected from the pit sidewalls and base by Mr. Ray James of Sparger Technology on behalf of Au Energy.

Following sampling, approximately 300 cubic yards of pea gravel were removed from the excavation and temporarily placed on and covered with plastic, adjacent and to the northeast of the excavation. On June 3, 2014, ACHCSA verbally approved temporary re-use of the stockpiled pea gravel to provide stability during installation of temporary shoring in the excavation.

Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
2430 Camino Ramon, Suite 122
San Ramon, CA 94583
Main: (925) 426.2600
Fax: (925) 426.0106
www.us.bureauveritas.com

SAMPLE ANALYSES

The collected samples were analyzed by the following U.S. EPA methods:

- Total extractable petroleum hydrocarbons (TEPH) and total petroleum hydrocarbons quantified as gasoline (TPH-g) by method 8015B
- Benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE) and other volatile organic compounds (VOCs) by method 8260B
- Polychlorinated biphenyls (PCBs) by method 8082
- Semi volatile organic compounds (SVOCs) by method 8270

The laboratory analytical results are enclosed. Summaries of detected organic chemicals of concern are provided in Tables 1 through 3, below.

TABLE 1 – GRAY SOILS

Chemical of Concern Sparger Data 20925	STKP-1 (ABCD) mg/kg	STKP-2 (ABCD) mg/kg
TPH-d	<10	2400
TPH-mo	1200	<100
Other 8260 VOCs	ND	Acetone 0.02

TABLE 2 – DEBRIS / FILL MATERIALS

Chemical of Concern Sparger Data 20927	Debris Mix #1 mg/kg	Debris Mix #1 mg/kg
TPH-g	1,900	200
TPH-mo	43,000	68,000
TPH-k	5,000	10,000
Benzene	1.5/1.7	1.1/1.2
Toluene	0.59/0.54	0.59/0.54
Ethyl benzene	7.6/7.6	6.8/7.1
Xylenes	6.3/5.5	17/16
MTBE	0.77	0.82
Other 8260 VOCs	Naphthalene (5.6) 1,2,4-Trimethylbenzene (5.7)	Naphthalene (5.9)/(8.9) 1,2,4-Trimethylbenzene (29) Phenanthrene (4.4)
Chemical of Concern Sparger Data 20926	STKP-3 (ABCD) mg/kg	STKP-4 (ABCD) mg/kg
TPH-d	270	550
Other 8260 VOCs	Acetone 0.03	Acetone 0.02

TABLE 3 – PEA GRAVEL

Chemical of Concern Sparger Data 20926	STKP-3 (ABCD) mg/kg	STKP-4 (ABCD) mg/kg
TPH-d	270	550
Other 8260 VOCs	Acetone 0.03	Acetone 0.02

SCOPE OF WORK

Installation of the new USTs will require over-excavation and removal of materials from the west and east sidewalls of the current excavation to accommodate alignment of the tanks (Figure enclosed). To prepare for over-excavation, debris and fill materials will be removed to create trenches where temporary shoring will be installed. Upon approval of this Work Plan by the ACHCSA, Au Energy will notify ACHCSA of the work schedule and complete the scope of work presented herein.

Excavation and Soil Loading

A California state-licensed contractor utilizing a backhoe, excavator, loader and other required equipment will over-excavate and remove soils at the west and east ends of the existing excavation. It is estimated that approximately 500 cubic yards of soil, fill materials and temporarily re-used pea gravel will be removed from the excavation sidewalls and temporary shoring trenches to accommodate the new USTs. The excavated materials will be loaded directly into lined bins for offsite disposal. The materials will be profiled for acceptance at an off-site disposal facility as regulated wastes based on the analytical results summarized in Tables 1 through 3. Handling and transportation of the excavated materials will be in accordance with federal, state, and local regulations. This material will be manifested and transported to an approved disposal facility in trucks meeting requirements of the U.S. Department of Transportation-(DOT) using a California-certified waste hauler.

Request for Use of Existing Pea Gravel in the Excavation

There is an estimated 300 cubic yards of additional pea gravel located at the base of the existing excavation that was not excavated at the time of tank removal. BVNA requests that ACHCSA approve use of the base level pea gravel to support the new USTs to be installed. Based on the analytical data (Table 3), fuel related compounds detected in the pea gravel are limited to low residual concentrations of TPH-d. The in-situ pea gravel is in contact with groundwater and industrial waste materials, which is currently impacted with residual petroleum hydrocarbons. If the remaining base level pea gravel were replaced, the new clean pea gravel would come into contact with groundwater and historical industrial waste fill materials that are prevalent throughout the site vicinity and likely become similarly impacted by low residual concentrations of TPH-d. Therefore, replacing the pea gravel will not likely improve Site conditions which are degraded by the historical placement of industrial waste materials.

If you have any questions or concerns, please contact us.

Sincerely,

PROFESSIONAL GEOLOGIST
MARK WILLIAMS
No. 8641
Exp. 4/30/15
STATE OF CALIFORNIA

Mark Williams, CAC, PG
Senior Project Manager
Health, Safety and Environmental Services
(925) 426-2676
mark.williams@us.bureauveritas.com

John Werfal
Regional Director
Health, Safety and Environmental Services
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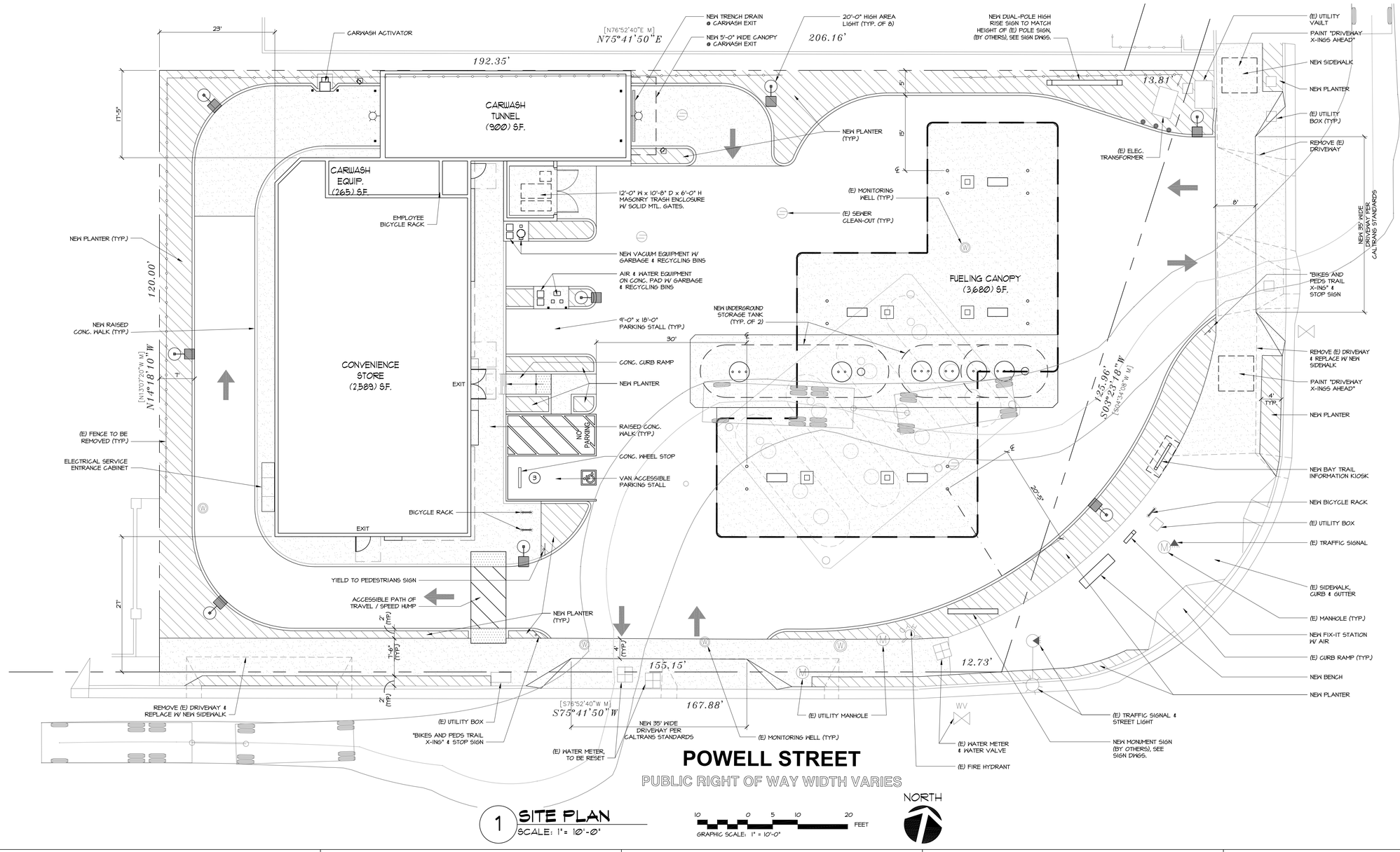
Attachments: Figure and Laboratory Analytical Report

Figure



1 **SITE PLAN**
SCALE: 1" = 10'-0"

DRAWING INDEX

PROJECT DIRECTORY

ARCHITECT
M I ARCHITECTS, INC.
2960 CAMINO DIABLO, SUITE 100
WALNUT CREEK, CA 94597
TEL: (925) 287-1174 x1
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MR. MUTHANA IBRAHIM, ARCHITECT

LANDSCAPE ARCHITECT
GIARDELLA ASSOCIATES
957 ROSE AVENUE
MENLO PARK, CA 94025
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MR. RICHARD GIARDELLA

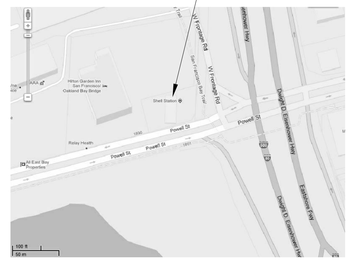
DEVELOPER
A U ENERGY, LLC
41805 ALBRAE ST., 2ND FLR.
FREMONT, CA 94538
TEL: (650) 868-7454
FAX: -
MR. NICK GOYAL

SITE PLAN LEGEND

- NEW LANDSCAPING - 3,105 S.F.
- NEW CONCRETE PAVING
- 4 FT. WIDE (MIN.) ACCESSIBLE ROUTE OF TRAVEL, SHALL NOT EXCEED 5% SLOPE IN THE DIRECTION OF TRAVEL AND 2% CROSS SLOPE
- EXISTING TO REMAIN
- EXISTING CURB TO REMAIN
- NEW CONCRETE CURB

VICINITY MAP

PROJECT SITE
APN #049-1495-001-12



NORTH

M I Architects

M I Architects, Inc.
ARCHITECTURE
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DESIGN
2960 CAMINO DIABLO
SUITE 100
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925-943-1581 Fax
925-878-9875 Cell
muthana@mlarchitect.com
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NOT FOR CONSTRUCTION

SHELL GAS STATION, CARWASH & "LOOP" CONVENIENCE STORE
1800 POWELL STREET
EMERYVILLE, CA 94608

LICENSED ARCHITECT
MUTHANA ISMAIL IBRAHIM
C-29627
6/30/2015
RENEWAL DATE
STATE OF CALIFORNIA

-	ISSUED FOR CONSTRUCTION
-	ISSUED FOR PLAN CHECK
-	ISSUED FOR PLANNING

NO.	DATE	DESCRIPTION
1	04-25-13	REVISED PER PLANNING COMMENTS
2	04-29-13	REVISED PER PLANNING COMMENTS
3	05-15-13	REVISED PER PLANNING COMMENTS
4	06-10-13	REVISED PER PLANNING COMMENTS
5	09-13-13	REVISED PER OWNER REQUEST

SITE PLAN

PROJECT #: 12-5025
DRAWN: JM CHECKED: MII
SCALE: AS NOTED DATE: 02-11-13

SD1

SHEET OF

S:\1-Projects\12-5025 Emeryville\Dwg's\Permitting\12-5025-SD1.dwg modified by Joby Melone at Sep 13, 2013 - 3:23pm

Analytical Data Sheets

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20925 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20925

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20925001	STKP-1 (A,B,C,D)-COMP, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20925002	STKP-2 (A,B,C,D)-COMP, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**1200**	**100**	**mg/Kg**	**1:10**
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	17.1 ug/kg	86 %	(65 - 135)

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

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Sparger Technology, Inc.
Environmental Laboratories

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925001	**Received**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	51 ug/kg	102 %	(65 - 135)
4-Bromofluorobenzene	53 ug/kg	106 %	(65 - 135)

Laboratory ID	20925001	**Sampled**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.59**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**2.0**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**1.1**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**10**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**21**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**54**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**25**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**6.5**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**23**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**27**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.013**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**28**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**19**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**82**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0062mg/Kg	37 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.010 mg/Kg	60 %	(30 - 145)

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Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4400 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1520 ug/kg	46 %	(30 - 135)
2-Fluorophenol	3920 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2430 ug/kg	73 %	(33 - 145)
Nitrobenzene-D5	1970 ug/kg	59 %	(25 - 134)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925001	**Received**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	3820 ug/kg	57 %	(10 - 110)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**2400**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.6 ug/kg	68 %	(65 - 135)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**20**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	55 ug/kg	110 %	(65 - 135)

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.42**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.5**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.58**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**1.4**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**12**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**38**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**27**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**7.2**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**9.7**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**16**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.037**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**29**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**21**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**45**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925002	**Received**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8082 GC PCBs - 8082 S (continued)

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0040mg/Kg	24 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.010 mg/Kg	60 %	(30 - 145)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4430 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1610 ug/kg	48 %	(30 - 135)
2-Fluorophenol	3940 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2410 ug/kg	72 %	(33 - 145)
Nitrobenzene-D5	2110 ug/kg	63 %	(25 - 134)
Phenol-D6	3980 ug/kg	60 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472870 [VMXV/3591]
Laboratory ID	111289	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472872 [VGXV/3256]
Laboratory ID	111290	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472872 [VGXV/3256]
Laboratory ID	111291	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472872 [VGXV/3256
Laboratory ID	111292	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472872 [VGXV/3256]
Laboratory ID	111293	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111294
Sample ID MSD for HBN 472872 [VGXV/3256]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	S05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472876 [PCBV/1402]
Laboratory ID 111300 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472876 [PCBV/1402]
Laboratory ID 111301 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472876 [PCBV/1402
Laboratory ID 111302 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472876 [PCBV/1402]
Laboratory ID 111303 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111304
Sample ID MSD for HBN 472876 [PCBV/1402]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111305
Sample ID MB for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111307
Sample ID LCSD for HBN 472878 [ICPV/7065
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111310
Sample ID MSD for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111311
Sample ID MB for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472880 [ICPV/7066]
Laboratory ID 111311 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472880 [ICPV/7066]
Laboratory ID 111312 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472882 [DIGV/2120]
Laboratory ID 111317 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472882 [DIGV/2120]
Laboratory ID 111318 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472882 [DIGV/2120
Laboratory ID 111319 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472882 [DIGV/2120]
Laboratory ID 111320 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472882 [DIGV/2120]
Laboratory ID 111321 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472882 [DIGV/2120]
Laboratory ID 111322 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472884 [DIGV/2121]
Laboratory ID 111323 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472884 [DIGV/2121]
Laboratory ID 111324 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472884 [DIGV/2121
Laboratory ID 111325 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472884 [DIGV/2121]
Laboratory ID 111327 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472884 [DIGV/2121]
Laboratory ID 111328 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472900 [SGXV/2937]
Laboratory ID 111339 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472900 [SGXV/2937]
Laboratory ID 111340 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472900 [SGXV/2937
Laboratory ID 111341 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472900 [SGXV/2937]
Laboratory ID 111342 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Soil		

Parameter	**RPD**	**RPD Limits**
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper	117	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	**RPD**	**RPD Limits**
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Soil		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Soil		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Original Samples 20927001 Matrix Spike [111298] Matrix Spike Duplicate [111299] **(continued)**

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene	144	129	(35-135)	11	(36 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Original Samples 20927001 Matrix Spike [111303] Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Original Samples 20925001 Matrix Spike [111309] Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead*	98.5	70.8*	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Samples**	Matrix Spike [111315]
Matrix	STLC		Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Samples**	Matrix Spike [111321]
Matrix	Soil		Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2132	**Samples**	Matrix Spike [111327]
Matrix	STLC		Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Original Samples 20925001
Matrix Spike [111332]
Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Original Samples 20926001
Matrix Spike [111342]
Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID Au Energy
QC Batch VMX 3629
Matrix Soil
Samples Lab Control Sample [111286]
Lab Control Sample Duplicate [111287]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID Au Energy
QC Batch VGX 3376
Matrix Soil
Samples Lab Control Sample [111291]
Lab Control Sample Duplicate [111292]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil

Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]
(continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7081
Matrix STLC

Samples Lab Control Sample [111312]
Lab Control Sample Duplicate [111313]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID Au Energy
QC Batch DIG 2131
Matrix Soil

Samples Lab Control Sample [111318]
Lab Control Sample Duplicate [111319]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID Au Energy
QC Batch DIG 2132
Matrix STLC

Samples Lab Control Sample [111324]
Lab Control Sample Duplicate [111325]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Sparger Technology, Inc.
Environmental Laboratories

3738 Bradview Drive
Sacramento, CA 95827
Lab: (916) 369-7688
Fax: (916) 369-7689

Profile/COC No: **20925** — —

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: / P.O. #: 051914A	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street	Sampler Signature: / Sampler Name (PRINT): Ray James
Project Address:	

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	Analysis Request: TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd, Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / TCLP (EPA 6010B)	Organic Lead (LUFT)	8270C SVOCs	8082 PCB	6010B STLC Cam 17				TAT	For Lab Use Only
1	STKP-1A	5/19/14	10:30		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
2	STKP-1B		10:35		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
3	STKP-1C		10:40		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
4	STKP-1D		10:45		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
5	STKP-2A		10:50		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
6	STKP-2B		10:55		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
7	STKP-2C		10:57		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
8	STKP-2D	5/19/14	11:00		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
9																																						
10																																						

Relinquished by:	Date	Time	Received by:	Date	Time
Ray James	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Soil Comp 1 and comp 2

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition
4	RS	5/19/14	15:00	O.K.

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20926 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LCS - Lab Control Sample
LCSD - Lab Control Sample Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample
ND - None Detected
RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

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Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20926

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20926001	STKP-3 (A,B,C,D)-COMP, Pea Gravel	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20926002	STKP-4 (A,B,C,D)-COMP, Pea Gravel	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**270**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.1 ug/kg	70 %	(65 - 135)

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**30**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	54 ug/kg	108 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926001	**Received**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	55 ug/kg	110 %	(65 - 135)

Laboratory ID	20926001	**Sampled**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.26**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.4**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.21**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.63**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**12**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**49**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**12**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**7.7**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**20**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**10.0**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.055**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**37**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**21**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**45**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0042mg/Kg	25 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0104mg/Kg	62 %	(30 - 145)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4980 ug/kg	75 %	(10 - 135)
2-Fluorobiphenyl	1330 ug/kg	40 %	(30 - 135)
2-Fluorophenol	2850 ug/kg	43 %	(21 - 110)
p-Terphenyl-D14	2980 ug/kg	89 %	(33 - 145)
Nitrobenzene-D5	1470 ug/kg	44 %	(25 - 134)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926001	**Received**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	2760 ug/kg	41 %	(10 - 110)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**550**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	15.2 ug/kg	76 %	(65 - 135)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	47.5 ug/kg	95 %	(65 - 135)

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**20**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)
Toluene d8	51 ug/kg	102 %	(65 - 135)
4-Bromofluorobenzene	54 ug/kg	108 %	(65 - 135)

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.19**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.3**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.17**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Client ID Au Energy
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Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.49**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**4.8**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**50**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**14**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**5.2**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**14**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**6.2**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.038**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**41**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**9.8**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**30**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926002	**Received**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8082 GC PCBs - 8082 S (continued)

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0050mg/Kg	30 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0101mg/Kg	61 %	(30 - 145)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4910 ug/kg	74 %	(10 - 135)
2-Fluorobiphenyl	1360 ug/kg	41 %	(30 - 135)
2-Fluorophenol	2640 ug/kg	40 %	(21 - 110)
p-Terphenyl-D14	2950 ug/kg	88 %	(33 - 145)
Nitrobenzene-D5	1720 ug/kg	51 %	(25 - 134)
Phenol-D6	2600 ug/kg	39 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111290
Sample ID MB for HBN 472872 [VGXV/3256]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111291
Sample ID LCS for HBN 472872 [VGXV/3256]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111292
Sample ID LCSD for HBN 472872 [VGXV/3256
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111293
Sample ID MS for HBN 472872 [VGXV/3256]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111294
Sample ID MSD for HBN 472872 [VGXV/3256]
Matrix **Pea Gravel**

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	S05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472876 [PCBV/1402]
Laboratory ID 111300 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472876 [PCBV/1402]
Laboratory ID 111301 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472876 [PCBV/1402
Laboratory ID 111302 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472876 [PCBV/1402]
Laboratory ID 111303 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111304
Sample ID MSD for HBN 472876 [PCBV/1402]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111305
Sample ID MB for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111307
Sample ID LCSD for HBN 472878 [ICPV/7065
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Pea Gravel

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472878 [ICPV/7065]
Laboratory ID	111309	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472878 [ICPV/7065]
Laboratory ID	111310	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472880 [ICPV/7066]
Laboratory ID	111311	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy
Laboratory ID 111311
Sample ID MB for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111312
Sample ID LCS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472882 [DIGV/2120]
Laboratory ID	111317	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472882 [DIGV/2120]
Laboratory ID	111318	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472882 [DIGV/2120
Laboratory ID	111319	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID	Au Energy	**Sample ID**	DUP for HBN 472882 [DIGV/2120]
Laboratory ID	111320	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472882 [DIGV/2120]
Laboratory ID	111321	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472882 [DIGV/2120]
Laboratory ID	111322	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472884 [DIGV/2121]
Laboratory ID	111323	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472884 [DIGV/2121]
Laboratory ID	111324	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472884 [DIGV/2121
Laboratory ID	111325	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472884 [DIGV/2121]
Laboratory ID	111327	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472884 [DIGV/2121]
Laboratory ID	111328	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472886 [VMXV/3592]
Laboratory ID	111329	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472900 [SGXV/2937]
Laboratory ID 111339 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472900 [SGXV/2937]
Laboratory ID 111340 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472900 [SGXV/2937
Laboratory ID 111341 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472900 [SGXV/2937]
Laboratory ID 111342 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Pea Gravel		

Parameter	RPD	RPD Limits
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper	117	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	RPD	RPD Limits
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Pea Gravel		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Pea Gravel		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Pea Gravel		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Pea Gravel		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Pea Gravel
Original Samples 20927001 Matrix Spike [111298] Matrix Spike Duplicate [111299] **(continued)**

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene	144	129	(35-135)	11	(36 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Pea Gravel
Original Samples 20927001 Matrix Spike [111303] Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Pea Gravel
Original Samples 20925001 Matrix Spike [111309] Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead	98.5	70.8	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7081
Matrix STLC
Original Samples 20925001
Matrix Spike [111315]
Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID Au Energy
QC Batch DIG 2131
Matrix Pea Gravel
Original Samples 20925001
Matrix Spike [111321]
Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID Au Energy
QC Batch DIG 2132
Matrix STLC
Original Samples 20925001
Matrix Spike [111327]
Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3630	**Samples**	Matrix Spike [111332]
Matrix	Pea Gravel		Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID	Au Energy	**Original**	20926001
QC Batch	SGX 2964	**Samples**	Matrix Spike [111342]
Matrix	Pea Gravel		Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111286]
QC Batch	VMX 3629		Lab Control Sample Duplicate [111287]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111291]
QC Batch	VGX 3376		Lab Control Sample Duplicate [111292]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil

Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]
(continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7081
Matrix STLC

Samples Lab Control Sample [111312]
Lab Control Sample Duplicate [111313]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID Au Energy
QC Batch DIG 2131
Matrix Soil

Samples Lab Control Sample [111318]
Lab Control Sample Duplicate [111319]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID Au Energy
QC Batch DIG 2132
Matrix STLC

Samples Lab Control Sample [111324]
Lab Control Sample Duplicate [111325]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Profile/COC No: **20926**

Page 1 of 1

Project Contact (Hardcopy or PDF To): **Sunny Goyal**

California EDF Report? ☐ Yes ☑ No

Company / Address: **Au Energy**
4185 Albrae Street
Fremont, CA 94538

Sampling Company Log Code: NA

Phone #: 510-270-3411 | Fax #: 510-270-3411

Global ID: NA

Project #: | P.O. #: 05191 4B

PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com

Project Name: 1800 Powell Street

Sampler Signature: | Sampler Name (PRINT): RAY JAMES

Project Address:

Chain-of-Custody Record and Analysis Request

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:
1	STKP-3A	5/19/14	11:05		X									X		X		
2	STKP-3B		11:10		X									X		X		
3	STKP-3C		11:15		X									X		X		
4	STKP-3D		11:20		X									X		X		
5	STKP-4A		11:25		X									X		X		
6	STKP-4B		11:30		X									X		X		
7	STKP-4C		11:35		X									X		X		
8	STKP-4D	5/19/14	11:40		X									X		X		
9																		
10																		

Analysis Request

TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd, Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / ~~TCLP~~ (EPA 6010B)	Organic Lead (LUFT)	8270C SVOCs	8082 PCB					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					

TAT: ☒ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

For Lab Use Only

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAMES	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Reg Gravel - Comp 3 & Comp 4 TS

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20927 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LCS - Lab Control Sample
LCSD - Lab Control Sample Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample
ND - None Detected
RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

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Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20927

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20927001	Debris-Mix #1, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20927002	Debris-Mix #2, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**43000**	**100**	**mg/Kg**	**1:10**
TPHkerosene	**8015B TEPH S**	**05/20/14**	**05/20/14**	**5000**	**10**	**mg/Kg**	**1:10**

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**1900**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	541 ug/kg	2700 %	(65 - 135)

1 - Non-typical TPH pattern present in gas range.

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**770**	**50**	**ug/kg**	**1:100**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1500**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**590**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**7600**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**6300**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5600**	**200**	**ug/kg**	**1:100**

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,4-Trimethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**5700**	**200**	**ug/kg**	**1:100**
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Butanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Hexanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acetone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acrolein	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Benzene	**8260B S**	**05/21/14**	**05/21/14**	**1700**	**200**	**ug/kg**	**1:100**
Bromobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromoform	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloroform	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dibromomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dichloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Ethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**7600**	**200**	**ug/kg**	**1:100**
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Iodomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Naphthalene	**8260B S**	**05/21/14**	**05/21/14**	**8600**	**100**	**ug/kg**	**1:100**
Styrene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Toluene	**8260B S**	**05/21/14**	**05/21/14**	**540**	**200**	**ug/kg**	**1:100**
Trichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
m,p-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**3700**	**200**	**ug/kg**	**1:100**
n-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**16000**	**200**	**ug/kg**	**1:100**
n-Propylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**19000**	**200**	**ug/kg**	**1:100**
o-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**1800**	**200**	**ug/kg**	**1:100**
sec-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**10000**	**200**	**ug/kg**	**1:100**
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20927	**Sampled**	05/19/14
Laboratory ID	20927001	**Received**	05/19/14
Sample ID	Debris-Mix #1	**Reported**	05/22/14
Matrix	Soil		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	57 ug/kg	114 %	(65 - 135)

Laboratory ID	20927001	**Sampled**	05/19/14
Sample ID	Debris-Mix #1	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.11**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.7**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	**6010B STLC**	**05/21/14**	**05/22/14**	**0.12**	**0.050**	**mg/L**	**1:1**
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.16**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.35**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

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Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**3.6**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**23**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**7.6**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**2.4**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**8.8**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**7.6**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.038**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**23**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**5.5**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**17**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0050mg/Kg	30 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0094mg/Kg	56 %	(30 - 145)

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Test Certificate of Analysis

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Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4420 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1340 ug/kg	40 %	(30 - 135)
2-Fluorophenol	3910 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2050 ug/kg	61 %	(33 - 145)
Nitrobenzene-D5	2090 ug/kg	63 %	(25 - 134)

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20927	**Sampled**	05/19/14
Laboratory ID	20927001	**Received**	05/19/14
Sample ID	Debris-Mix #1	**Reported**	05/22/14
Matrix	Soil		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	3440 ug/kg	52 %	(10 - 110)

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**68000**	**100**	**mg/Kg**	**1:10**
TPHkerosene	**8015B TEPH S**	**05/20/14**	**05/20/14**	**10000**	**10**	**mg/Kg**	**1:10**

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**200**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	358 ug/kg	1790 %	(65 - 135)

1 - Non-typical TPH pattern present in gas range.

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**820**	**0.50**	**ug/kg**	**1:1**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Client ID Au Energy
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Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1100**	**1.0**	**ug/kg**	**1:1**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**590**	**1.0**	**ug/kg**	**1:1**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**6800**	**1.0**	**ug/kg**	**1:1**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**17000**	**1.0**	**ug/kg**	**1:1**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5900**	**2.0**	**ug/kg**	**1:1**

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**29000**	**2.0**	**ug/kg**	**1:1**
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	**8260B S**	**05/21/14**	**05/21/14**	**1200**	**2.0**	**ug/kg**	**1:1**
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**7100**	**2.0**	**ug/kg**	**1:1**
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	**8260B S**	**05/21/14**	**05/21/14**	**8900**	**1.0**	**ug/kg**	**1:1**
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	**8260B S**	**05/21/14**	**05/21/14**	**540**	**2.0**	**ug/kg**	**1:1**
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**10000**	**2.0**	**ug/kg**	**1:1**
n-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**18000**	**2.0**	**ug/kg**	**1:1**
n-Propylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**13000**	**2.0**	**ug/kg**	**1:1**
o-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**6000**	**2.0**	**ug/kg**	**1:1**
sec-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**22000**	**2.0**	**ug/kg**	**1:1**
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	54 ug/kg	108 %	(65 - 135)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.11**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.5**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	**6010B STLC**	**05/21/14**	**05/22/14**	**0.12**	**0.050**	**mg/L**	**1:1**
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.18**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1

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Client ID Au Energy
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Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.35**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**7.9**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**337**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**20**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**4.5**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**15**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**36**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.013**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**38**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**16**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**139**	**1.5**	**mg/Kg**	**1:1**

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Client ID Au Energy
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Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0030mg/Kg	18 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0093mg/Kg	56 %	(30 - 145)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	**8270C**	**05/20/14**	**05/21/14**	**4400**	**3300**	**ug/kg**	**1:10**
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4380 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1480 ug/kg	44 %	(30 - 135)
2-Fluorophenol	4200 ug/kg	63 %	(21 - 110)
p-Terphenyl-D14	2380 ug/kg	72 %	(33 - 145)
Nitrobenzene-D5	2630 ug/kg	79 %	(25 - 134)
Phenol-D6	3710 ug/kg	56 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472870 [VMXV/3591]
Laboratory ID 111289 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472872 [VGXV/3256]
Laboratory ID 111290 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472872 [VGXV/3256]
Laboratory ID 111291 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472872 [VGXV/3256
Laboratory ID 111292 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472872 [VGXV/3256]
Laboratory ID 111293 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472872 [VGXV/3256]
Laboratory ID	111294	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	S05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472876 [PCBV/1402]
Laboratory ID	111300	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472876 [PCBV/1402]
Laboratory ID	111301	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472876 [PCBV/1402
Laboratory ID	111302	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472876 [PCBV/1402]
Laboratory ID	111303	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472876 [PCBV/1402]
Laboratory ID	111304	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472878 [ICPV/7065]
Laboratory ID	111305	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472878 [ICPV/7065]
Laboratory ID	111306	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0 mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0 mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0 mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50 mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0 mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0 mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5 mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111307
Sample ID LCSD for HBN 472878 [ICPV/7065
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0 mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0 mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0 mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30 mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50 mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0 mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0 mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0 mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0 mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0 mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0 mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0 mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50 mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0 mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0 mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5 mg/Kg	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0 mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472878 [ICPV/7065]
Laboratory ID	111309	**Matrix**	Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472878 [ICPV/7065]
Laboratory ID	111310	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472880 [ICPV/7066]
Laboratory ID	111311	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy
Laboratory ID 111311
Sample ID MB for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111312
Sample ID LCS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472882 [DIGV/2120]
Laboratory ID	111317	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472882 [DIGV/2120]
Laboratory ID	111318	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472882 [DIGV/2120
Laboratory ID	111319	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID	Au Energy	**Sample ID**	DUP for HBN 472882 [DIGV/2120]
Laboratory ID	111320	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472882 [DIGV/2120]
Laboratory ID	111321	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472882 [DIGV/2120]
Laboratory ID	111322	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472884 [DIGV/2121]
Laboratory ID	111323	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472884 [DIGV/2121]
Laboratory ID	111324	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472884 [DIGV/2121
Laboratory ID	111325	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472884 [DIGV/2121]
Laboratory ID	111327	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472884 [DIGV/2121]
Laboratory ID	111328	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472886 [VMXV/3592]
Laboratory ID	111329	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC05/21/14		05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC05/21/14		05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC05/21/14		05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC05/21/14		05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC05/21/14		05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC05/21/14		05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC05/21/14		05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC05/21/14		05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC05/21/14		05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC05/21/14		05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC05/21/14		05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC05/21/14		05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC05/21/14		05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC05/21/14		05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC05/21/14		05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC05/21/14		05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC05/21/14		05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC05/21/14		05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC05/21/14		05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC05/21/14		05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC05/21/14		05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC05/21/14		05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC05/21/14		05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC05/21/14		05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472886 [VMXV/3592]
Laboratory ID	111333	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472900 [SGXV/2937]
Laboratory ID	111339	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472900 [SGXV/2937]
Laboratory ID	111340	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472900 [SGXV/2937
Laboratory ID	111341	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472900 [SGXV/2937]
Laboratory ID	111342	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Scientific Division

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Soil		

Parameter	**RPD**	**RPD Limits**
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper*	117*	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	**RPD**	**RPD Limits**
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Soil		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Soil		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Original Samples 20927001 Matrix Spike [111298] Matrix Spike Duplicate [111299] **(continued)**

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene*	144*	129	(35-135)	11	(36 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Original Samples 20927001 Matrix Spike [111303] Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Original Samples 20925001 Matrix Spike [111309] Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead*	98.5	70.8*	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Samples**	Matrix Spike [111315]
Matrix	STLC		Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Samples**	Matrix Spike [111321]
Matrix	Soil		Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2132	**Samples**	Matrix Spike [111327]
Matrix	STLC		Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3630	**Samples**	Matrix Spike [111332]
Matrix	Soil		Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID	Au Energy	**Original**	20926001
QC Batch	SGX 2964	**Samples**	Matrix Spike [111342]
Matrix	Soil		Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111286]
QC Batch	VMX 3629		Lab Control Sample Duplicate [111287]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111291]
QC Batch	VGX 3376		Lab Control Sample Duplicate [111292]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil

Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]
(continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7081
Matrix STLC

Samples Lab Control Sample [111312]
Lab Control Sample Duplicate [111313]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID Au Energy
QC Batch DIG 2131
Matrix Soil

Samples Lab Control Sample [111318]
Lab Control Sample Duplicate [111319]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID Au Energy
QC Batch DIG 2132
Matrix STLC

Samples Lab Control Sample [111324]
Lab Control Sample Duplicate [111325]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Sparger Technology, Inc.
Environmental Laboratories

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Profile/COC No: **20927**

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Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: / P.O. #: 091914C	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street	Sampler Signature: / Sampler Name (PRINT): RAY JAMES
Project Address:	

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Sleeve	Poly	1-L amber	Tedlar	Other: Jar	Preservative: HCl	HNO_3	NaOH	H_2SO_4	Other: 4°C / ICE	Matrix: Water	Soil	Air	Other:	Analysis Request: TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / ~~TCLP (EPA 6010B)~~	Organic Lead (LUFT)	8270C - SVOC + Volatiles	8082 - PCBs	TAT
1	Debri-Mix #1	5-19-14	11:45						X					X		X			X	X	X				X		X	X		X	X
2																															
3	Debri-Mix #2	5-19-14	11:50						X					X		X			X	X	X				X		X	X		X	X
4																															
5																															
6																															
7																															
8																															
9																															
10																															

TAT: ☐ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

For Lab Use Only

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAMES	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Debri-Mix #1 and Mix #2

Bill to:

For Lab Use Only Sample Receipt

Temp °C	Initials	Date	Time	Condition