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UST CLOSURE REPORT

Former Eagle Gas
1395 US Hwy 395 North
Gardnerville, Nevada 89410
Nevada Brownfields Program
Task MA-02-14
NDEP Spill Report #140109-02
Facility ID #2-000007

Prepared on behalf of:

Town of Gardnerville
c/o Tom Dallaire
1407 Highway 395 North
Gardnerville, Nevada 89410

Prepared for:

Nevada Division of Environmental Protection
Nevada Brownfields Program
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

and

Nevada Division of Environmental Protection
Bureau of Corrective Actions
Attn: Xavier Tarango-Castorena
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

March 3, 2014

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1. INTRODUCTION

McGinley and Associates, Inc. (MGA) has prepared this report describing the closure by removal of two underground storage tanks (UST) at 1395 US Hwy 395 North in Gardnerville, Nevada. The UST removal activities discussed herein were conducted for the Town of Gardnerville in conjunction with the Nevada Division of Environmental Protection (NDEP) Brownfields program. The site is known as "Former Eagle Gas" and its location is indicated in Figure 1. The USTs removed had the following characteristics:

- Tank 1: 1,050 gallon heating oil (Steel)
- Tank 2: 500 gallon waste oil (Steel)

Included herein is information requested in the Nevada Division of Environmental Protection (NDEP) letter dated January 16, 2014.

2. SCOPE OF WORK

The USTs were removed on January 7, 2014. UST closure activities were conducted by Bramco Construction, Inc (Bramco) of Sparks, Nevada. A MGA representative was onsite to monitor the closure activities and collect soil samples. The locations of the USTs are shown in Figure 2.

The UST closure activities included the following:

- Site mobilization;
- Removal of residual material from the USTs;
- Preparation of USTs for removal via rinsing;
- Excavation of soil to relieve USTs;
- Removal of one 1,050 gallon heating oil UST and one 500 gallon waste oil UST;
- Collection of two soil samples from beneath each removed UST;
- Collection of soil samples from stockpiled materials for disposal characterization purposes (as needed);
- Analytical testing of collected soil samples for Total Petroleum Hydrocarbons (TPH) purgeable and extractable;
- Analytical testing of select collected soil samples for Volatile Organic Compounds (VOCs) and poly-aromatic hydrocarbons (PAHs);
- Transportation of contaminated soil to the Nevada Thermal Services (NTS) facility in Mustang, Nevada;
- Transportation of the removed USTs to Best Environmental for recycling;
- Backfilling the excavation with remaining excavated soil and clean, imported material;
- Surface restoration of the site;
- Reporting the release to the Nevada Division of Environmental Protection (NDEP); and
- Preparing this report.

Each of these activities is discussed in the following sections.

2.1 Site Mobilization

On January 6, 2014, Bramco mobilized to the site. Per Davis-Bacon requirements, prevailing wage and employment posters were attached to the outside wall of the building. At the commencement of the project the following entities and their representatives were present:

- Bramco (UST Contractor): John Madewell and Scott Pender
- McGinley & Associates (CEM): George Hagan
- Town of Gardnerville (Site Owner): Tom Dallaire, Geoffrey LaCost, and Candace Stowell
- NDEP (Brownfields Program): David Friedman

2.2 Removal of Residual Product and Rinsing of USTs

Prior to excavation, all remaining product in the USTs were removed by Best Environmental for disposal. Once the residual product in the USTs was removed, each UST was triple rinsed by Bramco. Approximately 467 gallons of product and rinseate was removed from the tanks for disposal. The certificate of recycling for the liquid waste is provided in Appendix A.

2.3 Excavation of USTs

The soil surrounding the USTs was excavated utilizing a backhoe. Excavated soil exhibited a petroleum odor and staining. The apparent petroleum contaminated soil was placed on plastic and covered with plastic pending analytical testing and offsite disposal. The approximate limit of the UST excavation is shown on Figure 2.

2.4 UST Removal and Disposal

The USTs were removed from the excavation utilizing front loading equipment. The following characteristics of each UST were observed during removal:

Tank ID	Tank Volume	Tank Dimensions	Observations
1	1,050 (Heating Oil)	L = 11’8” D = 3’11”	Signs of corrosion through the entire vessel with holes visible in both the end walls and side walls.
2	500 (Waste Oil)	L = 6’2” D = 3’10”	Signs of corrosion through the entire vessel with several holes being visible.

Photographs of the USTs are provided in Appendix B. Each tank was loaded onto a flatbed trailer and transported by Best Environmental for recycling (see documentation in Appendix C).

2.5 Backfill of Excavation

Following completion of soil sampling activities, the excavation was backfilled with clean overburden material and imported fill (pea gravel and aggregate base). The soil that was placed back into the excavation was compacted.

2.6 Observations Made During Excavation and Removal of UST Systems

During excavation activities, the following were observed which indicated potential leaks:

- Each UST exhibited extensive corrosion throughout.

- Each UST exhibited corrosion holes.
- Impacted soils were encountered and removed from around and beneath each tank.
- Impacted soils located beneath the heating oil tank were observed to 15.5 feet bgs (groundwater encountered at this depth).
- An apparent petroleum product sheen was observed on the groundwater in the excavation for the heating oil UST .

3. INITIAL ASSESSMENT ACTIVITIES

3.1 Soil Sample Collection and Analysis

Following removal of the USTs a MGA representative collected one soil sample from beneath each end of the USTs within native soil not more than two feet from the bottom of the UST. The approximate location of the soil samples are shown in Figure 2. The soil samples were placed in laboratory-provided glass jars with Teflon lids, sealed, labeled, and preserved on ice in a cooler pending delivery to the laboratory. All collected samples were analyzed by Alpha Analytical, a State of Nevada certified laboratory for TPH, purgeable and extractable by EPA Method 8015 modified for petroleum hydrocarbons. In addition, samples with reported TPH concentration exceeding 100 mg/Kg were analyzed for VOCs and PAH . Select soil samples were also analyzed for toxicity characteristic leaching procedure (TCLP) 7 metals.

3.2 Excavation of Exploratory Test Pit

Due to perceived impacts beneath the heating oil UST, an exploratory test pit was advanced at the center of the tank excavation using the onsite backhoe to assess the vertical extent of the impacted soil. Excavated soil was stockpiled onsite pending offsite disposal. The exploratory test pit extended to approximately 15.5 feet below ground surface at which point groundwater was encountered. Petroleum product impacts were evident in the soils at the bottom of the test and an apparent sheen was observed on the groundwater.

MGA personnel collected a soil sample from the bottom of the test pit using the backhoe (sample designation: *LVBRN021-HO-SS-CEN.BOT@15.5FT*). The soil sample was placed in a laboratory-provided sample container, sealed, labeled, and preserved on ice in a cooler pending delivery to the laboratory.

3.3 Backfill of Excavation

Following completion of sampling activities, both excavations were covered with steel trench plates. Fencing was placed around the excavations for security purposes. Backfill activities were commenced and concluded on February 28, 2014. Surface completion utilizing an asphalt cold mix was provided once the excavations were backfilled.

3.4 Analytical Testing

Collected soil samples were delivered under chain-of-custody protocol to Alpha Analytical Laboratories (Alpha) of Sparks, Nevada for analytical testing. Alpha is a State of Nevada certified laboratory. Collected samples were analyzed for TPH (Purgeable and/or Extractable) by EPA Method 8015 modified for petroleum hydrocarbons. In addition, selected samples were analyzed for VOCs (full suite utilizing EPA Method SW8260), PAHs (Select Ion Mode (SIM) by EPA Method SW SW8270C), and/or TCLP Metals by EPA

Method SW 6020/6020A. Copies of the chain of custody records for the soil samples are provided in Appendix D.

3.5 Analytical Results

The analytical results for the TPH soil samples are summarized in Table 1 and Figure 2 (TPH-E results only). A TPH-E concentration of 710 milligrams per kilogram (mg/Kg) in the range of Diesel Range Organics (DRO) was reported in the soil sample collected at the extent of the heating oil UST excavation while a TPH-E concentration of 110 mg/Kg in the range of Oil Range Organics (ORO) was reported in the soil sample collected at the extent of the waste oil UST excavation. No detectable concentrations of VOCs were reported in the waste oil UST excavated soil stockpile (LVBRN021-WO-SP1) and no VOCs above reportable limits were reported in the heating oil excavated soil stockpile (LVBRN021-HO-SP1). In addition, no PAHs were reported in the sample at the extent of the waste oil UST excavation (LVBRN021-WO-SS-E.BOT@11FT). Lastly, TCLP metals results were reported to be non-detect for all metals within all samples, except for barium, which was found to be 5.1 mg/L in the waste oil soil stockpile sample (LVBRN021-WO-SP1). Copies of the analytical reports for the soil samples are provided in Appendix D.

Table 1. Summary of TPH Analytical Results for Soil Samples

SAMPLE ID	DATE	LOCATION	DEPTH (fbgs)	TPH		
				GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)
LVBRN021-WO-SS-W.BOT@8.5FT	1/7/13	Beneath West End of WO Tank	8.5	< 10	27	130
LVBRN021-WO-SS-E.BOT@8.5FT	1/7/13	Beneath East End of WO Tank	8.5	< 10	40	280
LVBRN021-WO-SS-E.BOT@11FT	1/7/13	Beneath East End of WO Tank	11	< 10	22	110
LVBRN021-HO-SS-E.BOT@11FT	1/7/13	Beneath East End of HO Tank	11	NA	730	< 10
LVBRN021-HO-SS-W.BOT@11FT	1/7/13	Beneath West End of HO Tank	11	NA	4,100	250
LVBRN021-HO-SS-CEN.BOT@15.5FT	1/7/13	Beneath Center of HO Tank	15.5	NA	710	< 10
LVBRN021-HO-SP1	1/7/13	HO Stockpile	-	NA	3,900	260
LVBRN021-HO-SP2	1/7/13	HO Stockpile	-	NA	560	< 10
LVBRN021-WO-SP1	1/7/13	WO Stockpile	-	<10	230	820
LVBRN021-WO-SP2	1/7/13	WO Stockpile	-	<10	43	230

NA	Not Analyzed
WO	Waste Oil
HO	Heating Oil
TPH	Total Petroleum Hydrocarbons
GRO	Gasoline Range Organics, C4-C13
DRO	Diesel Range Organics, C13-C22
ORO	Oil Range Organics, C22-C40+
Fbgs	feet below ground surface
mg/Kg	milligrams per kilogram

3.6 Soil Disposal

Contaminated soil excavated during UST removal and initial assessment activities was transported by Bramco to NTS for thermal treatment. Approximately 50 tons of soil was transported to NTS. The bill of lading for the soil is provided in Appendix E.

4. REGULATORY REPORTING

In accordance with the Nevada Administrative Code (NAC) 445A.345 to 445A.348, MGA telephonically reported the release from both USTs to the NDEP on January 9, 2014. A copy of the NDEP spill report (NDEP #140109-02) is provided in Appendix F.

5. INFORMATION REQUESTED BY NDEP

Following reporting of the release the NDEP issued a letter requesting additional information relating to the release (NDEP letter dated January 16, 2014). The information requested in Attachment B of the NDEP's January 16th letter (*Information for All Other Sites*) is provided below:

1. Description of the Release of Hazardous or Regulated Substances:

(a) Type of material released, including any available documentation (e.g. Material Safety Data Sheets or test results);

The material released was heating oil and (diesel fuel) and used oil.

(b) Estimated quantity of material released and the estimation technique utilized;

The quantity of product released is not known.

(c) Date and time of release or of the release discovery;

The release was discovered on January 7, 2014 (date USTs were removed);

(d) Cause of the release;

The cause of the release was corrosion of the USTs.

(e) A description of measures taken to correct and prevent recurrence of incident;

The USTs were removed.

(f) Potential for hazard related to fire, vapor, or explosion;

Based on the nature of the product released (heavy end hydrocarbons), the depth of the contaminated soil and the absence of VOCs in the soil samples collected during initial assessment activities, it does not appear that the residual impacted soil poses a fire, vapor or explosion hazard.

(g) A description of any damage known to the operator to have been caused by the release;

No known damage was caused by the release.

2. Description of the Site Conditions and Surrounding Areas:

(a) Township Range and Section;

The site is located in the SE ¼ of the SW ¼ of Section 33, Township 13N, Range 20E of the Mount Diablo Baseline Meridian (MDBM).

(b) Spill Location Information:

i. Latitude/Longitude in decimal degrees (North American Datum 83);

Latitude: 38.9396^0

Longitude: -119.7465^0

ii. Estimated accuracy in feet;

$\pm$ 100 feet.

iii. Location determination method used;

ArcGIS Explorer

(c) Depth to groundwater and how estimated;

Groundwater was encountered at approximately 15.5 feet below ground surface during initial assessment activities.

(d) Soil Classification (e.g. ASTM D 2487-00 Standard Practice for Classification of Soil for Engineering Purposes) of impacted, underlying and surrounding soils);

Soils encountered during UST excavation consisted of boulders, large rocks, cobbles, and irregular coarse sands.

(e) Annual precipitation;

Minden, NV had approximately 2.5 inches of rain in 2013 (Reference: National Climate Data Center).

(f) Description and identification and location of any threatened, endangered, or sensitive plant or animal species in the area which may have been or has the potential to be impacted by the Release, if warranted;

The release does not appear to pose a threat to any known threatened, endangered, or sensitive plant or animal species.

(g) Names and correspondence address information for all adjacent property owners and location of their property in relation to the Release;

A site map showing adjacent properties, including assessor parcel number (APN) and owner name and mailing address, is provided in Figure 3.

(h) Scaled drawing(s) depicting:

i. Property, adjacent properties, and current land uses;

See Figure 3. The subject property and surrounding properties are used for residential or business purposes.

ii. Locations and description of underground utilities;

The location of underground utilities on the subject property is not known.

iii. Drainage features and structures;

No storm water drainage features other than roadway drainage features were observed at the site. It is important to note that this was a subsurface release and therefore no petroleum product should enter any drainage features.

iv. Roadways and right-of-way;

The subject property is located on the northwest corner of US Highway 395 North and Mission Street in Gardnerville, NV (See Figure 1).

v. Release surface area boundaries;

This is a subsurface release. The extent of petroleum product impacts is not known at this time.

vi. Locations of structures or other impediments to subsurface investigation or clean-up;

Investigation and cleanup are impeded by aboveground and underground structures (e.g. onsite building, building footings, UST systems that remain in place, underground utilities, etc.). The removed USTs were located adjacent to the onsite building and near the UST systems that remain in place (see Figure 2).

vii. Municipal, domestic, and irrigation supply wells within 1 mile of the Release location;

MGA conducted a review of the NDWR well database to determine number of wells in this area. Five municipal wells, one irrigation well and 19 domestic wells were identified in the MDBM sections located within a

one mile radius of the subject site. The location of the nearest domestic and municipal well is not known at this time.

3. Sample Results

(a) All available testing results (such as laboratory or field soil and/or groundwater sample analysis) including chain-of-custody sheets, description of sample collection and preservation methods, analytical test methods used, laboratory result sheets with analytical detection limits, and "confirmation" sample results;

See Table 1, Figure 2 and Appendix D.

(b) Scaled drawing depicting release surface area boundaries, excavation boundaries, and location and depth of each soil/water sample;

See Figure 2.

4. For non-residential properties, if the specific release source (location and/or container) and timing of the release cannot be identified, then you must evaluate past chemical use on the property by submitting a Phase I Environmental Site Assessment conducted by a Certified Environmental Manager, or by other method(s) approved by the Division, conducted in accordance with accepted industry standards:

Not applicable, the release sources are known (heating oil and used oil UST).

5. Description of investigation or cleanup activities completed, underway, and/or proposed:

(a) Names and contact information for contractors and consultants employed and scope of duties and responsibilities;

UST closure and initial assessment activities were conducted by Bramco (Mike Cecchi, 775-356-1781) and MGA personnel (George Hagan, 775-829-2245). Analytical testing of soil samples was conducted by Alpha Analytical of Sparks, Nevada.

(b) A description of completed abatement, containment, and/or remediation activities conducted to date and disposition of any liquid wastes or contaminated soil (include bills of lading, disposal certificates or manifest documentation) including location of soil removal activities and quantity of soil removed and source of material used for backfill;

See Section 4, Figure 2 and Appendix E.

(c) Extent of contamination (i.e. lateral and vertical dimensions and volume of impacted soil). If the full extent is not yet defined, then provide details and a schedule for future characterization activities;

Impacts from heating oil UST extend vertically to groundwater. The lateral extent of residual impacted soil is not known at this time. A work plan to assess the extent of impacted soil and assess for impacts to groundwater will be submitted under separate cover.

(d) Description of sample collection and preservation procedures, analytical test methods, and sample location and depth for all samples collected to date and proposed;

See Section 4 and Section 9.

(e) Description of proposed additional site characterization and/or remediation activities;

A work plan to assess the extent of impacted soil and assess for impacts to groundwater will be submitted under separate cover.

(f) Scaled drawing depicting (can be included on Drawing(s) associated with 2.(c) above):

i. Surface area boundaries of release incident

This is a subsurface release. The lateral extent of petroleum product impacts is not known at this time.

ii. Locations of abatement and remediation activities

See Figure 2. The excavation at the former heating oil UST extended vertically to groundwater.

iii. Future/proposed sampling locations;

A work plan to assess the extent of impacted soil and assess for impacts to groundwater will be submitted under separate cover.

6. CONCLUSIONS

6.1 Waste Oil UST

Although a TPH concentration exceeding the regulatory reporting limit (100 mg/Kg) was reported in the soil sample collected from beneath the waste oil UST, the chemical concentrations in this soil sample do not exceed the NDEP closure screening levels for soil (Ref: Table 2 of *NDEP Petroleum in Soils Closure Policy, Draft, 2/17/12*). Based on the relatively low TPH concentration reported in this soil sample, it is our opinion that no further activities in the form of assessment and/or remediation are warranted for the waste oil UST.

6.2 Heating Oil UST

The petroleum impacts associated with the heating oil release extend to groundwater. A sheen was observed on the groundwater in the UST excavation which suggests groundwater has been impacted by this release. Additional assessment activities are necessary to assess extent of soil and groundwater impacts. A work plan for the additional assessment activities will be submitted under separate cover.

7. RECOMMENDATIONS

The following recommendations are provided:

- Based on analytical data for constituents found within soil samples collected from beneath the waste oil UST, we recommend a No Further Action determination be issued for the used oil release pursuant to subsection 1 of NAC 445A.227 and NDEP's draft *Petroleum in Soils Closure Policy, February 17, 2012*.
- We further recommend further assessment be conducted to assess the extent of soil and groundwater impacts associated with the heating oil release. This information will be evaluated to determine is any additional corrective action is warranted.

8. LIMITATIONS

The conclusions presented herein are partially based on information provided by MGA. MGA makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The results reported herein are applicable to the time the sampling occurred. Changes in site hydrogeology may occur as a result of rainfall, snowmelt, water usage, or other factors.

It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact science. Judgments and opinions leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. Additional information not found or available to MGA at the time of writing this report may result in a modification to the conclusions and recommendations contained herein.

The presentation of data presented herein is intended for the purpose of the visualization of environmental conditions. A greater degree of spatial and temporal data density may result in a more accurate representation of environmental conditions. Although such data visualization techniques may aid in providing a conceptual understanding of environmental conditions, such presentations are not intended to completely depict environmental conditions.

This report is not a legal opinion. The services performed by MGA have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied.

9. CLOSING

MGA and Mr. Dallaire trust the information provided satisfies the requirements of the NDEP at this time. Should you have any questions regarding this report, or the recommendations provided herein, please contact the undersigned at (702) 260-4961.

Respectfully submitted,

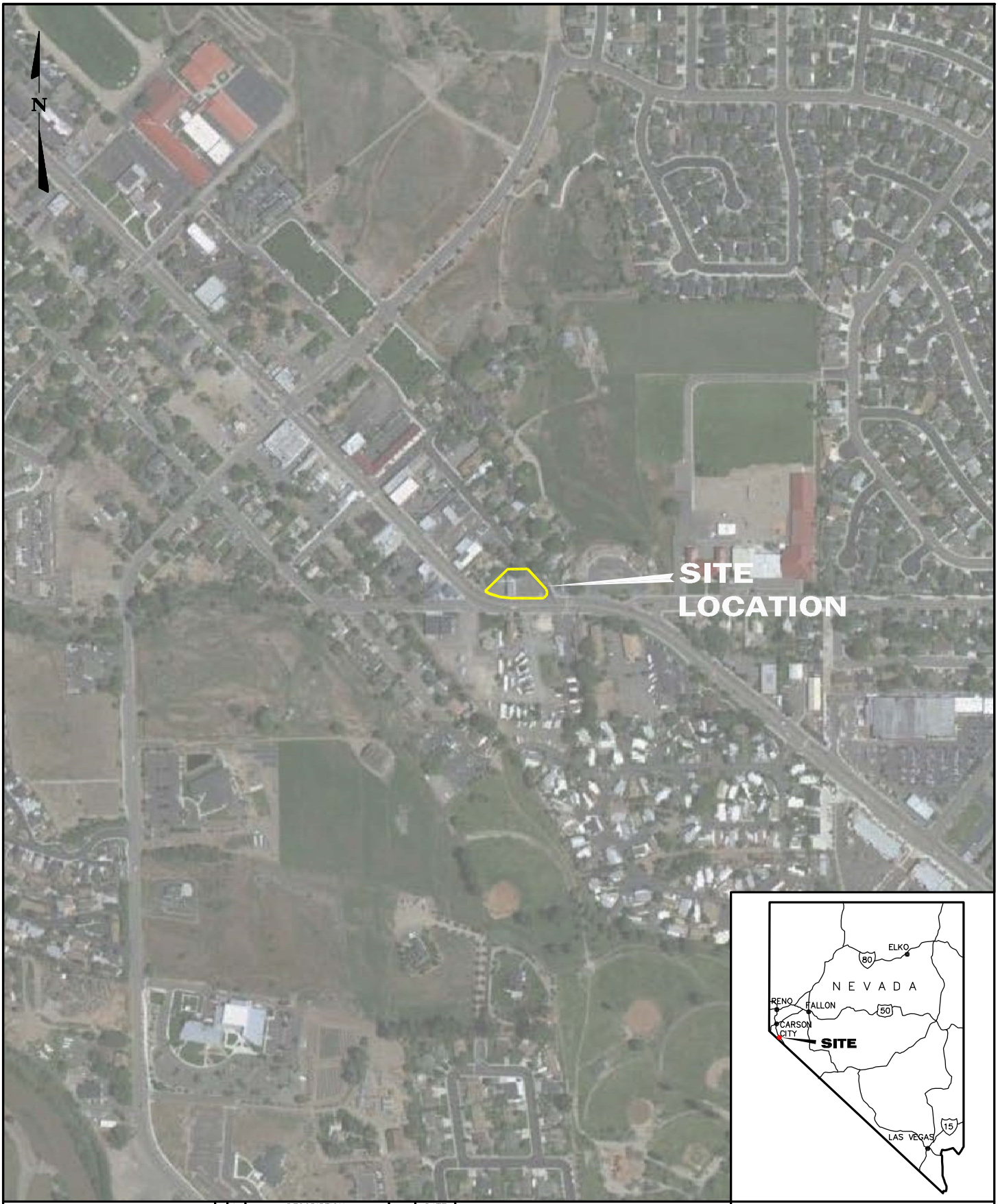
McGinley and Associates, Inc.

I, Brett Bottenberg, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations, and ordinances.

Brett Bottenberg, C.E.M # 1690, Exp. 10/7/2015
Senior Project Manager

Reviewed by:

Tracy Johnston, P.E., C.E.M.
Senior Project Manager



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FEET

REVISIONS	No.	DESCRIPTION	BY	DATE

A	DESIGNED	TJ	
JOB NO. LVBRN021	DRAWN	TAD	
REFERENCE	CHECKED		

FIGURE 1

PROJECT LOCATION MAP
-SHOWING-
1395 US HWY 395
GARDNERVILLE, NEVADA

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Environmental Engineering and Science
RENO | LAS VEGAS | www.mcgln.com

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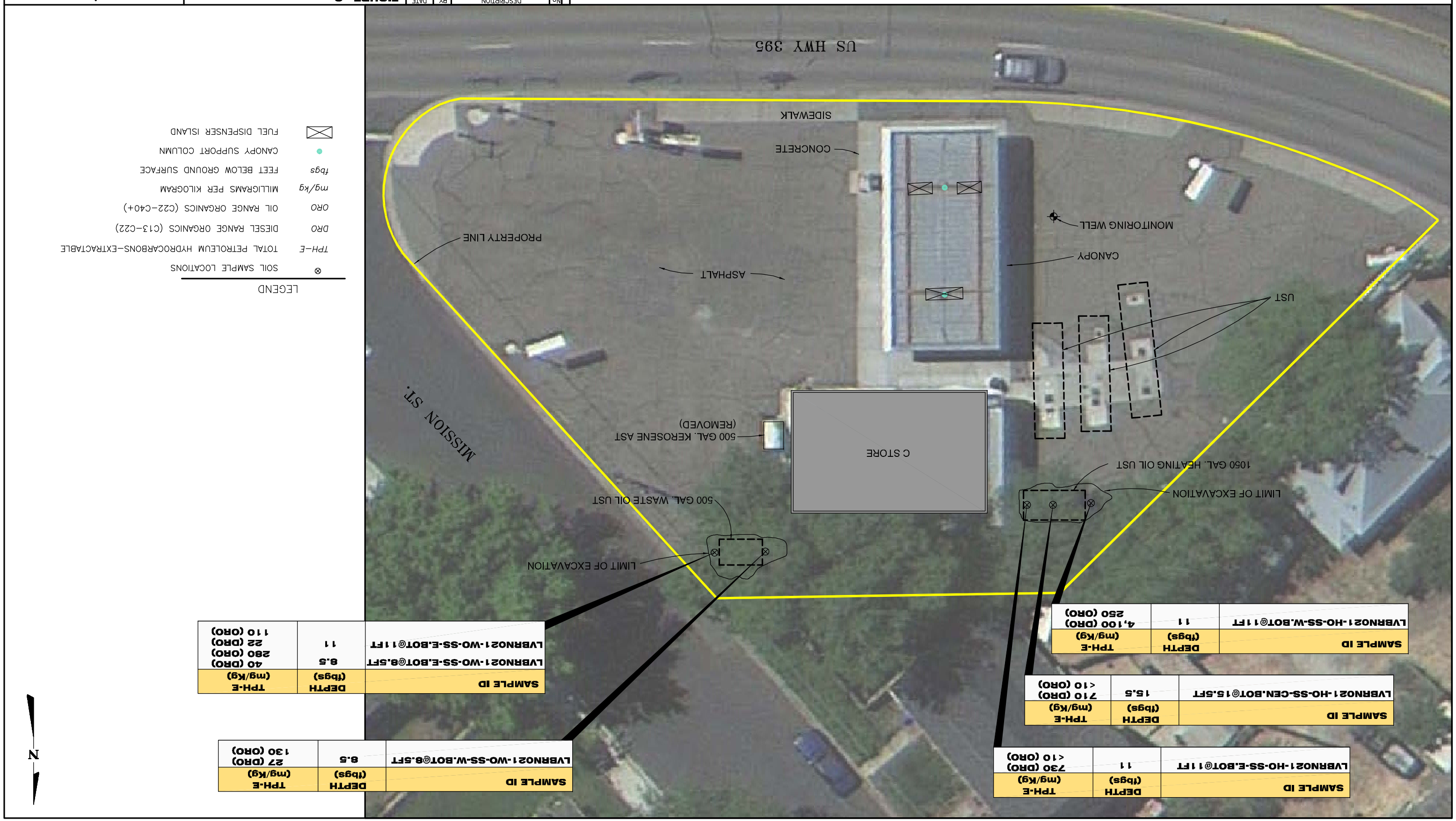
Thursday, January 16, 2014



SAMPLE ID	DEPTH (fbgs)	TPH-E (mg/kg)
LVBRNO21-HO-SS-E.BOT@11FT	11	730 (DRO) <10 (ORO)

SAMPLE ID	DEPTH (fbgs)	TPH-E (mg/kg)
LVBRNO21-HO-SS-CEN.BOT@15.5FT	15.5	710 (DRO) <10 (ORO)

SAMPLE ID	DEPTH (fbgs)	TPH-E (mg/kg)
LVBRNO21-HO-SS-W.BOT@11FT	11	4,100 (DRO) 250 (ORO)

SAMPLE ID	DEPTH (fbgs)	TPH-E (mg/kg)
LVBRNO21-WO-SS-E.BOT@8.5FT	8.5	40 (DRO) 280 (ORO)
LVBRNO21-WO-SS-E.BOT@11FT	11	22 (DRO) 110 (ORO)

SAMPLE ID	DEPTH (fbgs)	TPH-E (mg/kg)
LVBRNO21-WO-SS-W.BOT@8.5FT	8.5	27 (DRO) 130 (ORO)

LEGEND

⊗	SOIL SAMPLE LOCATIONS
TPH-E	TOTAL PETROLEUM HYDROCARBONS–EXTRACTABLE
DRO	DIESEL RANGE ORGANICS (C13–C22)
ORO	OIL RANGE ORGANICS (C22–C40+)
mg/kg	MILLIGRAMS PER KILOGRAM
fbgs	FEET BELOW GROUND SURFACE
●	CANOPY SUPPORT COLUMN
⊠	FUEL DISPENSER ISLAND

No.	DESCRIPTION	BY	DATE
REVISIONS			

REFERENCE	
DESIGNED	BB
DRAWN	TAD
CHECKED	

JOB NO. LVBRNO21

FIGURE 2
PROJECT LOCATION MAP
-SHOWING-
FORMER UST LOCATION, SOIL SAMPLE LOCATION, AND ANALYTICAL RESULTS
EAGLE GAS GARDNERVILLE
1395 US HWY 395 NORTH
GARDNERVILLE, NEVADA

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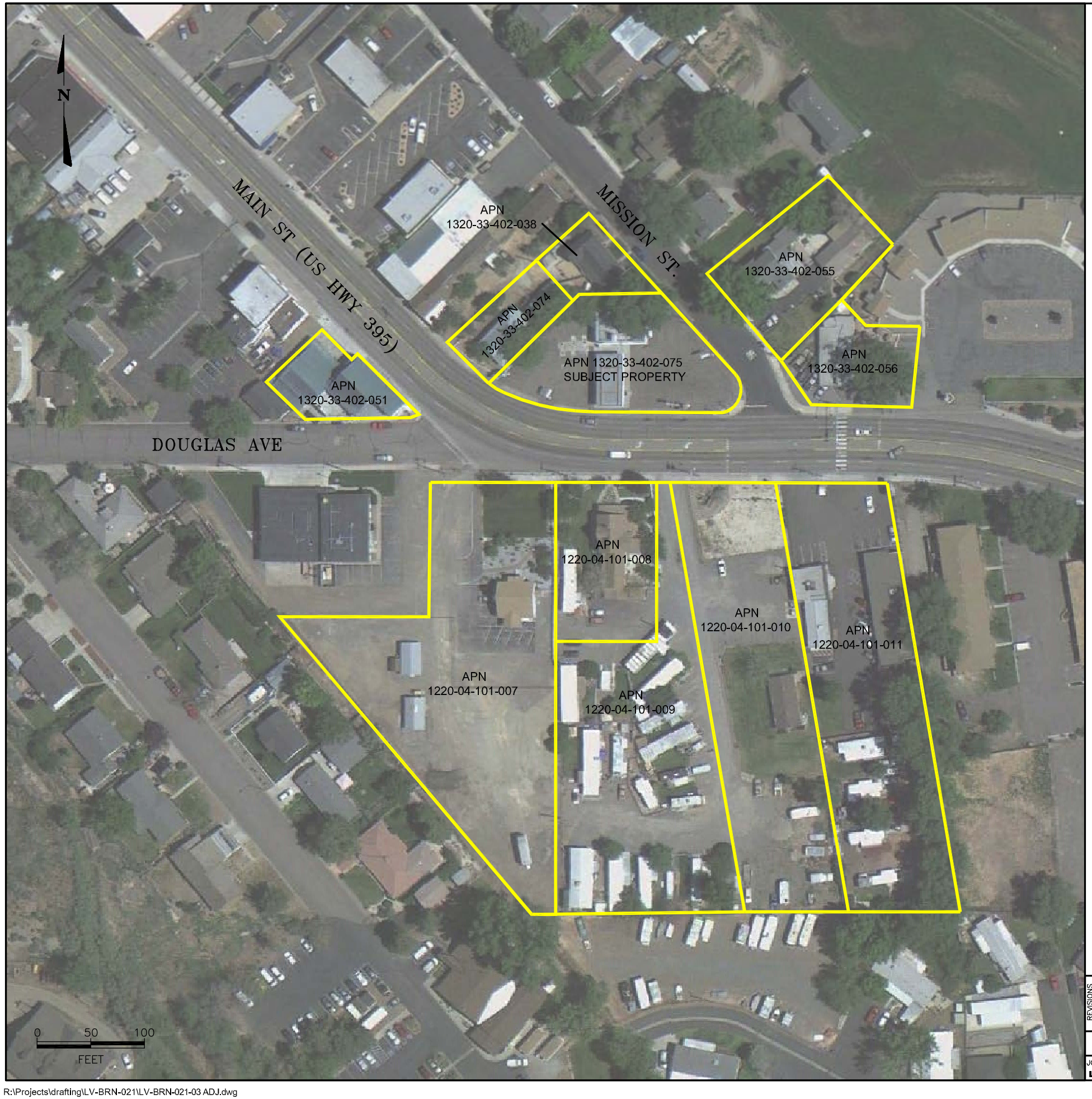
Friday, February 14, 2014



APN	Owner	Mailing Address
1320-33-402-075 (Subject Property)	Town of Gardnerville	1407 N Hwy 395 Gardnerville, NV 89410
1320-33-402-038	Zellick, Janet L	100 Chisholm Rd. Markleeville, CA 96120
1320-33-402-051	Sedgwick, Rory & Janice	154 Kaluamoo St. Kailua, HI 96734
1320-33-402-055	Pedrojetti, PM & Owen, Vicki M	PO Box 283 Gardnerville, NV 89410
1320-33-402-056	Charlin, Ronald Et Al	1437 Briarwood Ave. Littleton, CO 80120
1320-33-402-074	Nishikida, Davis J & Joseph J	PO Box 67 Gardnerville, NV 89410
1220-04-101-007	Gardnerville Town Water Co.	1579 Virginia Ranch Rd. Gardnerville, NV 89410
1220-04-101-008	Allen, Gary & Diana Trustees	951 Rubio Wy. Gardnerville, NV 89460
1220-04-101-009	Allen, Gary & Diana K	951 Rubio Wy. Gardnerville, NV 89460
1220-04-101-010	Allen, Gary & Diana K	951 Rubio Wy. Gardnerville, NV 89460
1220-04-101-011	Neddenriep, Kent & Johnson, Marie	176 Hwy 68 Gardnerville, NV 89460

REVISIONS

No.	DESCRIPTION	BY	DATE

REFERENCE

DESIGNED	BB	
DRAWN	TAD	
CHECKED		

JOB NO. LVBRN021

FIGURE

SITE MAP
-SHOWING-
ADJACENT PARCELS
EAGLE GAS GARDNERVILLE
1395 US HWY 395 NORTH
GARDNERVILLE, NEVADA

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Friday, February 14, 2014

APPENDIX A

Certificate of Recycling – UST Liquid Waste

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CERTIFICATE OF RECYCLING

Presented to

Bramco Construction

This is to certify that the waste stream received from 1395 US HWY 395 N Gardnerville NV 89410..... on the date 01-06-14 Manifest #204151..... was recycled by BEST ENVIRONMENTAL LLC in accordance with all State and Federal Regulations.

Presented by

BEST ENVIRONMENTAL LLC

YOUR BEST ENVIRONMENTAL LLC / REPRESENTATIVE
P O Box # 349
Silver Springs, NV 89429
(775) 577-9001

APPENDIX B

UST Photographs

Excavation of heating oil tank

Stockpiled soil from heating oil tank excavation

Heating oil tank removed

Corrosion damage on heating oil tank

Corrosion damage on heating oil tank

Corrosion damage on heating oil tank

Waste oil tank excavation

Waste oil tank ready for removal from excavation

Waste oil tank corrosion damage

Waste oil tank corrosion damage

Waste oil tank removed from excavation

USTs ready for disposal

APPENDIX C

Certificate of Recycling for USTs

BEST ENVIRONMENTAL, LLC
2430 Almond Drive – P O Box 349 – Silver Springs, NV 89429-0349
PH: (775) 577-9001 FAX: (775) 577-9199
EPA ID #: NVD982358483 FED ID #: 45-0920025 Sales/Dispatch #: (800) 471-2105

CERTIFICATE OF DESTRUCTION

This certifies that the materials listed below are being sent offsite for destruction/recycling by Best Environmental, LLC (Generator) from their facility located at 2430 Almond Drive – Silver Springs, NV.

The following underground storage tanks (UST) have been rendered harmless in accordance with NAC 444.84555 regulatory requirements and in compliance with Best Environmental LLC's UST Written Determination of Hazardous Waste Recycling of Petroleum USTS from the State of Nevada, Division on Environmental Protection.

Certified by: X _____ Date: 1-8-14

John A Reeder, Plant Manager

CERTIFICATE OF ACCEPTANCE

These tanks have/will be disposed of as scrap metal or otherwise recycled by the following Recycler: BEST ENVIRONMENTAL LLC., at their approved facility located at 2430 Almond Drive – Silver Springs, NV 89429 Phone #: (775)577-9001.

TANK DESCRIPTION: (TO BE COMPLETED BY RECYCLER)

Date Received	Tank #	Manifest/BOL #	Tank Size	Date of Disposal
01-07-14	NV01-07-14	204245	1-500 1-1000	01-08-2014

Received and accepted by: X _____ Date 1-8-14

Recycler – John A Reeder

Original to Recycler, Copy to Best Environmental LLC, Copy to Generator's NDEP UST
File.Zip:FormUSTCert.doc

BRAMCO
CONSTRUCTION CORP.
NEVADA LICENSE # 19292 - LIMIT $6 MILLION
CALIFORNIA LICENSE # 682446

EXCAVATION • GRADING • DEMOLITION • UTILITIES • SEPTIC SYSTEMS
FUEL TANK SPECIALISTS • ENVIRONMENTAL SPECIALISTS

ABOVEGROUND STORAGE TANK RECYCLE AFFIDAVIT

I, Michael I. Cecchi, Owner of Bramco Construction Corporation, do depose and say:

That I received from: Bramco Construction Corporation
325 S. 18th Street
Sparks, NV 89431

The General Contractor for: The Town of Gardnerville
Gardnerville, NV

a Aboveground Storage Tank:(s), more particularly described as follows:

(1) 500 gallon former Aboveground Storage Tank and stand

(2) _____

(3) _____

I further state that I have or will comply with all the guidelines and regulations required by the Nevada Department of Environmental Protection, Capitol Complex, Carson City, Nevada 89710, and the local City, County, and State regulations, specifically permits and inspections, in the use and/or future disposal of the above-referenced Aboveground Storage Tank:(s).

I further state that the AST # 1 has/have been suitable cleaned for its intended use and is being used for industrial purposes and/or for fire water protection (AST's are not intended for storage of food or liquids intended for human/animal consumption) at; To be determined

325 S. 18th ST. • SPARKS, NEVADA 89431-5514 • (775) 356-1781 • FAX (775) 356-6122

BRAMCO
CONSTRUCTION CORP.
NEVADA LICENSE # 19292 - LIMIT $6 MILLION
CALIFORNIA LICENSE # 682446

EXCAVATION • GRADING • DEMOLITION • UTILITIES • SEPTIC SYSTEMS
FUEL TANK SPECIALISTS • ENVIRONMENTAL SPECIALISTS

That I, Michael I. Cecchi, hereby state and affirm that I release and hold harmless **Bramco Construction Corporation,** and the The Town of Gardnerville from all liability and responsibility in the use and disposal of the aforementioned Aboveground Storage Tank(s)

That I, Michael I. Cecchi, understand that I am solely responsible and liable for complying with all regulations, laws, safety precautions and common sense in the handling and use of these aboveground storage tank(s).

Signature: _____

M. HICKS
Notary Public, State of Nevada
Appointment No. 11-5850-2
My Appt. Expires Sep 29, 2015

STATE OF NEVADA
COUNTY OF Washoe

This instrument was acknowledged before me, this 13th day of January 2014
by Michael I. Cecchi

_____, Notary Public

Signature: _____

STATE OF NEVADA
COUNTY OF Douglas
This instrument was acknowledged before me, this 14th day of January 2014
by Tom Dallaire

_____, Notary Public

CAROL A. LOUTHAN
Notary Public, State of Nevada
Appointment No. 01-69162-5
My Appt. Expires May 1, 2017

Signature: _____

STATE OF NEVADA
COUNTY OF _____
This instrument was acknowledged before me, this _____ day of _____ 20____
by _____

_____, Notary Public

APPENDIX D

Chain of Custody Records and Analytical Reports for Soil Samples

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

McGinley & Associates, Inc.
815 Maestro Drive
Reno, NV 89511

Attn: George Hagan
Phone: (775) 829-2245
Fax: (775) 829-2213
Date Received : 01/07/14

Job: LVBRN021/Town of Gardnerville

TCLP Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **LVBRN021-WO-SS-W.BOT@8.5FT**				
Lab ID : MGA14010727-01A Chromium (Cr)	ND	0.10 mg/L	01/09/14	01/09/14
Date Sampled 01/07/14 09:00 Arsenic (As)	ND	0.10 mg/L	01/09/14	01/09/14
Selenium (Se)	ND	0.10 mg/L	01/09/14	01/09/14
Silver (Ag)	ND	0.10 mg/L	01/09/14	01/09/14
Cadmium (Cd)	ND	0.10 mg/L	01/09/14	01/09/14
Barium (Ba)	ND	1.0 mg/L	01/09/14	01/09/14
Lead (Pb)	ND	0.10 mg/L	01/09/14	01/09/14
Client ID: **LVBRN021-WO-SS-E.BOT@11FT**				
Lab ID : MGA14010727-03A Chromium (Cr)	ND	0.10 mg/L	01/09/14	01/09/14
Date Sampled 01/07/14 10:23 Arsenic (As)	ND	0.10 mg/L	01/09/14	01/09/14
Selenium (Se)	ND	0.10 mg/L	01/09/14	01/09/14
Silver (Ag)	ND	0.10 mg/L	01/09/14	01/09/14
Cadmium (Cd)	ND	0.10 mg/L	01/09/14	01/09/14
Barium (Ba)	ND	1.0 mg/L	01/09/14	01/09/14
Lead (Pb)	ND	0.10 mg/L	01/09/14	01/09/14
Client ID: **LVBRN021-HO-SP1**				
Lab ID : MGA14010727-07A Chromium (Cr)	ND	0.10 mg/L	01/09/14	01/09/14
Date Sampled 01/07/14 12:15 Arsenic (As)	ND	0.10 mg/L	01/09/14	01/09/14
Selenium (Se)	ND	0.10 mg/L	01/09/14	01/09/14
Silver (Ag)	ND	0.10 mg/L	01/09/14	01/09/14
Cadmium (Cd)	ND	0.10 mg/L	01/09/14	01/09/14
Barium (Ba)	ND	1.0 mg/L	01/09/14	01/09/14
Lead (Pb)	ND	0.10 mg/L	01/09/14	01/09/14
Client ID: **LVBRN021-WO-SP1**				
Lab ID : MGA14010727-10A Chromium (Cr)	ND	0.10 mg/L	01/09/14	01/09/14
Date Sampled 01/07/14 12:26 Arsenic (As)	ND	0.10 mg/L	01/09/14	01/09/14
Selenium (Se)	ND	0.10 mg/L	01/09/14	01/09/14
Silver (Ag)	ND	0.10 mg/L	01/09/14	01/09/14
Cadmium (Cd)	ND	0.10 mg/L	01/09/14	01/09/14
Barium (Ba)	5.1	1.0 mg/L	01/09/14	01/09/14
Lead (Pb)	ND	0.10 mg/L	01/09/14	01/09/14

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.

1/14/14

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

McGinley & Associates, Inc.
815 Maestro Drive
Reno, NV 89511
Job: LVBRN021/Town of Gardnerville

Attn: George Hagan
Phone: (775) 829-2245
Fax: (775) 829-2213

Alpha Analytical Number: MGA14010727-03A
Client I.D. Number: LVBRN021-WO-SS-E.BOT@11FT

Sampled: 01/07/14 10:23
Received: 01/07/14
Extracted: 01/14/14 12:30
Analyzed: 01/16/14

Semivolatile Organics by GC/MS - SIM
EPA Method SW8270C

	Compound	Concentration	Reporting Limit
1	Naphthalene	ND	25 µg/Kg
2	2-Methylnaphthalene	ND	25 µg/Kg
3	1-Methylnaphthalene	ND	25 µg/Kg
4	Acenaphthylene	ND	25 µg/Kg
5	Acenaphthene	ND	25 µg/Kg
6	Fluorene	ND	25 µg/Kg
7	Phenanthrene	ND	25 µg/Kg
8	Anthracene	ND	25 µg/Kg
9	Fluoranthene	ND	25 µg/Kg
10	Pyrene	ND	25 µg/Kg
11	Benzo(a)anthracene	ND	25 µg/Kg
12	Chrysene	ND	25 µg/Kg
13	Benzo(b&k)fluoranthene, isomeric pair	ND	50 µg/Kg
14	Benzo(a)pyrene	ND	25 µg/Kg
15	Indeno(1,2,3-cd)pyrene	ND	25 µg/Kg
16	Dibenz(a,h)anthracene	ND	25 µg/Kg
17	Benzo(g,h,i)perylene	ND	25 µg/Kg

Note: EPA Method 8270C CC compounds Acenaphthene, Fluoranthene and Benzo(a)pyrene were evaluated in the CV at the method criteria of 80-120% recovery.

Sample results were calculated on a wet weight basis.
ND = Not Detected

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV000016.

NELAP ACCREDITED TNI LABORATORY

1/16/14
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

McGinley & Associates, Inc.
815 Maestro Drive
Reno, NV 89511

Attn: George Hagan
Phone: (775) 829-2245
Fax: (775) 829-2213
Date Received : 01/07/14

Job: LVBRN021/Town of Gardnerville

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**LVBRN021-WO-SS-W.BOT@8.5FT**						
Lab ID :	MGA14010727-01A	TPH-E (DRO)	27	L	10 mg/Kg	01/07/14	01/08/14
Date Sampled	01/07/14 09:00	TPH-E (ORO)	130		10 mg/Kg	01/07/14	01/08/14
		TPH-P (GRO)	ND		10 mg/Kg	01/07/14	01/08/14
Client ID :	**LVBRN021-WO-SS-E.BOT@8.5FT**						
Lab ID :	MGA14010727-02A	TPH-E (DRO)	40	L	10 mg/Kg	01/07/14	01/08/14
Date Sampled	01/07/14 09:09	TPH-E (ORO)	280		10 mg/Kg	01/07/14	01/08/14
		TPH-P (GRO)	ND		10 mg/Kg	01/07/14	01/08/14
Client ID :	**LVBRN021-WO-SS-E.BOT@11FT**						
Lab ID :	MGA14010727-03A	TPH-E (DRO)	22	L	10 mg/Kg	01/07/14	01/08/14
Date Sampled	01/07/14 10:23	TPH-E (ORO)	110		10 mg/Kg	01/07/14	01/08/14
		TPH-P (GRO)	ND		10 mg/Kg	01/07/14	01/08/14
Client ID :	**LVBRN021-HO-SS-E.BOT@11FT**						
Lab ID :	MGA14010727-04A	TPH-E (DRO)	730		100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 09:46	TPH-E (ORO)	ND		100 mg/Kg	01/07/14	01/07/14
Client ID :	**LVBRN021-HO-SS-W.BOT@11FT**						
Lab ID :	MGA14010727-05A	TPH-E (DRO)	4,100		100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 09:48	TPH-E (ORO)	250		100 mg/Kg	01/07/14	01/07/14
Client ID :	**LVBRN021-HO-SS-CEN.BOT@15.5FT**						
Lab ID :	MGA14010727-06A	TPH-E (DRO)	710		100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 09:57	TPH-E (ORO)	ND		100 mg/Kg	01/07/14	01/07/14
Client ID :	**LVBRN021-HO-SP1**						
Lab ID :	MGA14010727-07A	TPH-E (DRO)	3,900		100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 12:15	TPH-E (ORO)	260		100 mg/Kg	01/07/14	01/07/14
Client ID :	**LVBRN021-HO-SP2**						
Lab ID :	MGA14010727-08A	TPH-E (DRO)	560		100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 12:17	TPH-E (ORO)	ND		100 mg/Kg	01/07/14	01/07/14
Client ID :	**LVBRN021-WO-SP2**						
Lab ID :	MGA14010727-09A	TPH-E (DRO)	230	L	100 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 12:20	TPH-E (ORO)	820		100 mg/Kg	01/07/14	01/07/14
		TPH-P (GRO)	ND		10 mg/Kg	01/07/14	01/08/14
Client ID :	**LVBRN021-WO-SP1**						
Lab ID :	MGA14010727-10A	TPH-E (DRO)	43	L	10 mg/Kg	01/07/14	01/07/14
Date Sampled	01/07/14 12:26	TPH-E (ORO)	230		10 mg/Kg	01/07/14	01/07/14
		TPH-P (GRO)	ND		10 mg/Kg	01/07/14	01/08/14

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.

NELAP ACCREDITED TNI LABORATORY

1/8/14

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

McGinley & Associates, Inc.
815 Maestro Drive
Reno, NV 89511
Job: LVBRN021/Town of Gardnerville

Attn: George Hagan
Phone: (775) 829-2245
Fax: (775) 829-2213

Alpha Analytical Number: MGA14010727-07A
Client I.D. Number: LVBRN021-HO-SP1

Sampled: 01/07/14 12:15
Received: 01/07/14
Extracted: 01/07/14 14:37
Analyzed: 01/08/14

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	200	µg/Kg	36 m,p-Xylene	ND	100	µg/Kg
2	Chloromethane	ND	800	µg/Kg	37 Bromoform	ND	200	µg/Kg
3	Vinyl chloride	ND	200	µg/Kg	38 Styrene	ND	200	µg/Kg
4	Chloroethane	ND	200	µg/Kg	39 o-Xylene	ND	100	µg/Kg
5	Bromomethane	ND	800	µg/Kg	40 1,1,2,2-Tetrachloroethane	ND	200	µg/Kg
6	Trichlorofluoromethane	ND	200	µg/Kg	41 1,2,3-Trichloropropane	ND	800	µg/Kg
7	1,1-Dichloroethene	ND	200	µg/Kg	42 Isopropylbenzene	ND	200	µg/Kg
8	Dichloromethane	ND	800	µg/Kg	43 Bromobenzene	ND	200	µg/Kg
9	trans-1,2-Dichloroethene	ND	200	µg/Kg	44 n-Propylbenzene	470	200	µg/Kg
10	Methyl tert-butyl ether (MTBE)	ND	100	µg/Kg	45 4-Chlorotoluene	ND	200	µg/Kg
11	1,1-Dichloroethane	ND	200	µg/Kg	46 2-Chlorotoluene	ND	200	µg/Kg
12	cis-1,2-Dichloroethene	ND	200	µg/Kg	47 1,3,5-Trimethylbenzene	ND	200	µg/Kg
13	Bromochloromethane	ND	200	µg/Kg	48 tert-Butylbenzene	ND	200	µg/Kg
14	Chloroform	ND	200	µg/Kg	49 1,2,4-Trimethylbenzene	430	200	µg/Kg
15	2,2-Dichloropropane	ND	200	µg/Kg	50 sec-Butylbenzene	ND	200	µg/Kg
16	1,2-Dichloroethane	ND	200	µg/Kg	51 1,3-Dichlorobenzene	ND	200	µg/Kg
17	1,1,1-Trichloroethane	ND	200	µg/Kg	52 1,4-Dichlorobenzene	ND	200	µg/Kg
18	1,1-Dichloropropene	ND	200	µg/Kg	53 4-Isopropyltoluene	ND	200	µg/Kg
19	Carbon tetrachloride	ND	200	µg/Kg	54 1,2-Dichlorobenzene	ND	200	µg/Kg
20	Benzene	ND	100	µg/Kg	55 n-Butylbenzene	1,300	200	µg/Kg
21	Dibromomethane	ND	200	µg/Kg	56 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200	µg/Kg
22	1,2-Dichloropropane	ND	200	µg/Kg	57 1,2,4-Trichlorobenzene	ND	800	µg/Kg
23	Trichloroethene	ND	200	µg/Kg	58 Naphthalene	1,100	800	µg/Kg
24	Bromodichloromethane	ND	200	µg/Kg	59 Hexachlorobutadiene	ND	800	µg/Kg
25	cis-1,3-Dichloropropene	ND	200	µg/Kg	60 1,2,3-Trichlorobenzene	ND	800	µg/Kg
26	trans-1,3-Dichloropropene	ND	200	µg/Kg				
27	1,1,2-Trichloroethane	ND	200	µg/Kg				
28	Toluene	ND	100	µg/Kg				
29	1,3-Dichloropropane	ND	200	µg/Kg				
30	Dibromochloromethane	ND	200	µg/Kg				
31	1,2-Dibromoethane (EDB)	ND	800	µg/Kg				
32	Tetrachloroethene	ND	200	µg/Kg				
33	1,1,1,2-Tetrachloroethane	ND	200	µg/Kg				
34	Chlorobenzene	ND	200	µg/Kg				
35	Ethylbenzene	170	100	µg/Kg				

Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.
ND = Not Detected

ACCLASS ACCREDITED DoD ELAP

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
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NELAP ACCREDITED TNI LABORATORY

1/8/14
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

McGinley & Associates, Inc.
815 Maestro Drive
Reno, NV 89511
Job: LVBRN021/Town of Gardnerville

Attn: George Hagan
Phone: (775) 829-2245
Fax: (775) 829-2213

Alpha Analytical Number: MGA14010727-10A
Client I.D. Number: LVBRN021-WO-SP1

Sampled: 01/07/14 12:26
Received: 01/07/14
Extracted: 01/07/14 14:37
Analyzed: 01/08/14

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	20	µg/Kg
2	Chloromethane	ND	80	µg/Kg
3	Vinyl chloride	ND	20	µg/Kg
4	Chloroethane	ND	20	µg/Kg
5	Bromomethane	ND	80	µg/Kg
6	Trichlorofluoromethane	ND	20	µg/Kg
7	1,1-Dichloroethene	ND	20	µg/Kg
8	Dichloromethane	ND	80	µg/Kg
9	trans-1,2-Dichloroethene	ND	20	µg/Kg
10	Methyl tert-butyl ether (MTBE)	ND	20	µg/Kg
11	1,1-Dichloroethane	ND	20	µg/Kg
12	cis-1,2-Dichloroethene	ND	20	µg/Kg
13	Bromochloromethane	ND	20	µg/Kg
14	Chloroform	ND	20	µg/Kg
15	2,2-Dichloropropane	ND	20	µg/Kg
16	1,2-Dichloroethane	ND	20	µg/Kg
17	1,1,1-Trichloroethane	ND	20	µg/Kg
18	1,1-Dichloropropene	ND	20	µg/Kg
19	Carbon tetrachloride	ND	20	µg/Kg
20	Benzene	ND	20	µg/Kg
21	Dibromomethane	ND	20	µg/Kg
22	1,2-Dichloropropane	ND	20	µg/Kg
23	Trichloroethene	ND	20	µg/Kg
24	Bromodichloromethane	ND	20	µg/Kg
25	cis-1,3-Dichloropropene	ND	20	µg/Kg
26	trans-1,3-Dichloropropene	ND	20	µg/Kg
27	1,1,2-Trichloroethane	ND	20	µg/Kg
28	Toluene	ND	20	µg/Kg
29	1,3-Dichloropropane	ND	20	µg/Kg
30	Dibromochloromethane	ND	20	µg/Kg
31	1,2-Dibromoethane (EDB)	ND	80	µg/Kg
32	Tetrachloroethene	ND	20	µg/Kg
33	1,1,1,2-Tetrachloroethane	ND	20	µg/Kg
34	Chlorobenzene	ND	20	µg/Kg
35	Ethylbenzene	ND	20	µg/Kg
36	m,p-Xylene	ND	20	µg/Kg
37	Bromoform	ND	20	µg/Kg
38	Styrene	ND	20	µg/Kg
39	o-Xylene	ND	20	µg/Kg
40	1,1,2,2-Tetrachloroethane	ND	20	µg/Kg
41	1,2,3-Trichloropropane	ND	80	µg/Kg
42	Isopropylbenzene	ND	20	µg/Kg
43	Bromobenzene	ND	20	µg/Kg
44	n-Propylbenzene	ND	20	µg/Kg
45	4-Chlorotoluene	ND	20	µg/Kg
46	2-Chlorotoluene	ND	20	µg/Kg
47	1,3,5-Trimethylbenzene	ND	20	µg/Kg
48	tert-Butylbenzene	ND	20	µg/Kg
49	1,2,4-Trimethylbenzene	ND	20	µg/Kg
50	sec-Butylbenzene	ND	20	µg/Kg
51	1,3-Dichlorobenzene	ND	20	µg/Kg
52	1,4-Dichlorobenzene	ND	20	µg/Kg
53	4-Isopropyltoluene	ND	20	µg/Kg
54	1,2-Dichlorobenzene	ND	20	µg/Kg
55	n-Butylbenzene	ND	20	µg/Kg
56	1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/Kg
57	1,2,4-Trichlorobenzene	ND	80	µg/Kg
58	Naphthalene	ND	80	µg/Kg
59	Hexachlorobutadiene	ND	80	µg/Kg
60	1,2,3-Trichlorobenzene	ND	80	µg/Kg

Sample results were calculated on a wet weight basis.
ND = Not Detected

ACCREDITED ACLASS DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV00016.

NELAP ACCREDITED TNI LABORATORY

1/8/14
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 13-Jan-14

QC Summary Report

Work Order: 14010727

Method Blank

Type **MBLK** Test Code: **EPA Method SW1311/SW6020**

File ID: **026_** Batch ID: **32274T** Analysis Date: **01/09/2014 19:48**

Sample ID: **MB-32274** Units : **mg/L** Run ID: **ICP/MS_140109B** Prep Date: **01/09/2014 10:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	0.1								
Arsenic (As)	ND	0.1								
Selenium (Se)	ND	0.1								
Silver (Ag)	ND	0.1								
Cadmium (Cd)	ND	0.1								
Barium (Ba)	ND	1								
Lead (Pb)	ND	0.1								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW1311/SW6020**

File ID: **028_** Batch ID: **32274T** Analysis Date: **01/09/2014 19:54**

Sample ID: **LCS-32274** Units : **mg/L** Run ID: **ICP/MS_140109B** Prep Date: **01/09/2014 10:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.256	0.01	0.25		102	80	120			
Arsenic (As)	0.259	0.005	0.25		104	80	120			
Selenium (Se)	0.264	0.005	0.25		106	80	120			
Silver (Ag)	0.258	0.005	0.25		103	80	120			
Cadmium (Cd)	0.251	0.002	0.25		100	80	120			
Barium (Ba)	2.32	0.005	2.5		93	80	120			
Lead (Pb)	0.242	0.005	0.25		97	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW1311/SW6020**

File ID: **030_** Batch ID: **32274T** Analysis Date: **01/09/2014 19:59**

Sample ID: **14010820-02AMS** Units : **mg/L** Run ID: **ICP/MS_140109B** Prep Date: **01/09/2014 10:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.266	0.01	0.25	0.0142	101	75	125			
Arsenic (As)	0.254	0.005	0.25	0	102	75	125			
Selenium (Se)	0.235	0.005	0.25	0	94	75	125			
Silver (Ag)	0.241	0.005	0.25	0	96	75	125			
Cadmium (Cd)	0.245	0.002	0.25	0	98	75	125			
Barium (Ba)	2.48	0.005	2.5	0.1693	93	75	125			
Lead (Pb)	0.249	0.005	0.25	0	99	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW1311/SW6020**

File ID: **031_** Batch ID: **32274T** Analysis Date: **01/09/2014 20:02**

Sample ID: **14010820-02AMSD** Units : **mg/L** Run ID: **ICP/MS_140109B** Prep Date: **01/09/2014 10:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.269	0.01	0.25	0.0142	102	75	125	0.2659	1.0(20)	
Arsenic (As)	0.264	0.005	0.25	0	106	75	125	0.2539	3.9(20)	
Selenium (Se)	0.254	0.005	0.25	0	102	75	125	0.2353	7.7(20)	
Silver (Ag)	0.251	0.005	0.25	0	101	75	125	0.2412	4.1(20)	
Cadmium (Cd)	0.252	0.002	0.25	0	101	75	125	0.2447	2.9(20)	
Barium (Ba)	2.56	0.005	2.5	0.1693	96	75	125	2.483	3.0(20)	
Lead (Pb)	0.25	0.005	0.25	0	99.9	75	125	0.2486	0.4(20)	

Comments:

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Date: *20-Jan-14*

QC Summary Report

Work Order: 14010727

Method Blank

Type **MBLK** Test Code: **EPA Method SW8270C**

File ID: **14011603.D** Batch ID: **32292** Analysis Date: **01/16/2014 14:16**

Sample ID: **MBLK-32292** Units : **µg/Kg** Run ID: **MSD_16_140114A** Prep Date: **01/14/2014 12:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Naphthalene	ND	25								
2-Methylnaphthalene	ND	25								
1-Methylnaphthalene	ND	25								
Acenaphthylene	ND	25								
Acenaphthene	ND	25								
Fluorene	ND	25								
Phenanthrene	ND	25								
Anthracene	ND	25								
Fluoranthene	ND	25								
Pyrene	ND	25								
Benzo(a)anthracene	ND	25								
Chrysene	ND	25								
Benzo(b&k)fluoranthene, isomeric pair	ND	50								
Benzo(a)pyrene	ND	25								
Indeno(1,2,3-cd)pyrene	ND	25								
Dibenz(a,h)anthracene	ND	25								
Benzo(g,h,i)perylene	ND	25								
Surr: 2-Fluorobiphenyl	413		312.5		132	47	137			
Surr: 4-Terphenyl-d14	432		312.5		138	27	141			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8270C**

File ID: **14011609.D** Batch ID: **32292** Analysis Date: **01/16/2014 16:53**

Sample ID: **LCS-32292** Units : **µg/Kg** Run ID: **MSD_16_140114A** Prep Date: **01/14/2014 12:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Acenaphthene	327	25	312.5		105	42	138			
Pyrene	315	25	312.5		101	29	143			
Surr: 2-Fluorobiphenyl	484		312.5		155	47	137			S55
Surr: 4-Terphenyl-d14	394		312.5		126	27	141			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8270C**

File ID: **14011610.D** Batch ID: **32292** Analysis Date: **01/16/2014 17:19**

Sample ID: **14011034-01AMS** Units : **µg/Kg** Run ID: **MSD_16_140114A** Prep Date: **01/14/2014 12:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Acenaphthene	330	25	312.5	0	106	20	162			
Pyrene	462	25	312.5	0	148	10	159			
Surr: 2-Fluorobiphenyl	475		312.5		152	47	137			S55
Surr: 4-Terphenyl-d14	525		312.5		168	27	141			S55

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8270C**

File ID: **14011611.D** Batch ID: **32292** Analysis Date: **01/16/2014 17:45**

Sample ID: **14011034-01AMSD** Units : **µg/Kg** Run ID: **MSD_16_140114A** Prep Date: **01/14/2014 12:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Acenaphthene	307	25	312.5	0	98	20	162	330.1	7.2(32)	
Pyrene	323	25	312.5	0	103	10	159	461.6	35.4(49)	
Surr: 2-Fluorobiphenyl	512		312.5		164	47	137			S55
Surr: 4-Terphenyl-d14	472		312.5		151	27	141			S55

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Date: *20-Jan-14*

QC Summary Report

Work Order: 14010727

Comments:

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S55 = Surrogate recovery was above laboratory acceptance limits.

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Date: *14-Jan-14*

QC Summary Report

Work Order: 14010727

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A01071405.D** Batch ID: **32266** Analysis Date: **01/07/2014 17:03**

Sample ID: **MBLK-32266** Units : **mg/Kg** Run ID: **FID_2_140107B** Prep Date: **01/07/2014 14:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	10								
TPH-E (ORO)	ND	10								
Surr: Nonane	6.93		6		115	65	160			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A01071406.D** Batch ID: **32266** Analysis Date: **01/07/2014 17:28**

Sample ID: **LCS-32266** Units : **mg/Kg** Run ID: **FID_2_140107B** Prep Date: **01/07/2014 14:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	50.7	5	50		101	70	130			
Surr: Nonane	6.75		6		112	65	160			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A01071427.D** Batch ID: **32266** Analysis Date: **01/08/2014 10:55**

Sample ID: **14010727-10AMS** Units : **mg/Kg** Run ID: **FID_2_140107B** Prep Date: **01/07/2014 14:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	189	5	200	42.7	73	46	150			
Surr: Nonane	6.64		6		111	65	160			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A01071428.D** Batch ID: **32266** Analysis Date: **01/08/2014 11:20**

Sample ID: **14010727-10AMSD** Units : **mg/Kg** Run ID: **FID_2_140107B** Prep Date: **01/07/2014 14:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	203	5	200	42.7	80	46	150	189.4	7.1(42)	
Surr: Nonane	8.65		6		144	65	160			

Comments:

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Date: *14-Jan-14*

QC Summary Report

Work Order: 14010727

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14010805.D** Batch ID: **MS08S2265B** Analysis Date: **01/08/2014 11:53**

Sample ID: **MBLK MS08S2265B** Units : **mg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 11:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	0.205		0.2		102	70	130			
Surr: Toluene-d8	0.199		0.2		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.207		0.2		104	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14010815.D** Batch ID: **MS08S2265B** Analysis Date: **01/08/2014 16:05**

Sample ID: **GLCS MS08S2265B** Units : **mg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 16:05**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	16	2	16		100	63	149			
Surr: 1,2-Dichloroethane-d4	0.408		0.4		102	70	130			
Surr: Toluene-d8	0.334		0.4		83	70	130			
Surr: 4-Bromofluorobenzene	0.519		0.4		130	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14010816.D** Batch ID: **MS08S2265B** Analysis Date: **01/08/2014 16:30**

Sample ID: **14010727-10AGS** Units : **mg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 16:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17.7	2	16	0	111	36	164			
Surr: 1,2-Dichloroethane-d4	0.409		0.4		102	70	130			
Surr: Toluene-d8	0.329		0.4		82	70	130			
Surr: 4-Bromofluorobenzene	0.541		0.4		135	70	130			S55

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14010817.D** Batch ID: **MS08S2265B** Analysis Date: **01/08/2014 16:55**

Sample ID: **14010727-10AGSD** Units : **mg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 16:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	17	2	16	0	106	36	164	17.7	4.1(40)	
Surr: 1,2-Dichloroethane-d4	0.408		0.4		102	70	130			
Surr: Toluene-d8	0.325		0.4		81	70	130			
Surr: 4-Bromofluorobenzene	0.536		0.4		134	70	130			S55

Comments:

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Date: *14-Jan-14*

QC Summary Report

Work Order: 14010727

Method Blank Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **14010805.D** Batch ID: **MS08S2265A** Analysis Date: **01/08/2014 11:53**

Sample ID: **MBLK MS08S2265A** Units : **µg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 11:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND	20								
Chloromethane	ND	80								
Vinyl chloride	ND	20								
Chloroethane	ND	20								
Bromomethane	ND	80								
Trichlorofluoromethane	ND	20								
1,1-Dichloroethene	ND	20								
Dichloromethane	ND	80								
trans-1,2-Dichloroethene	ND	20								
Methyl tert-butyl ether (MTBE)	ND	20								
1,1-Dichloroethane	ND	20								
cis-1,2-Dichloroethene	ND	20								
Bromochloromethane	ND	20								
Chloroform	ND	20								
2,2-Dichloropropane	ND	20								
1,2-Dichloroethane	ND	20								
1,1,1-Trichloroethane	ND	20								
1,1-Dichloropropene	ND	20								
Carbon tetrachloride	ND	20								
Benzene	ND	20								
Dibromomethane	ND	20								
1,2-Dichloropropane	ND	20								
Trichloroethene	ND	20								
Bromodichloromethane	ND	20								
cis-1,3-Dichloropropene	ND	20								
trans-1,3-Dichloropropene	ND	20								
1,1,2-Trichloroethane	ND	20								
Toluene	ND	20								
1,3-Dichloropropane	ND	20								
Dibromochloromethane	ND	20								
1,2-Dibromoethane (EDB)	ND	80								
Tetrachloroethene	ND	20								
1,1,1,2-Tetrachloroethane	ND	20								
Chlorobenzene	ND	20								
Ethylbenzene	ND	20								
m,p-Xylene	ND	20								
Bromoform	ND	20								
Styrene	ND	20								
o-Xylene	ND	20								
1,1,2,2-Tetrachloroethane	ND	20								
1,2,3-Trichloropropane	ND	80								
Isopropylbenzene	ND	20								
Bromobenzene	ND	20								
n-Propylbenzene	ND	20								
4-Chlorotoluene	ND	20								
2-Chlorotoluene	ND	20								
1,3,5-Trimethylbenzene	ND	20								
tert-Butylbenzene	ND	20								
1,2,4-Trimethylbenzene	ND	20								
sec-Butylbenzene	ND	20								
1,3-Dichlorobenzene	ND	20								
1,4-Dichlorobenzene	ND	20								
4-Isopropyltoluene	ND	20								
1,2-Dichlorobenzene	ND	20								
n-Butylbenzene	ND	20								
1,2-Dibromo-3-chloropropane (DBCP)	ND	120								
1,2,4-Trichlorobenzene	ND	80								
Naphthalene	ND	80								
Hexachlorobutadiene	ND	80								
1,2,3-Trichlorobenzene	ND	80								
Surr: 1,2-Dichloroethane-d4	205		200		102	70	130			
Surr: Toluene-d8	199		200		99.7	70	130			
Surr: 4-Bromofluorobenzene	207		200		104	70	130			

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Date: *14-Jan-14*

QC Summary Report

Work Order: 14010727

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **14010812.D** Batch ID: **MS08S2265A** Analysis Date: **01/08/2014 14:49**

Sample ID: **LCS MS08S2265A** Units : **µg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 14:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	227	20	400		57	10	131			
Methyl tert-butyl ether (MTBE)	394	10	400		99	65	145			
Benzene	353	10	400		88	70	137			
Trichloroethene	326	20	400		81	70	149			
Toluene	309	10	400		77	70	139			
Chlorobenzene	300	20	400		75	70	137			
Ethylbenzene	333	10	400		83	70	137			
m,p-Xylene	312	10	400		78	70	145			
o-Xylene	311	10	400		78	70	145			
Surr: 1,2-Dichloroethane-d4	455		400		114	70	130			
Surr: Toluene-d8	333		400		83	70	130			
Surr: 4-Bromofluorobenzene	496		400		124	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **14010813.D** Batch ID: **MS08S2265A** Analysis Date: **01/08/2014 15:14**

Sample ID: **14010727-10AMS** Units : **µg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 15:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	257	20	400	0	64	10	131			
Methyl tert-butyl ether (MTBE)	407	10	400	0	102	45	155			
Benzene	382	10	400	0	95	52	151			
Trichloroethene	352	20	400	0	88	48	165			
Toluene	339	10	400	0	85	47	154			
Chlorobenzene	326	20	400	0	82	50	151			
Ethylbenzene	358	10	400	0	90	52	154			
m,p-Xylene	333	10	400	0	83	51	162			
o-Xylene	329	10	400	0	82	52	162			
Surr: 1,2-Dichloroethane-d4	456		400		114	70	130			
Surr: Toluene-d8	345		400		86	70	130			
Surr: 4-Bromofluorobenzene	477		400		119	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **14010814.D** Batch ID: **MS08S2265A** Analysis Date: **01/08/2014 15:40**

Sample ID: **14010727-10AMSD** Units : **µg/Kg** Run ID: **MSD_08_140108A** Prep Date: **01/08/2014 15:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	222	20	400	0	55	10	131	256.9	14.7(40)	
Methyl tert-butyl ether (MTBE)	367	10	400	0	92	45	155	407	10.4(32)	
Benzene	337	10	400	0	84	52	151	381.6	12.5(30)	
Trichloroethene	308	20	400	0	77	48	165	352.1	13.3(29)	
Toluene	303	10	400	0	76	47	154	339.5	11.4(28)	
Chlorobenzene	286	20	400	0	72	50	151	326.2	13.1(40)	
Ethylbenzene	314	10	400	0	79	52	154	358.5	13.1(37)	
m,p-Xylene	295	10	400	0	74	51	162	333	12.2(34)	
o-Xylene	288	10	400	0	72	52	162	329.3	13.3(40)	
Surr: 1,2-Dichloroethane-d4	429		400		107	70	130			
Surr: Toluene-d8	344		400		86	70	130			
Surr: 4-Bromofluorobenzene	511		400		128	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

RUSH!

Billing Information :

CHAIN-OF-CUSTODY RECORD

NV AMENDED

WorkOrder : MGA14010727

Report Due By : 5:00 PM On : 08-Jan-14

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

Client:
McGinley & Associates, Inc.
815 Maestro Drive

Reno, NV 89511

PO :

Report Attention	Phone Number	EMail Address
George Hagan	(775) 829-2245 x	ghagan@mcgin.com
Brett Bottenberg	(702) 260-4961 x	bbottenberg@mcgin.com
Tim Dory	(775) 829-2245 x	tdory@mcgin.com

EDD Required : **Yes**

Sampled by : George Hagan Jr.

Cooler Temp	Samples Received	Date Printed
4 °C	07-Jan-14	15-Jan-14

Client's COC # : 17665 Job : LVBRN021/Town of Gardnerville

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests: METALS_T CLP	PNA_SIM_S	TPH/E_S	TPH/P_S	VOC_S				Sample Remarks
MGA14010727-01A	LVBRN021-WO-SS-W.BOT@8.5FT	SO	01/07/14 09:00	1	0	1	TCLP_7		TPH/E_N	GAS-N					
MGA14010727-02A	LVBRN021-WO-SS-E.BOT@8.5FT	SO	01/07/14 09:09	1	0	1			TPH/E_N	GAS-N					
MGA14010727-03A	LVBRN021-WO-SS-E.BOT@11FT	SO	01/07/14 10:23	1	0	1	TCLP_7	SIM	TPH/E_N	GAS-N					
MGA14010727-04A	LVBRN021-HO-SS-E.BOT@11FT	SO	01/07/14 09:46	1	0	1			TPH/E_N						
MGA14010727-05A	LVBRN021-HO-SS-W.BOT@11FT	SO	01/07/14 09:48	1	0	1			TPH/E_N						
MGA14010727-06A	LVBRN021-HO-SS-CEN.BOT@15.5FT	SO	01/07/14 09:57	1	0	1			TPH/E_N						
MGA14010727-07A	LVBRN021-HO-SP1	SO	01/07/14 12:15	1	0	1	TCLP_7		TPH/E_N		8260/MTBE_N				
MGA14010727-08A	LVBRN021-HO-SP2	SO	01/07/14 12:17	1	0	1			TPH/E_N						
MGA14010727-09A	LVBRN021-WO-SP2	SO	01/07/14 12:20	1	0	1			TPH/E_N	GAS-N					
MGA14010727-10A	LVBRN021-WO-SP1	SO	01/07/14 12:26	1	0	1	TCLP_7		TPH/E_N	GAS-N	8260/MTBE_N				

Comments: 24 HR TAT for TPH & VOC. Samples brought in by client. Frozen ice. TCLP 7 on standard TAT, due 1/14/14. Amended 1/15/14 to add 8270 SIM to sample -03A, per phone call from Brett. 24hr TAT. Amendment Due: 1/16/14. SN :

	Signature	Print Name	Company	Date/Time
Logged in by:		Shelli Neri	Alpha Analytical, Inc.	1/15/14 1051

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

NV RUSH

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : MGA14010727

Report Due By : 5:00 PM On : 08-Jan-14

TCLP 7 due 1-14-14

Client:
McGinley & Associates, Inc.
815 Maestro Drive

Reno, NV 89511

Report Attention	Phone Number	EMail Address
George Hagan	(775) 829-2245 x	ghagan@mcgin.com
Brett Bottenberg	(702) 260-4961 x	bbottenberg@mcgin.com
Tim Dory	(775) 829-2245 x	tdory@mcgin.com

EDD Required : **Yes**

Sampled by : George Hagan Jr.

PO :

Client's COC # : 17665 Job : LVBRN021/Town of Gardnerville

Cooler Temp	Samples Received	Date Printed
4 °C	07-Jan-14	**07-Jan-14**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests METALS_TCLP	TPH/E_S	TPH/P_S	VOC_S					Sample Remarks
MGA14010727-01A	LVBRN021-WO-SS-W.BOT@8.5FT	SO	01/07/14 09:00	1	0	1	TCLP_7	TPH/E_N	GAS-N						
MGA14010727-02A	LVBRN021-WO-SS-E.BOT@8.5FT	SO	01/07/14 09:09	1	0	1		TPH/E_N	GAS-N						
MGA14010727-03A	LVBRN021-WO-SS-E.BOT@11FT	SO	01/07/14 10:23	1	0	1	TCLP_7	TPH/E_N	GAS-N						
MGA14010727-04A	LVBRN021-HO-SS-E.BOT@11FT	SO	01/07/14 09:46	1	0	1		TPH/E_N							
MGA14010727-05A	LVBRN021-HO-SS-W.BOT@11FT	SO	01/07/14 09:48	1	0	1		TPH/E_N							
MGA14010727-06A	LVBRN021-HO-SS-CEN.BOT@15.5FT	SO	01/07/14 09:57	1	0	1		TPH/E_N							
MGA14010727-07A	LVBRN021-HO-SP1	SO	01/07/14 12:15	1	0	1	TCLP_7	TPH/E_N		8260/MTBE_N					
MGA14010727-08A	LVBRN021-HO-SP2	SO	01/07/14 12:17	1	0	1		TPH/E_N							
MGA14010727-09A	LVBRN021-WO-SP2	SO	01/07/14 12:20	1	0	1		TPH/E_N	GAS-N						
MGA14010727-10A	LVBRN021-WO-SP1	SO	01/07/14 12:26	1	0	1	TCLP_7	TPH/E_N	GAS-N	8260/MTBE_N					

Comments: 24 HR TAT for TPH & VOC. Samples brought in by client. Frozen ice. TCLP 7 on standard TAT, due 1/14/14. :

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	**Alpha Analytical, Inc.**	1/7/14 1425

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company: PHONE MGA FOR A P.O.
Attn:
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 — Phone: 775-355-1044, Fax: 775-355-0406

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

17665

Page # 1 of 1

Consultant/ Client Info:
Company: MGA
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #: LVBRN021
Job Name: TOWN OF GARDENERVILLE
P.O. #:

Report Attention/Project Manager:
Name: G. HAGAN JR
Email Address: B, BOTTENBERG
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No — EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS (NV) OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH-E	TPH-P	8260	TCLP-7							Remarks
0900	JAN 07-14	SO	MGA14010727-01	LVBRN021-WO-SS-WBOT@8.5'	24HR	1-J		✓	X	X		X							TCLP-7 5-DAY TAT.
0909			02	" -WO-SS-E, BOT@8.5'					X	X		~~X~~	NO TCLP THIS SAMPLE GA						TPH-P+E
1023			03	" " -WO-SS-E, BOT@11'					X	X		X							24 HR TAT
~~0946~~				" " -WO-SS-E, BOT@8.5'														GA	
0946			04	" " -WO-SS-E, BOT@11'					X										8260 NEED
0948			05	" " -WO-SS-W, BOT@11'					X										24 HR TAT.
0957			06	" " -WO-SS-CEN, BOT@15.5'					X										
1215			07	" " -WO-SP1					X		X	X							
1217			08	" " -WO-SP2					X										
1220			09	" " -WO-SP2	SEE REMARKS				X	X									
1226			10	" " -WO-SP1					X	X	X	X							

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: George Hagan Jr

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
G. Hagan JR - MGA	1-7-14	1355	K Murray/AAI	1/7/14	1355

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil — ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX E

Bill of Lading for Soil Disposal

THIS SHIPPING ORDER must be legibly filled in, in ink, or indelible Pencil, or in Carbon, and initialed by the Agent.

Ship 's No. HCS-3

Carrier's No. 29372A

Carrier Branco SCAC Date 1/11/14

TO: Consignee Nevada Thermal Services, LLC	**FROM:** Shipper Town Of Gardnerville
Street 2600 East Mustang Road	Street 1407 HWY 395 North
Destination Agnice, NV. 89434 Zip	Origin Gardnerville, NV 89410 Zip
Route	Vehicle Number 140
	U.S. DOT Hazmat Reg. No.

Number and Type of Packages	HM	Description of Articles	Total Quantity (mass, volume or activity)	Weight (subject to correction)	Class or Rate
1	T/L	**Hydrocarbon Contaminated Soil**			
		NON-HAZARDOUS			
		Date Rec'd: 1/11/14			
				61600	
		Rec'd By: P.Hopp		30,760	
		NTS Representative			
				30,840	
		Site Address: 1395 US Hwy 395 North, Gardnerville, NV		15.42	Tons
		Generator: Town of Gardnerville			
		PO.# 13632			

Permit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations; the Property described above, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

The carrier certifies that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: _____
PER: _____ DATE: _____

CARRIER: Branco
PER: _____ DATE: 1/11/14

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

BLS-C4 994
(7/07)

2

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible pencil, or in Carbon, and retained by the Agent.

Shipper's No. BAR 2

Carrier's No. 29378A

Carrier: Bravo's SCAC: Date: 1-9-14

TO: Consignee: Nevada Thermal Services,LLC	**FROM:** Shipper: Town Of Gardnerville
Street: 2690 East Mustang Road	Street: 1407 HWY 395 North
Destination: Sparks, NV. 89434 Zip	Origin: Gardnerville, NV 89410 Zip
Route	Vehicle Number: 141
	U.S. DOT Hazmat Reg. No.

Number and Type of Packages	HM	Description of Articles	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 YD		Hydrocarbon Contaminated Soil			
		NON-HAZARDOUS			
		Date Rec'd: 1-9-14			
		Rec'd By: P.Hoop NTS Representative	44160		
			21000		
			23060		
		Site Address: 1395 US Hwy 395 North, Gardnerville, NV	1152		
		Generator: Town of Gardnerville			
		P.O.# 13032			

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES ☐ Prepaid ☐ Collect

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier are available to the shipper, on request; and all applicable state and federal regulations; the Property described above, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: PER: DATE:

CARRIER: PER: DATE: 1/9/14

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Meterial is in transportation including storage incidental to transportation (172.604).

30-BLS-C4 994
(REV. 7/07)

2

Agent must detach and retain this Shipping Order and must sign the Original Bill of La

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. HSS-1

Carrier's No. W8824

Carrier Branco SCAC Date 1/9/14

TO: Consignee Nevada Thermal Services, LLC	FROM: Shipper Town Of Gardnerville
Street 2530 East Mustang Road	Street 1407 HWY 395 North PO Box 2048
Destination Sparks, NV 89434 Zip	Origin Gardnerville, NV 89410 Zip
Route	Vehicle Number 140 U.S. DOT Hazmat Reg. No.

Number and Type of Packages	HM	Description of Articles	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 T/R		Hydrocarbon Contaminated Soil			
		NON-HAZARDOUS			
		Date Rec'd: 1-9-14 1 p.m.			
		Rec'd By: P Hoop NTS Representative	77960		
			30900		
			47060		
		Site Address: 1395 US Hwy 395 North, Gardnerville, NV	2.52		
		Generator: Town of Gardnerville			
		P.O.# 13933			

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations; the Property described above, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination. If on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. PER:

SHIPPER: PER: DATE:

CARRIER: Branco PER: Scott Hunter DATE: 1-9-14

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

30-BLS-C4 994
(REV. 7/07)

2

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

APPENDIX F

NDEP Spill Report

NDEP # 140109-02

Report Date: 1/9/2014 **Report Time:** 0943

Incident Date: 1/8/2014 **Incident Time:** 1600

Do You Want to Remain Anonymous? ☐

Complaint/Spill Report Form

State of Nevada

Telephone: (888) 331-6337

Fax: (775) 687-8335

Reporting Person: Brett Bottenberg

Reporting Agency: McGinley & Associates

Address: 6280 South Valley View Boulevard **Phone:** (702) 260-4961 **Ext:**

City: Las Vegas **State:** NV **Zip:** 89118 **Zip+4:**

Discharger/Owner/Operator of Facility: Town of Gardnerville

Address: 1407 Highway 395 North **DOT#:**

City: Gardnerville **State:** NV **Zip:** 89410 **Zip+4:**

Contact Person: Tom Dellaire **Phone:** (775) 782-7134 **Ext:**

APN#: **UST Facility ID / BWPC Permit #:**

Location of Complaint/Spill: 1395 Highway 395 North

Facility Address if different from discharger:

City: Gardnerville **State:** NV **County:** Douglas

Township: **Range:** **Section:** **Q,Q2:** **Mile Marker:**

Type of Material Discovered: TPH

Concentration/Analytical Data: 4100 DRO, 820 ORO

Quantity Found: Greater than 3 cubic yards **Container:** UST

Media Affected: Soil and groundwater **If UST, Confirmed Visually?** Yes

Cause of Complaint/Spill:

Historic releases from two onsite tanks, one a heating oil and the other a waste oil. Waste oil tank is a federally regulated UST.

Remedial Action Taken:

Tanks have been removed.

Oversight/Enforcement:	**Email Address:**
NDEP BCA LUST Todd Croft (Interim LUST Program Sta	tcroft@ndep.nv.gov
cc: County Douglas Code Enforcement Shane Pieren (775) 782	spieren@co.douglas.nv.us
cc: LEPC Douglas County Tod Carlini Fax: (775) 782-9043	tcarlini@co.douglas.nv.us
cc:	

Comments:

First concentration is for the heating oil tank; the second is for the waste oil.

Report Taken By: Jeffrey Erwin

ndep
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor
Leo M. Drozdoff, P.E., Director
Colleen Cripps, Ph.D., Administrator

January 16, 2014

Tom Dallaire
Town of Gardnerville
1407 Highway 395 North
Gardnerville, Nevada 89410

Subject: **Request For Release/Spill Information**

Facility: Eagle Gardnerville/1395 US Highway 395, Gardnerville, Nevada

Facility ID: 2-000007

Spill Report No. 140109-02

Dear Mr. Dallaire:

The Nevada Division of Environmental Protection (NDEP) received notification on January 9, 2014 of a Release/Spill (Release) of contaminants at the above described property. It was reported that the release was from to tanks onsite, one heating oil tank and one waste oil tank. The release was discovered during the removal of the heating oil and waste oil tanks. Because this Release appears to have resulted in contamination and exceeds limits or quantities established by Nevada Administrative Code (NAC) 445A.347 or 445A.3473, you are required to provide an evaluation of the release per NAC 459.996 and NAC 459.9972. This information will be used to ensure that sound decisions are collectively made regarding the Release. Please understand that the release of contaminants can be harmful to human health and the environment and that you may be required per NAC to perform cleanup activities related to the Release.

The NDEP considers a complete evaluation report to contain the information requested below. Please provide this information within 45 days from the date of this letter, no later than March 3, 2014. You are additionally requested to complete and submit Attachment 1 separately within 45 days of receipt of this letter but no later than March 3, 2014. Should you have trouble meeting these deadlines, please contact the undersigned to discuss the need for additional time, as the NDEP is interested in resolving incidents such as this as efficiently and amicably as possible.

1. Description of the Release of Hazardous or Regulated Substances
   (a) Type of material released, including any available documentation (e.g. Material Safety Data Sheets or test results)
   (b) Estimated quantity of material released and the estimation technique utilized
   (c) Date and time of Release or of the release discovery

(d) Cause of Release
(e) A description of measures taken to correct and prevent recurrence of this incident
(f) Potential for a hazard related to fire, vapor or explosion
(g) A description of any damage known to the operator to have been caused by the release

2. Description of Site Conditions and Surrounding Areas
   (a) Township, Range and Section
   (b) Rspill Location information:
      i. Latitude/Longitude in decimal degrees (NAD 83)
      ii. Estimated accuracy in feet
      iii. Location determination method used
   (c) Depth to groundwater and how estimated
   (d) Soil classification (e.g. ASTM D 2487-00 Standard Practice for Classification of Soil for Engineering Purposes) of impacted, underlying, and surrounding soils
   (e) Annual precipitation
   (f) Description and identification and location of any threatened, endangered, or sensitive plant or animal species in the area which may have been or has the potential to be impacted by the Release, if warranted. The Nevada Natural Heritage Program can be contacted at 775-684-2900 to determine locations of recorded threatened, endangered, or sensitive species
   (g) Names and correspondence address information for all property owners and facility owners and operators at the site of the Release
   (h) Names and correspondence address information for all adjacent property owners and location of their property in relation to Release location
   (i) Scaled drawing(s) depicting:
      i. Property, adjacent properties, and current land uses
      ii. Locations and description of underground utilities
      iii. Drainage features and structures
      iv. Roadways and right-of-ways
      v. Release surface area boundaries
      vi. Locations of structures or other impediments to subsurface investigation or cleanup
      vii. Municipal, domestic, and irrigation supply wells within 1 mile of Release location.

3. Sample Results
   (a) All available testing results (such as laboratory or field soil and/or groundwater sample analysis) including chain of custody sheets, description of sample collection and preservation methods, analytical test methods used, laboratory result sheets with analytical detection limits, and "confirmation" sample results
   (b) Scaled drawing depicting Release surface area boundaries, excavation boundaries, and location and depth of each soil/water sample.

4. For non-residential properties, if the specific release source (location and/or container) and timing of the release cannot be identified, then you must evaluate past chemical use on the property by submitting a Phase 1 Environmental Site Assessment conducted by a Certified Environmental Manager, or by other method(s) approved by the Division, conducted in accordance with accepted industry standards.

5. Description of investigation or cleanup activities completed, underway, and/or proposed
   (a) Names and contact information for contractors and consultants employed and scope of duties and responsibilities
   (b) A description of completed abatement, containment, and/or remediation activities conducted to date and disposition of any liquid wastes or contaminated soil (include bills of lading, disposal certificates or manifest documentation) including location of soil removal activities and quantity of soil removed and source of material used for backfill
   (c) Extent of Contamination (i.e. lateral and vertical dimensions and volume of impacted soil). If the full extent is not yet defined, then provide details and a schedule for future characterization activities.
   (d) Description of sample collection and preservation procedures, analytical test methods, and sample location and depth for all samples collected to date and proposed
   (e) Description of proposed additional characterization and/or remediation activities
   (f) Scaled drawing depicting (can be included on Drawing(s) associated with 2.(i) above):
      i. Surface area boundaries of Release incident
      ii. Locations of abatement and remediation activities
      iii. Future/proposed sampling locations.

You should make every effort to determine the source and location of the Release. Additionally, every effort should be made to isolate, contain and remove the source of the Release; and repair or replace equipment and revise operating, maintenance and inspection procedures necessary to prevent recurrence of this Release.

Community health and safety concerns require that you undertake rapid recovery and remediation efforts. You should make every effort to assess the site and conduct cleanup as quickly as possible. Assessment and cleanup may be conducted concurrently. Quick response minimizes contaminant migration and helps reduce cleanup costs. Please recognize that Petroleum Fund Coverage and related work scope and reimbursement concurrences are managed through separate correspondence if these are applicable to this Release.

NAC 459.9719 requires consulting services involving response, assessment, or cleanup of a hazardous substance release that are conducted for a fee must be performed under the direction and responsible control of a Nevada Certified Environmental Manager. Information on the NDEP Certification Program can be obtained by contacting Certification Program staff at 775-687-9368 or at the Certification Program website at http://ndep.nv.gov.bca/certhome.htm.

If the applicable storage tank is enrolled in the State of Nevada Petroleum Fund, you may be eligible for reimbursement of NDEP approved assessment and remediation expenses. If you have questions regarding Petroleum Fund enrollment, the coverage application process, or whether the release from your storage tank system may qualify for Petroleum Fund Staff at 775-687-9368 or visit the Petroleum Fund website at http://ndep.nv.gov/bca/fundhome.htm. You are encouraged to contact the Petroleum Fund Staff to discuss enrollment and coverage application details. Please note, however, that assessment and remediation activities shall not be delayed by applications, whether or not you qualify for reimbursement, or any other aspect of the Petroleum Fund process.

If you have any questions or need further assistance, please contact me at 775-687-9380 or xtarango-castorena@ndep.nv.gov.

Sincerely,

Xavier Tarango-Castorena

Attachment 1 – Release Data-Gathering Form

ec: Todd Croft, Supervisor UST/LUST Branch, NDEP Bureau
Brett Bottenberg, McGinley & Associates, bbottenberg@mcgin.com, 615 Maestro Drive, Reno, NV 89511
Steve Fischenich, NDEP, Petroleum Fund Claims Branch – Carson City
Valerie King, Petroleum Fund Supervisor, NDEP – Carson City

Attachment 1

Release Data-Gathering Form

(for use in documenting "confirmed" releases)

UST/LUST Form 2011 EA
Rev.0 March 08, 2012

The NDEP is requesting this information in accordance with the 2005 Federal Energy Policy Act. It will be used to help identify where releases occur (source information) and why releases occur (cause information) throughout the Underground Storage Tank (UST) Program. This information may be used to develop new equipment or revised procedures to reduce the number and severity of petroleum releases from registered UST systems. Additionally, the State of Nevada Petroleum Fund Program (Fund) may use this information in conjunction with other information to evaluate eligibility for Fund coverage. You are requested to provide accurate information in a timely manner. You may also wish to use this information during development and submittal of other requested or required documents (e.g., response to the attached cover letter; preparation of an Application for Fund Coverage). **Please use a separate form to document each "confirmed" release.**

General Information

Facility ID No. _____ UST Owner: _____
Facility Name: _____ UST Operator: _____
Facility Address: _____
_____

Contact Information: _____ (____)_____ _____
(Name) (Phone No) (e-mail Address)

Release Information

Date release was suspected _____ NDEP Spill Report No. _____
Reason for suspecting a release _____
_____
Date release was confirmed _____ NDEP Spill Report No. _____
How release was confirmed _____
_____

Source Information – Where did the release come from?

- ☐ Tanks — Tank No. _____ — Product/substance released _____
- ☐ Piping — Area of release _____ — Product/substance released _____
- ☐ Dispenser — Dispenser No. _____ — Dispenser Location _____
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other (specify) _____
- ☐ Unknown (please describe) _____

Cause Information – Why did the release occur?

- ☐ Spill
- ☐ Overfill
- ☐ Physical or Mechanical Damage
- ☐ Corrosion
- ☐ Install Problem
- ☐ Other (specify) _____
  _____
- ☐ Unknown (please describe) _____

Please complete this form and return it to:

Nevada Division of Environmental Protection
Bureau of Corrective Actions
Attn: Xavier Tarango-Castorena
901 S. Carson Street, Ste. 4001
Carson City, NV 89701

Please also provide a copy of this form to the SNHD/WCHD/NDEP (whichever applies) as an appendix to your response to the accompanying r/spill letter.

Owner/operator _____ _____
(Signature) (Date)

I hereby certify that the information provided in this document is complete and accurate as of the date of signing.