Nevada
Environmental
Restoration
Project

DOE/NV--969-REV 1

Closure Report for Corrective
Action Unit 167: Contaminated
Materials and Trash Pits,
Nevada Test Site, Nevada

Controlled Copy No.: _____

Revision: 1

April 2005

Environmental Restoration
Division

U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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**CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 167:
CONTAMINATED MATERIALS AND TRASH PITS,
NEVADA TEST SITE, NEVADA**

**U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

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**CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 167:
CONTAMINATED MATERIALS AND TRASH PITS,
NEVADA TEST SITE, NEVADA**

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BN	Bechtel Nevada
CAS	Corrective Action Site(s)
CAU	Corrective Action Unit(s)
DRO	Diesel-range organics
DU	Depleted Uranium-238
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
FFACO	Federal Facility Agreement and Consent Order
mg/kg	milligram(s) per kilogram
NAC	Nevada Administrative Code
NCCT	National Center for Combating Terrorism
ND	Not Detected
NDEP	Nevada Division of Environmental Protection
NNSA/NSO	U.S. Department of Energy National Nuclear Security Administration Nevada Site Office
NS	Not Sampled
PCB	polychlorinated biphenyl(s)
pCi/g	picoCuries per gram
PRG	Preliminary Remediation Goal(s)
RCRA	Resource Conservation and Recovery Act
RMA	Radiological Materials Area
SDG	Sample Delivery Group

ACRONYMS AND ABBREVIATIONS (continued)

SVOC	Semivolatile Organic Compound(s)
TPH	Total Petroleum Hydrocarbons
USGS	United States Geological Survey
VOC	Volatile Organic Compound(s)
WW	Water Well
yd ³	cubic yard(s)

EXECUTIVE SUMMARY

Corrective Action Unit (CAU) 167 consists of two Corrective Action Sites (CASs) located in Areas 5 and 19 of the Nevada Test Site. The closure activities performed at the two CASs are listed below.

CAS 05-99-05, Combat Tank; Radioactive Material

- Transfer of ownership of the tank to the National Center for Combating Terrorism (NCCT), part of the U. S. Department of Energy, National Nuclear Security Administration. The tank was relocated from the CAS to a controlled area in Area 1 of the NTS and is currently used as a training aid by the NCCT.
- Performing a radiological survey of the area resulting in the deposing of the area as a RMA.
- Removal and disposal of surface debris including fence posts and a wooden pallet.
- Collecting and analyzing soil waste classification samples from the site.
- Removal and disposal of approximately 40 cubic yards of petroleum hydrocarbon impacted soil from beneath the former location of the tank. The extent of the excavation was determined by field screening of hydrocarbons.
- Collecting and analyzing soil verification samples from the site excavation.
- Backfilling the excavation with clean fill and compacting by wheel rolling with heavy equipment.
- Performing an "A through K" risk assessment to determine the risk to health and the environment posed by leaving low concentrations of hydrocarbons in soil in the shallow subsurface.

CAS 19-19-02, Trash Pit:

Documenting that the waste originally identified was no longer present on site. No further closure activities were necessary at this CAS.

Two CASs that were originally part of CAU 167 were transferred out of CAU 167 with approval by the Nevada Division of Environmental Protection. CAS 18-99-06 (Core in Boxes) was evaluated and submitted for classification as an historical site and transferred into CAU 5000, Archived Corrective Action Sites. CAS 18-99-08 (Core in Boxes) was transferred into CAU 286 for closure at a future date.

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1.0 INTRODUCTION

This report documents that the closure activities conducted for Corrective Action Unit (CAU) 167: Contaminated Materials and Trash Pits, met the approved closure standards. CAU 167 is listed in Appendix III of the *Federal Facility Agreement and Consent Order* (FFACO, 1996) and consists of two Corrective Action Sites (CAS) located in Areas 5 and 19 of the Nevada Test Site (NTS) (Figure 1):

- CAS 05-99-05: Combat Tank; Radioactive Material
- CAS 19-19-02: Trash Pit

Two CASs that were originally part of CAU 167 were transferred out of CAU 167 with approval by the Nevada Division of Environmental Protection (NDEP). CAS 18-99-06 (Core in Boxes) was evaluated and submitted for classification as an historical site and transferred into CAU 5000, Archived Corrective Action Sites. CAS 18-99-08 (Core in Boxes) was transferred into CAU 286 for closure at a future date.

Closure activities at the two remaining CASs consisted of documenting current site conditions, identifying and removing debris and contaminated soil, classifying and disposing of the generated waste, collecting and analyzing soil verification samples, verifying that each site was clean of debris by visual inspection, and deposing a radiologically controlled area.

Copies of analytical results are included in Appendix A. Copies of the "Sectored Housekeeping Site Closure Verification Forms" for CAS 05-99-05 and 19-19-02 are included in Appendix B. A copy of the "National Environmental Policy Act Evaluation Checklist" for CAU 167 is included in Appendix C, and a complete Document Review Sheet addressing comments received on Revision 0 of this report is included in Appendix D.

FIGURE 1
CAU 167 SITE LOCATION MAP

2.0 CLOSURE ACTIVITIES

This section details the specific closure activities completed for CAU 167: Contaminated Materials and Trash Pits.

2.1 DESCRIPTION OF CLOSURE ACTIVITIES

2.1.1 Preplanning and Site Preparation

Planning documents prepared prior to the beginning of closure activities include the following:

- Sectored Clean-up Work Plan For Housekeeping Category Waste Sites (National Nuclear Security Administration Nevada Site Office [NNSA/NSO], 2003b).
- Generic Field Management Plan for Housekeeping Category Waste Sites (NNSA/NSO, 2003a).
- Site-Specific Health and Safety Plan for Corrective Action Units 167, 210, 286, 390, and 395 Housekeeping Sites, Nevada Test Site, Nevada (Bechtel Nevada [BN], 2003).
- BN Solid Waste Operations (SWO) Work Packages.
- NNSA/NSO Real Estate/Operation Permit.

2.2 WASTE CLASSIFICATION ACTIVITIES

Neither of the CAU 167 CASs was previously sampled for waste classification, and process knowledge was insufficient to classify the potential waste at each site. During site visits, one site was found to have a potential waste stream requiring waste classification. Therefore at CAS 05-99-05, soil samples were collected and analyzed to classify waste at the site and determine the appropriate waste disposal pathway. The samples were collected with clean disposable plastic scoops, placed in labeled sample containers, and secured with custody seals. The sample containers were placed on ice in a cooler, transported under chain of custody to the BN Environmental Technical Services group in Mercury, Nevada, and shipped to an off-site laboratory for analysis. An additional six soil samples were collected to characterize the soil under the tank after the tank was physically transferred to Area 1 of the NTS. Table 1 summarizes the results of laboratory analyses performed for the waste characterization samples. Appendix A contains the analytical reports for the waste characterization samples.

2.2.1 CAS 05-99-05: Combat Tank; Radioactive Material Waste Classification

This site consisted of an M-47 combat tank located within a posted Radiological Materials Area (RMA). The combat tank was used as a target for armor-piercing ammunition that contained depleted uranium-238 (DU).

During a 2003 site visit, two small areas of soil staining were noted at the rear of the tank. The stains appeared to be oil that had leaked from the gearboxes at the rear of the tank. There was no evidence of recent leakage during any of the site visits. Six soil waste classification samples were collected from five locations around the tank to determine if the soil in the vicinity of the

Table 1. Summary of Analytical Results for Waste Classification Samples

SAMPLE IDENTIFICATION	Volatile Organic Compounds^a (mg/kg)	Semivolatile Organic Compounds^a (mg/kg)	Total RCRA Metals^a (mg/kg)	Polychlorinated Biphenyls^a (µg/kg)	Gamma Emitters^a (pCi/g)	Total Petroleum Hydrocarbons^a (mg/kg)
059905 L REAR	ND	ND	<PRGs	ND	U-238 0.913	80
059905 LEFT ^c	ND	ND	<PRGs	ND	U-238 18.0	150
059905 FRONT	ND	ND	<PRGs	ND	U-238 3.76	58
059905 RIGHT	ND	ND	<PRGs	ND	U-238 5.52	<20
059905 R REAR	ND	ND	<PRGs	ND	U-238 0.776	83
DUP A (Duplicate of 059905 L REAR)	ND	ND	<PRGs	ND	U-238 1.42	<20
059905V (Verification sample collected at location of 059905 LEFT)	NS	NS	NS	NS	NS	<20
059905V1	NS	NS	NS	490	NS	2,350
059905V2	NS	NS	NS	150	NS	3,730
059905V3	NS	NS	NS	860	NS	10,200
059905V4	NS	NS	NS	390	NS	32,000
059905V5	NS	NS	NS	46	NS	26,000
059905V6	NS	NS	NS	55	NS	12,900
DUP C (Duplicate of 059905V2)	NS	NS	NS	ND ^d	NS	880

Results reported in bold indicate concentration above action levels.

^a Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), total Resource Conservation and Recovery Act (RCRA) Metals, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH), Gamma, and Gross Alpha/Beta samples analyzed by U.S. Environmental Protection Agency (EPA) SW-846 Method 8260, 8270, 6010 and 7470, 8082, 8015 modified, 901.1 and 906.0 respectively (EPA, 1996). See analytical reports in Appendix A for laboratory detection limits.

^b <PRGs = Analytical results indicated that the levels of contaminants were less than the EPA Region IX Preliminary Remediation Goals (PRGs) for industrial soils (EPA, 2002).

^c High organic content noted in sample.

^d Laboratory reported interference in analysis.

Definitions:

mg/kg = milligrams(s) per kilogram

µg/kg = microgram(s) per kilogram

ND = Not Detected at laboratory reporting limit or less than laboratory Minimum Detectable Activity. See Appendix A for limits.

NS = Not Sampled

pCi/g = picoCuries per gram

tank was impacted with contaminants of concern. Samples were collected from the stains at the rear of the tank and from the soil near the other three sides of the vehicle (Figure 2). In the process of sampling, the stained soil areas at the rear of the tank were completely removed. Five of the samples (including one duplicate) were collected on November 7, 2003, at a depth of approximately 2-3 inches below ground surface (bgs). The samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), total Resource Conservation and Recovery Act (RCRA) metals, total petroleum (gasoline, diesel, and motor oil range) hydrocarbons (TPH), polychlorinated biphenyls (PCBs), and gamma emitters. Analytical results for the five samples were below action levels for industrial soils for VOCs, SVOC, total RCRA metals, PCBs (U.S. Environmental Protection Agency [EPA], 2002), and for gamma emitters (NDEP, 2004) (Table 1). Four of the five samples had TPH concentration less than the State of Nevada action level of 100 milligrams per kilogram (mg/kg) (Nevada Administrative Code, 2003) (Table 1).

Sample "059905 LEFT," collected from the left (south) side of the tank (not one of the stained areas), had a TPH concentration of 150 mg/kg. An additional sample, 059905V, was collected from the same location on January 9, 2004. This sample was collected from the bottom of the original sample site at a depth of 4-5 inches bgs, and analyzed for TPH only. TPH results for Sample 059905V indicated TPH concentrations less than the Nevada action level of 100 mg/kg (Table 1). Based on these results, it was determined that the remaining soil outside the footprint of the tank was not impacted with TPH above action levels at the surface. Additional visual observations and sampling under the tank footprint were performed after the tank was removed from the site.

In addition, analytical results for gamma emitters indicated DU concentration slightly greater than NTS background levels, but below the revised preliminary action level for U-238 of 63 picoCuries per gram (pCi/g) (NDEP, 2004). The tank was impacted with DU and the site was originally a posted RMA. The analytical data summaries for the soil samples are included in Appendix A and summarized in Table 1.

A radiological survey of the tank was performed and it was determined that the tank did not have any removable radiological contamination on the exterior, but did have fixed contamination present. Because the tank was used as a target, the interior of the tank is expected to be contaminated as well. However, all of the access hatches were locked and any punctures were secured with tape prior to moving the tank.

Ownership of the combat tank was transferred to the National Center for Combating Terrorism (NCCT) group and the tank was relocated to the NCCT training area at the T-1 site in Area 1 of the NTS on September 24, 2004. The tank will be used as training aid by the NCCT, and is therefore, no longer considered a waste.

After the tank was moved, the area beneath the former location of the tank was visually inspected for staining, and field screened for TPH and radiological contaminants. Based on the visual inspection and field screening, a total of seven additional soil waste classification samples (059905V1 - V6, DUP C) were collected on October 6, 2004 from the area formerly under the tank (Figure 2). The soil samples were analyzed for TPH and PCBs based on previous sampling

results and process knowledge of potential hydrocarbon releases from the tank. The analytical data results for the soil samples are included in Appendix A and summarized in Table 1. The analytical results indicated that concentrations of oil and diesel range TPH were above the Nevada action level of 100 mg/kg at all six sample locations. Based on these results, additional closure activities were required to be close this site. The analytical data summaries for the soil samples are included in Appendix A and summarized in Table 1.

2.3 SITE CLOSURE ACTIVITIES

Appendix B includes the "Housekeeping Site Closure Verification Forms," including site information and before and after site photographs.

2.3.1 CAS 05-99-05: Combat Tank; Radioactive Material

Closure activities at CAS 05-99-05 included the following:

- Transfer of ownership of the tank to the National Center for Combating Terrorism (NCCT), part of the U. S. Department of Energy, National Nuclear Security Administration. The tank was relocated from the CAS to a controlled area in Area 1 of the NTS and is currently used as a training aid by the NCCT.
- Performing a radiological survey of the area resulting in the deposing of the area as a RMA.
- Removal and disposal of surface debris including fence posts and a wooden pallet.
- Collecting and analyzing soil waste classification samples from the site.
- Removal and disposal of approximately 40 yd³ of TPH impacted soil from beneath the former location of the tank. The extent of the excavation was determined by TPH field screening.
- Collecting and analyzing soil verification samples from the site excavation.
- Backfilling the excavation with clean fill and compacting by wheel rolling with heavy equipment

A final radiological survey of the entire RMA was conducted and the site was deposited on October 30, 2004.

On December 7, 2004, after the tank was removed from the site, TPH-impacted soil from the area beneath the tank was excavated and removed from the site on. The initial excavation covered the entire area beneath the tank to a depth of 27 inches bgs (Figure 3). Soil was collected from six locations within the former footprint of the tank treads, and field screened for TPH using Petroflag[®] field screening kit. Screening results indicated that TPH concentrations were below 75 mg/kg at four locations on the south and in the northwest and northeast corners of the excavation. Based on the screening results, four soil verification samples (059905V8 – V11) were collected and submitted for laboratory analysis. At two locations near the center of the tank screening showed TPH concentrations greater than 75 mg/kg. For this reason, the center of the initial excavation was over-excavated to a depth of 11 ft bgs (Figure 3). A soil sample was collected at the base of the over excavated area and field screened for TPH. Field screening showed TPH concentrations less than 75 mg/kg, hence, two soil verification samples (059905V12, DUP D) were collected and submitted for laboratory analysis. The excavation was backfilled with clean fill material and compacted by wheel rolling with heavy equipment.

Laboratory results for four of the five verification samples showed that no TPH remained on site at concentrations above the Nevada action level of 100 mg/kg (See Section 4.0). Verification sample 059905V9 collected from the center of the north side of the initial 27 inch deep excavation had a result of 700 mg/kg. This was unexpected given the TPH field screening result of 60 mg/kg from the sample location.

Because of this result the site can not be considered clean of TPH contamination. To assess the risk to health and the environment due to leaving low concentrations of TPH on site in the shallow subsurface, an "A through K" risk assessment per the Nevada Administrative Code (NAC, 2002) was made. Based on the "A through K" risk assessment the TPH remaining on site poses little or no risk to health and the environment (See Section 4.0). For this reason no further action was taken to close this site.

2.3.2 CAS 19-19-02: Trash Pit

The drums originally identified in Appendix II of the FFACO (FFACO, 1996) were not present during a 2003 site visit. The drums were originally located in a trash pit near the U-19ab ground zero from the 1985 "Towanda" test (DOE/NV, 2000). Additional wood and scrap metal debris is located at the site but could not be removed because the 1985 test did not result in a subsidence feature (crater) at the ground surface. As the area has the potential to subside/collapse, the area is inaccessible to workers. Site conditions were documented with photographs (Appendix B) and field notes. No further action is required at this site.

FIGURE 3

**CAS 05-99-05 - COMBAT TANK; RADIOACTIVE MATERIAL
 VERIFICATION SOIL SAMPLE LOCATIONS**

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3.0 WASTE DISPOSITION

Waste was generated during the closure of CAU 167 only at CAS 05-99-05. The site originally consisted of a combat tank and a small amount of surface debris. The combat tank was relocated to Area 1 on September 24, 2004, for use as a training aid and it is no longer considered a waste. The RMA was radiologically surveyed and deposited on October 30, 2004. This activity generated a limited amount of waste including a wood pallet, scrap metal, and the fence posts from the RMA. The waste was radiologically screened, released, and disposed of in the Area 9 U10c Landfill.

After the tank was moved off site, it was observed that the soil beneath the tank location was stained and had a hydrocarbon odor. Field screening and waste characterization samples confirmed the soil was contaminated with TPH diesel-range organics (DRO) at concentrations greater than the Nevada action level of 100 mg/kg. Therefore, approximately 40 yd³ of TPH-impacted soil was excavated from the site and disposed of in the Area 6 Hydrocarbon Landfill.

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4.0 CLOSURE VERIFICATION

Closure activities at CAS 05-99-05 included collecting soil verification samples. Copies of the analytical results for the verification samples are included in Appendix A (See results for Sample Delivery Group V2376). Copies of the "Sectored Housekeeping Site Closure Verification Forms" for the two CASs 05-99-05 and 19-19-02 are included in Appendix B.

CAS 05-99-05: Combat Tank; Radioactive Material

Site closure activities included removing approximately 40 yd³ of TPH-impacted soil from the area under the former location of the tank. A total of five soil verification samples were collected from the excavation and submitted for TPH-DRO analysis (Figure 3). Results for the soil samples verify that the majority of the TPH-impacted soil was successfully removed from the site (Table 2). One soil sample exceeded the Nevada action level for TPH. In addition, housekeeping waste such as scrap metal, wood pallets, and fence posts were removed and disposed of in the Area 9 U10c Landfill.

TABLE 2. SUMMARY OF ANALYTICAL RESULTS FOR VERIFICATION SAMPLES

SAMPLE IDENTIFICATION	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons^a (mg/kg)
059905V8	December 7, 2004	2.08	85.0
059905V9	December 7, 2004	2.25	700.0
059905V10	December 7, 2004	0.91	23.0
059905V11	December 7, 2004	2.0	19.0
059905V12	December 7, 2004	11.0	16.0
DUP D (duplicate of 059905V12)	December 7, 2004	11.0	14.0

Results reported in bold indicate concentration above action levels.

^a Total Petroleum Hydrocarbons (TPH) samples analyzed by U.S. Environmental Protection Agency (EPA) SW-846 Method 8015 modified, See analytical reports in Appendix A for laboratory detection limits.

Definitions:

mg/kg = milligrams(s) per kilogram

Because of the TPH results for sample 059905V9, the site was evaluated for closure by taking No Further Action using the Nevada "a through k" guidelines pursuant to *Nevada Administrative Code* (NAC) 445A.227 (NAC, 2002). The evaluation follows below.

a. Depth to Groundwater

The depth to groundwater in the Frenchman Lake area ranges from 680 to 720 ft bgs. The majority of groundwater flowing beneath the Frenchman Flat basin passes through the lower carbonate rock aquifer. This aquifer is the only subsurface pathway by which groundwater leaves the basin. Flow of water into, through, and out of the lower carbonate-rock aquifer

beneath these basins is controlled in part by the occurrence of low-permeability rocks both above and laterally adjacent to the aquifer, lateral continuity with upgradient and downgradient sections of the lower carbonate-rock aquifer, the occurrence of faults, and secondary rock openings both within rocks of and adjacent to the lower carbonate-rock aquifer (fractures, joints, and dissolution openings).

b. Distance to Irrigation or Drinking Water Wells

Water Wells (WW) 5a, 5b, and 5c are located near CAS 05-99-05. The aquifer of WW-5a consists of consolidated deposits, while the aquifers of WW-5b and WW-5c contain valley fill deposits (USGS, 2002). WW-5a, located approximately 2.5 miles southwest of the CAS, is currently an active well used for drinking water. This well was drilled to a depth of 877 ft bgs with the approximate water level being 710 ft bgs (USGS, 2002). WW-5b is west of the CAS by approximately 1.4 miles and it set at a depth of 900 ft bgs. The water level of WW-5b resides at approximately 680 ft bgs. The third well, WW-5c, is an inactive well that was drilled to a depth of 1,200 ft bgs. The well is located approximately 1.5 miles southwest of the CAS, where the approximate water level is 720 ft bgs. (USGS, 2002)

c. Type of Soil

Corrective Action Site 05-99-05 lies near the center of Frenchman Flat, a hydrologically closed basin. The surface material in the basin is alluvium that consists mostly of silty to gravelly sand, with finer grained deposits (silt and clay) on the central playa. Recent drilling (NNSA/NSO, 2005) has indicated that in the center of the basin the alluvial materials are approximately 3,670 ft thick. The alluvium is underlain by approximately 4,000 ft of volcanic rocks, which in turn overlie the Paleozoic carbonate rocks that make up the regional carbonate aquifer.

d. Annual Precipitation

Frenchman Lake is located in one of the more arid regions of the country. While some ponding occurs on the dry lakebed during the rare heavy rain, according to data obtained from Weather Station 05, the average annual precipitation for Area 5 is 4-6 inches per year with the highest precipitation being 9.67 inches in 1998. This station has been monitored since 1963.

e. Type of Regulated Substance Released

Based on technical and historical knowledge on the combat tank, it appears that the left fuel tank was punctured by munitions when the tank was used as a target in the Frenchman Lake location. While the right fuel tank was determined to be intact, it appears that the left fuel tank was punctured and a maximum of 133 gallons (maximum capacity) of diesel fuel may have been released to the ground directly below the vehicle. Based on the results of the field screening and verification samples a majority of the TPH-impacted soil was removed by excavation in December 2004.

f. Extent of Contamination

Contamination from the diesel fuel release is estimated to have extended approximately 5 ft horizontally to a maximum depth of 11 ft bgs vertically. The majority of this soil was excavated in December 2004.

g. Present and Potential Land Use

The area is currently used as a storage area for discarded equipment. No facilities are operating in the immediate vicinity at present. The nearest facility is the Non-Proliferation Test and Evaluation Complex (formerly known as the Hazardous Material Spill Test Center) located approximately 2 miles to the west. Due to the proximity of the site to former nuclear weapons atmospheric testing sites, no development is likely.

h. Preferred Routes of Migration (and Exposure Pathways of Concern)

The only likely TPH-migration scenario at this location is through infiltrating precipitation. Based on the limited precipitation, the excavation of the majority of the impacted soil, and the removal of the source itself (the combat tank) from the site, migration of TPH is expected to be negligible. A utility survey indicated that no buried utilities are located in the area that may serve as pathways.

i. Location of Structures or Impediments

No below-grade structures are located in the vicinity of the site. A utility survey also indicated that no buried utilities are located in the area that may serve as a pathway.

j. Potential for a Hazard Related to Fire, Vapor, or Explosion

There is no potential for these hazards.

k. Other factors Specific to the Site

As discussed previously, the majority of the TPH-impacted soil was removed in December 2004 through excavation. Verification sampling indicated that the highest TPH concentration detected in the samples was 700 mg/kg. In addition, the original source of the release (the combat tank itself) has been removed from the site.

Based on the evaluation of the “a through k” criteria as presented above and the previously described BMP activities, no additional closure activities are warranted at this site. CAS 05-99-05 was closed by taking No Further Action.

CAS 19-19-02: Trash Pits

Verification of site closure consisted of performing a visual inspection of the site and documenting the current site conditions. The waste drums originally identified were no longer present. Debris at the site is within a potential crater area, preventing workers and equipment from removing it.

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5.0 SUMMARY AND RECOMMENDATIONS

5.1 SUMMARY

The following closure activities were completed at the two CASs in CAU 167:

CAS 05-99-05, Combat Tank; Radioactive Material

- Transferred ownership of the tank to the NCCT, and relocated the tank from the CAS to a controlled area in Area 1 of the NTS.
- Performed a radiological survey of the area and deposited the area as a RMA.
- Removed and disposed of surface debris including fence posts and a wooden pallet.
- Collected and analyzed soil waste classification samples from the site.
- Removed and disposed of approximately 40 yd³ of petroleum hydrocarbon-impacted soil from beneath the former location of the tank.
- Collected and analyzed soil verification samples from the site excavation.
- Backfilled the excavation with clean fill and compacted the fill by wheel rolling with heavy equipment.
- Performed an "A through K" risk assessment to determine the risk to health and the environment posed by leaving low concentrations of hydrocarbons in soil in the shallow subsurface.

CAS 19-19-02, Trash Pit: Verified that waste originally identified was no longer present on site; documented current site conditions.

5.2 RECOMMENDATIONS

Because closure activities for CAU 167 have been completed following the NDEP-approved *Sectorized Clean-up Work Plan for Housekeeping Category Waste Sites* (NNSA/NSO, 2003) as documented in this report, NNSA/NSO requests the following:

1. A "Notice of Completion" be provided by the NDEP to the NNSA/NSO for the closure of CAU 167.
2. The transfer of CAU 167 from Appendix III to Appendix IV of the FFACO *Closed Corrective Action Units* (FFACO, 1996).

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6.0 REFERENCES

BN, see Bechtel Nevada.

Bechtel Nevada. 2003. Site-Specific Health and Safety Plan for Corrective Action Units 167, 210, 286, 390, & 396 Housekeeping Sites, Nevada Test Site, Nevada, Rev. 1, Las Vegas, NV.

EPA, see U.S. Environmental Protection Agency.

FFACO, see Federal Facility Agreement and Consent Order.

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NAC, see Nevada Administrative Code.

NDEP, see Nevada Division of Environmental Protection.

NNSA/NSO, see U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office.

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U.S. Department of Energy, National Nuclear Security Administration, Nevada Site Office. 2003b. Sectored Clean-up Work Plan for Housekeeping Category Waste Sites, DOE/NV--579-REV-3. Las Vegas, NV.

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APPENDIX A

SAMPLE ANALYTICAL RESULTS

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APPENDIX A. SAMPLE ANALYTICAL RESULTS BY SAMPLE DELIVERY GROUP

Analytical results for the samples collected at the indicated Corrective Action Site (CAS) for Corrective Action Unit 167 are presented in this Appendix. The analytical results are grouped by Sample Delivery Group(s), which are arranged in numerical order in this Appendix. Analytical results for the specific CAS can be found by consulting the indicated Sample Delivery Groups.

<u>CAS</u>	<u>Sample Delivery Groups</u>	<u>Analysis</u>
05-99-05	V2126	TPH, RCRA Metals, VOCs, SVOCs, PCBs
	V2127	Gamma emitters
	V2162	TPH
	V2332	TPH, PCBs
	V2376	TPH

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SAMPLE DELIVERY GROUP

V2126

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ANALYTICAL LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 2

PROJECT/CLIENT INFORMATION

Project: CAU 167 BN Org #: B502

Charge Number: 5B03MH10

Project Manager: Jeff Smith

Phone: 702-295-7775 Fax: 702-295-7761 M/S: NTS306

REPORT & TURNAROUND INFORMATION

Send Report to: Reed Poderis

Phone: 702-295-0847 Fax: 702-295-7761 M/S: NTS306

Turnaround: ☒ Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH) ☐ Rush Preliminary by: ☐ 1 ☐ 2 ☐ 7 ☐ 14 ☐ 28 (Radiological Env)

SAMPLE INFORMATION

Sampling Site: CAU 167

The samples submitted contain (check):

☐ Hazardous (list) -

☐ Radioactive (list) -

☒ Unknown contamination.

If known, identify contaminants.

This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.

SAMPLE MANAGEMENT INFORMATION

SDG: (IH) V2126 (Non-Rad Env) (Rad Env)

Samples submitted are associated with a signed Project SOW ☒ Yes ☐ No

Analyses entered here agree with the SOW ☒ Yes ☐ No ☐ N/A

If not, identify the variation:

Subcontract Lab(s) used for this work: NEL

Pay Item, Analysis, Method

10.19	9.22	7.2	6.10	8.1	1.28	
TPH	RCRA	SVOC	VOC	PCBs		
Full	Metals	8270	8260	8082		
Scan	6010					
8015						
Custody Seal		Seal intact?		None		Temp. 10's
				Condition when received		(good)

ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	QC			Pres - Analysis eg. HCL - VOCs
					Est. Vol	MD	MSD	
059905 L REAR	11/7/2003	10:30	Soil	W1676				ice
059905 LEFT	11/7/2003	10:30	Soil	W1676				ice
059905 FRONT	11/7/2003	10:40	Soil	W1676				ice
059905 RIGHT	11/7/2003	10:45	Soil	W1676				ice
DUP A	11/7/2003	-	Soil	W1676				ice
059905 R REAR	11/7/2003	10:50	Soil	W1676				ice
059905 TBA	11/7/2003	-	Liquid	2	40 ml			HCL
059905 TBS	11/7/2003	-	Liquid	1	40 ml			HCL
			Test done					

CUSTODY TRANSFER

Sampled/Relinquished (print)

Reed J. Poderis

Signature

Date/Time

Received by (print)

Locked ER Refrigerator

Signature

Date/Time

11/7/03 1600

11/7/03 1600

11/7/03 1600

11/7/03 1600

11/7/03 1600

01. 02. 03. 04. 05. 06. 07.

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NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-001

Client Sample ID: 059905 L. Rear
Collection Date: 11/7/03 10:30:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH SW8015M Analyst: FAS-L						
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	80	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	80	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	73.1	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS SW8082 Analyst: JRW-L						
Aroclor 1016	ND	20		µg/Kg	1	11/20/03
Aroclor 1221	ND	20		µg/Kg	1	11/20/03
Aroclor 1232	ND	20		µg/Kg	1	11/20/03
Aroclor 1242	ND	20		µg/Kg	1	11/20/03
Aroclor 1248	ND	20		µg/Kg	1	11/20/03
Aroclor 1254	ND	20		µg/Kg	1	11/20/03
Aroclor 1260	ND	20		µg/Kg	1	11/20/03
Surr: Tetrachloro-m-xylene	104	36.2-139		%REC	1	11/20/03
Surr: Decachlorobiphenyl	88.0	34.8-132		%REC	1	11/20/03
ICP METALS, TOTAL SW6010B Analyst: VVG-L						
Arsenic	7.8	5.1		mg/Kg	1	11/19/03 1:35:00 PM
Barium	130	0.26		mg/Kg	1	11/19/03 1:35:00 PM
Cadmium	0.84	0.26		mg/Kg	1	11/19/03 1:35:00 PM
Chromium	10	0.51		mg/Kg	1	11/19/03 1:35:00 PM
Lead	13	0.26		mg/Kg	1	11/19/03 1:35:00 PM
Selenium	ND	5.1		mg/Kg	1	11/19/03 1:35:00 PM
Silver	ND	0.51		mg/Kg	1	11/19/03 1:35:00 PM
MERCURY, TOTAL SW7471 Analyst: ATV-L						
Mercury	0.14	0.031		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS SW8270C Analyst: JRW-L						
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 L. Rear

Lab Order: L0311191

Collection Date: 11/7/03 10:30:00 AM

Project: V2126

Lab ID: L0311191-001

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-001

Client Sample ID: 059905 L. Rear
Collection Date: 11/7/03 10:30:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	57.0	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	75.1	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	74.8	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	80.4	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	71.2	23-120		%REC	1	11/19/03
Surr: Phenol-d6	73.9	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-001

Client Sample ID: 059905 L. Rear
Collection Date: 11/7/03 10:30:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Chloromethane	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Styrene	ND	50		µg/Kg	10	11/14/03
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-001

Client Sample ID: 059905 L. Rear
Collection Date: 11/7/03 10:30:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Surr: Dibromofluoromethane	104	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	99.7	79.8-121		%REC	10	11/14/03
Surr: 4-Bromofluorobenzene	110	27.8-154		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-002

Client Sample ID: 059905 Left
Collection Date: 11/7/03 10:35:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH						
		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	150	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	150	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	65.1	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS						
		SW8082				Analyst: JRW-L
Aroclor 1016	ND	20		µg/Kg	1	11/20/03
Aroclor 1221	ND	20		µg/Kg	1	11/20/03
Aroclor 1232	ND	20		µg/Kg	1	11/20/03
Aroclor 1242	ND	20		µg/Kg	1	11/20/03
Aroclor 1248	ND	20		µg/Kg	1	11/20/03
Aroclor 1254	ND	20		µg/Kg	1	11/20/03
Aroclor 1260	ND	20		µg/Kg	1	11/20/03
Surr: Tetrachloro-m-xylene	95.5	36.2-139		%REC	1	11/20/03
Surr: Decachlorobiphenyl	89.0	34.8-132		%REC	1	11/20/03
ICP METALS, TOTAL						
		SW6010B				Analyst: VVG-L
Arsenic	13	5.2		mg/Kg	1	11/19/03 1:40:00 PM
Barium	200	0.26		mg/Kg	1	11/19/03 1:40:00 PM
Cadmium	0.81	0.26		mg/Kg	1	11/19/03 1:40:00 PM
Chromium	9.5	0.52		mg/Kg	1	11/19/03 1:40:00 PM
Lead	28	0.26		mg/Kg	1	11/19/03 1:40:00 PM
Selenium	9.1	5.2		mg/Kg	1	11/19/03 1:40:00 PM
Silver	30	0.52		mg/Kg	1	11/19/03 1:40:00 PM
MERCURY, TOTAL						
		SW7471				Analyst: ATV-L
Mercury	0.38	0.029		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS						
		SW8270C				Analyst: JRW-L
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-002

Client Sample ID: 059905 Left
Collection Date: 11/7/03 10:35:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 Left

Lab Order: L0311191

Collection Date: 11/7/03 10:35:00 AM

Project: V2126

Lab ID: L0311191-002

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	81.3	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	87.7	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	87.8	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	103	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	78.1	23-120		%REC	1	11/19/03
Surr: Phenol-d6	93.9	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 Left

Lab Order: L0311191

Collection Date: 11/7/03 10:35:00 AM

Project: V2126

Lab ID: L0311191-002

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03
Chloromethane	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
 Lab Order: L0311191
 Project: V2126
 Lab ID: L0311191-002

Client Sample ID: 059905 Left
 Collection Date: 11/7/03 10:35:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Styrene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
Surr: 4-Bromofluorobenzene	109	27.8-154		%REC	10	11/14/03
Surr: Dibromofluoromethane	105	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	100	79.8-121		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-003

Client Sample ID: 059905 Front
Collection Date: 11/7/03 10:40:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH						
		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	58	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	58	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	76.1	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS						
		SW8082				Analyst: JRW-L
Aroclor 1016	ND	20		µg/Kg	1	11/20/03
Aroclor 1221	ND	20		µg/Kg	1	11/20/03
Aroclor 1232	ND	20		µg/Kg	1	11/20/03
Aroclor 1242	ND	20		µg/Kg	1	11/20/03
Aroclor 1248	ND	20		µg/Kg	1	11/20/03
Aroclor 1254	ND	20		µg/Kg	1	11/20/03
Aroclor 1260	ND	20		µg/Kg	1	11/20/03
Surr: Tetrachloro-m-xylene	139	36.2-139		%REC	1	11/20/03
Surr: Decachlorobiphenyl	131	34.8-132		%REC	1	11/20/03
ICP METALS, TOTAL						
		SW6010B				Analyst: VVG-L
Arsenic	13	5.2		mg/Kg	1	11/19/03 1:44:00 PM
Barium	110	0.26		mg/Kg	1	11/19/03 1:44:00 PM
Cadmium	1.8	0.26		mg/Kg	1	11/19/03 1:44:00 PM
Chromium	15	0.52		mg/Kg	1	11/19/03 1:44:00 PM
Lead	46	0.26		mg/Kg	1	11/19/03 1:44:00 PM
Selenium	6.2	5.2		mg/Kg	1	11/19/03 1:44:00 PM
Silver	ND	0.52		mg/Kg	1	11/19/03 1:44:00 PM
MERCURY, TOTAL						
		SW7471				Analyst: ATV-L
Mercury	0.36	0.030		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS						
		SW8270C				Analyst: JRW-L
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-003

Client Sample ID: 059905 Front
Collection Date: 11/7/03 10:40:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 Front

Lab Order: L0311191

Collection Date: 11/7/03 10:40:00 AM

Project: V2126

Lab ID: L0311191-003

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	75.7	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	76.3	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	80.3	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	97.9	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	69.7	23-120		%REC	1	11/19/03
Surr: Phenol-d6	82.9	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 Front

Lab Order: L0311191

Collection Date: 11/7/03 10:40:00 AM

Project: V2126

Lab ID: L0311191-003

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03
Chloromethane	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-003

Client Sample ID: 059905 Front
Collection Date: 11/7/03 10:40:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Styrene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
Surr: 4-Bromofluorobenzene	112	27.8-154		%REC	10	11/14/03
Surr: Dibromofluoromethane	104	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	99.1	79.8-121		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-004

Client Sample ID: 059905 Right
Collection Date: 11/7/03 10:45:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH						
		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	ND	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	ND	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	51.1	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS						
		SW8082				Analyst: JRW-L
Aroclor 1016	ND	20		µg/Kg	1	11/20/03
Aroclor 1221	ND	20		µg/Kg	1	11/20/03
Aroclor 1232	ND	20		µg/Kg	1	11/20/03
Aroclor 1242	ND	20		µg/Kg	1	11/20/03
Aroclor 1248	ND	20		µg/Kg	1	11/20/03
Aroclor 1254	ND	20		µg/Kg	1	11/20/03
Aroclor 1260	ND	20		µg/Kg	1	11/20/03
Surr: Tetrachloro-m-xylene	128	36.2-139		%REC	1	11/20/03
Surr: Decachlorobiphenyl	118	34.8-132		%REC	1	11/20/03
ICP METALS, TOTAL						
		SW6010B				Analyst: VVG-L
Arsenic	11	4.9		mg/Kg	1	11/19/03 1:48:00 PM
Barium	120	0.25		mg/Kg	1	11/19/03 1:48:00 PM
Cadmium	0.76	0.25		mg/Kg	1	11/19/03 1:48:00 PM
Chromium	8.2	0.49		mg/Kg	1	11/19/03 1:48:00 PM
Lead	17	0.25		mg/Kg	1	11/19/03 1:48:00 PM
Selenium	6.6	4.9		mg/Kg	1	11/19/03 1:48:00 PM
Silver	ND	0.49		mg/Kg	1	11/19/03 1:48:00 PM
MERCURY, TOTAL						
		SW7471				Analyst: ATV-L
Mercury	ND	0.031		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS						
		SW8270C				Analyst: JRW-L
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-004

Client Sample ID: 059905 Right
Collection Date: 11/7/03 10:45:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-004

Client Sample ID: 059905 Right
Collection Date: 11/7/03 10:45:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	72.2	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	70.6	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	71.7	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	93.6	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	64.5	23-120		%REC	1	11/19/03
Surr: Phenol-d6	76.9	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-004

Client Sample ID: 059905 Right
Collection Date: 11/7/03 10:45:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03
Chloromethane	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-004

Client Sample ID: 059905 Right
Collection Date: 11/7/03 10:45:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Styrene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
Surr: 4-Bromofluorobenzene	97.0	27.8-154		%REC	10	11/14/03
Surr: Dibromofluoromethane	104	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	100	79.8-121		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-005

Client Sample ID: 059905 Dup A
Collection Date: 11/7/03

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH						
		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	ND	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	ND	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	39.0	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS						
		SW8082				Analyst: JRW-L
Aroclor 1016	ND	20		µg/Kg	1	11/20/03
Aroclor 1221	ND	20		µg/Kg	1	11/20/03
Aroclor 1232	ND	20		µg/Kg	1	11/20/03
Aroclor 1242	ND	20		µg/Kg	1	11/20/03
Aroclor 1248	ND	20		µg/Kg	1	11/20/03
Aroclor 1254	ND	20		µg/Kg	1	11/20/03
Aroclor 1260	ND	20		µg/Kg	1	11/20/03
Surr: Tetrachloro-m-xylene	86.5	36.2-139		%REC	1	11/20/03
Surr: Decachlorobiphenyl	76.0	34.8-132		%REC	1	11/20/03
ICP METALS, TOTAL						
		SW6010B				Analyst: VVG-L
Arsenic	11	4.9		mg/Kg	1	11/19/03 1:52:00 PM
Barium	130	0.24		mg/Kg	1	11/19/03 1:52:00 PM
Cadmium	1.2	0.24		mg/Kg	1	11/19/03 1:52:00 PM
Chromium	11	0.49		mg/Kg	1	11/19/03 1:52:00 PM
Lead	15	0.24		mg/Kg	1	11/19/03 1:52:00 PM
Selenium	ND	4.9		mg/Kg	1	11/19/03 1:52:00 PM
Silver	ND	0.49		mg/Kg	1	11/19/03 1:52:00 PM
MERCURY, TOTAL						
		SW7471				Analyst: ATV-L
Mercury	0.16	0.032		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS						
		SW8270C				Analyst: JRW-L
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-005

Client Sample ID: 059905 Dup A

Collection Date: 11/7/03

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-005

Client Sample ID: 059905 Dup A
Collection Date: 11/7/03
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	59.6	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	72.9	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	69.6	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	61.9	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	67.9	23-120		%REC	1	11/19/03
Surr: Phenol-d6	66.3	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-005

Client Sample ID: 059905 Dup A
Collection Date: 11/7/03
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03
Chloromethane	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-005

Client Sample ID: 059905 Dup A
Collection Date: 11/7/03
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Styrene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
Surr: 4-Bromofluorobenzene	110	27.8-154		%REC	10	11/14/03
Surr: Dibromofluoromethane	103	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	99.5	79.8-121		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-006

Client Sample ID: 059905 R Rear
Collection Date: 11/7/03 10:50:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH						
		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	11/20/03
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	11/20/03
Oil Range Organics (C22-C34)	83	50		mg/Kg	1	11/20/03
Total Petroleum Hydrocarbons	83	20		mg/Kg	1	11/20/03
Surr: n-Octacosane	50.1	34.8-139		%REC	1	11/20/03
POLYCHORINATED BIPHENYLS						
		SW8082				Analyst: JRW-L
Aroclor 1016	ND	20	H,M2	µg/Kg	1	11/25/03
Aroclor 1221	ND	20	H	µg/Kg	1	11/25/03
Aroclor 1232	ND	20	H	µg/Kg	1	11/25/03
Aroclor 1242	ND	20	H	µg/Kg	1	11/25/03
Aroclor 1248	ND	20	H	µg/Kg	1	11/25/03
Aroclor 1254	ND	20	H	µg/Kg	1	11/25/03
Aroclor 1260	ND	20	H	µg/Kg	1	11/25/03
Surr: Tetrachloro-m-xylene	86.5	36.2-139		%REC	1	11/25/03
Surr: Decachlorobiphenyl	83.5	34.8-132		%REC	1	11/25/03
ICP METALS, TOTAL						
		SW6010B				Analyst: VVG-L
Arsenic	11	5.0		mg/Kg	1	11/19/03 1:56:00 PM
Barium	130	0.25		mg/Kg	1	11/19/03 1:56:00 PM
Cadmium	1.1	0.25		mg/Kg	1	11/19/03 1:56:00 PM
Chromium	10	0.50		mg/Kg	1	11/19/03 1:56:00 PM
Lead	15	0.25		mg/Kg	1	11/19/03 1:56:00 PM
Selenium	12	5.0		mg/Kg	1	11/19/03 1:56:00 PM
Silver	ND	0.50		mg/Kg	1	11/19/03 1:56:00 PM
MERCURY, TOTAL						
		SW7471				Analyst: ATV-L
Mercury	0.17	0.030		mg/Kg	1	11/14/03
SEMIVOLATILE ORGANICS						
		SW8270C				Analyst: JRW-L
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,2-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,3-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
1,4-Dichlorobenzene	ND	330		µg/Kg	1	11/19/03
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dichlorophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dimethylphenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrophenol	ND	330		µg/Kg	1	11/19/03
2,4-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2,6-Dinitrotoluene	ND	330		µg/Kg	1	11/19/03
2-Chloronaphthalene	ND	330		µg/Kg	1	11/19/03
2-Chlorophenol	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-006

Client Sample ID: 059905 R Rear
Collection Date: 11/7/03 10:50:00 AM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
2-Methylnaphthalene	ND	330		µg/Kg	1	11/19/03
2-Methylphenol	ND	330		µg/Kg	1	11/19/03
2-Nitroaniline	ND	330		µg/Kg	1	11/19/03
2-Nitrophenol	ND	330		µg/Kg	1	11/19/03
3&4-Methylphenols, Total	ND	330		µg/Kg	1	11/19/03
3,3'-Dichlorobenzidine	ND	330		µg/Kg	1	11/19/03
3-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4,6-Dinitro-2-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Bromophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Chloro-3-methylphenol	ND	330		µg/Kg	1	11/19/03
4-Chloroaniline	ND	330		µg/Kg	1	11/19/03
4-Chlorophenyl phenyl ether	ND	330		µg/Kg	1	11/19/03
4-Nitroaniline	ND	330		µg/Kg	1	11/19/03
4-Nitrophenol	ND	330		µg/Kg	1	11/19/03
Acenaphthene	ND	330		µg/Kg	1	11/19/03
Acenaphthylene	ND	330		µg/Kg	1	11/19/03
Aniline	ND	330		µg/Kg	1	11/19/03
Anthracene	ND	330		µg/Kg	1	11/19/03
Azobenzene	ND	330		µg/Kg	1	11/19/03
Benz(a)anthracene	ND	330		µg/Kg	1	11/19/03
Benzo(a)pyrene	ND	330		µg/Kg	1	11/19/03
Benzo(b)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	11/19/03
Benzo(k)fluoranthene	ND	330		µg/Kg	1	11/19/03
Benzoic acid	ND	330		µg/Kg	1	11/19/03
Benzyl alcohol	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	11/19/03
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	11/19/03
Butyl benzyl phthalate	ND	330		µg/Kg	1	11/19/03
Carbazole	ND	330		µg/Kg	1	11/19/03
Chrysene	ND	330		µg/Kg	1	11/19/03
Di-n-butyl phthalate	ND	330		µg/Kg	1	11/19/03
Di-n-octyl phthalate	ND	330		µg/Kg	1	11/19/03
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	11/19/03
Dibenzofuran	ND	330		µg/Kg	1	11/19/03
Diethyl phthalate	ND	330		µg/Kg	1	11/19/03
Dimethyl phthalate	ND	330		µg/Kg	1	11/19/03
Fluoranthene	ND	330		µg/Kg	1	11/19/03
Fluorene	ND	330		µg/Kg	1	11/19/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-006

Client Sample ID: 059905 R Rear
Collection Date: 11/7/03 10:50:00 AM
Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		SW8270C		Analyst: JRW-L		
Hexachlorobenzene	ND	330		µg/Kg	1	11/19/03
Hexachlorobutadiene	ND	330		µg/Kg	1	11/19/03
Hexachlorocyclopentadiene	ND	330		µg/Kg	1	11/19/03
Hexachloroethane	ND	330		µg/Kg	1	11/19/03
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	11/19/03
Isophorone	ND	330		µg/Kg	1	11/19/03
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodimethylamine	ND	330		µg/Kg	1	11/19/03
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	11/19/03
Naphthalene	ND	330		µg/Kg	1	11/19/03
Nitrobenzene	ND	330		µg/Kg	1	11/19/03
Pentachlorophenol	ND	330		µg/Kg	1	11/19/03
Phenanthrene	ND	330		µg/Kg	1	11/19/03
Phenol	ND	330		µg/Kg	1	11/19/03
Pyrene	ND	330		µg/Kg	1	11/19/03
Pyridine	ND	330		µg/Kg	1	11/19/03
Surr: 2,4,6-Tribromophenol	64.2	19-122		%REC	1	11/19/03
Surr: 2-Fluorobiphenyl	66.5	30-115		%REC	1	11/19/03
Surr: 2-Fluorophenol	60.7	25-121		%REC	1	11/19/03
Surr: 4-Terphenyl-d14	65.8	18-137		%REC	1	11/19/03
Surr: Nitrobenzene-d5	54.0	23-120		%REC	1	11/19/03
Surr: Phenol-d6	60.9	24-113		%REC	1	11/19/03
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,1-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg	10	11/14/03
1,1,2-Trichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,1-Dichloroethene	ND	50		µg/Kg	10	11/14/03
1,1-Dichloropropene	ND	50		µg/Kg	10	11/14/03
1,2,3-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,3-Trichloropropane	ND	50		µg/Kg	10	11/14/03
1,2,4-Trichlorobenzene	ND	250		µg/Kg	10	11/14/03
1,2,4-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg	10	11/14/03
1,2-Dibromoethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,2-Dichloroethane	ND	50		µg/Kg	10	11/14/03
1,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,3,5-Trimethylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 R Rear

Lab Order: L0311191

Collection Date: 11/7/03 10:50:00 AM

Project: V2126

Lab ID: L0311191-006

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
1,3-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
1,3-Dichloropropane	ND	50		µg/Kg	10	11/14/03
1,4-Dichlorobenzene	ND	50		µg/Kg	10	11/14/03
2,2-Dichloropropane	ND	50		µg/Kg	10	11/14/03
2-Butanone	ND	250		µg/Kg	10	11/14/03
2-Chloroethyl vinyl ether	ND	50		µg/Kg	10	11/14/03
2-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
2-Hexanone	ND	250		µg/Kg	10	11/14/03
4-Chlorotoluene	ND	50		µg/Kg	10	11/14/03
4-Methyl-2-pentanone	ND	250		µg/Kg	10	11/14/03
Acetone	ND	250		µg/Kg	10	11/14/03
Benzene	ND	50		µg/Kg	10	11/14/03
Bromobenzene	ND	50		µg/Kg	10	11/14/03
Bromochloromethane	ND	50		µg/Kg	10	11/14/03
Bromodichloromethane	ND	50		µg/Kg	10	11/14/03
Bromoform	ND	50		µg/Kg	10	11/14/03
Bromomethane	ND	50		µg/Kg	10	11/14/03
Carbon disulfide	ND	50		µg/Kg	10	11/14/03
Carbon tetrachloride	ND	50		µg/Kg	10	11/14/03
Chlorobenzene	ND	50		µg/Kg	10	11/14/03
Chloroethane	ND	50		µg/Kg	10	11/14/03
Chloroform	ND	50		µg/Kg	10	11/14/03
Chloromethane	ND	50		µg/Kg	10	11/14/03
cis-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
cis-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Dibromochloromethane	ND	50		µg/Kg	10	11/14/03
Dibromomethane	ND	50		µg/Kg	10	11/14/03
Dichlorodifluoromethane	ND	50		µg/Kg	10	11/14/03
Ethylbenzene	ND	50		µg/Kg	10	11/14/03
Hexachlorobutadiene	ND	250		µg/Kg	10	11/14/03
Iodomethane	ND	50		µg/Kg	10	11/14/03
Isopropylbenzene	ND	50		µg/Kg	10	11/14/03
m,p-Xylene	ND	100		µg/Kg	10	11/14/03
Methyl t-butyl ether (MTBE)	ND	50		µg/Kg	10	11/14/03
Methylene chloride	ND	100		µg/Kg	10	11/14/03
n-Butylbenzene	ND	50		µg/Kg	10	11/14/03
n-Propylbenzene	ND	50		µg/Kg	10	11/14/03
Naphthalene	ND	250		µg/Kg	10	11/14/03
o-Xylene	ND	50		µg/Kg	10	11/14/03
p-Isopropyltoluene	ND	50		µg/Kg	10	11/14/03
sec-Butylbenzene	ND	50		µg/Kg	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada

Client Sample ID: 059905 R Rear

Lab Order: L0311191

Collection Date: 11/7/03 10:50:00 AM

Project: V2126

Lab ID: L0311191-006

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: GHP-L		
Styrene	ND	50		µg/Kg	10	11/14/03
tert-Butylbenzene	ND	50		µg/Kg	10	11/14/03
Tetrachloroethene	ND	50		µg/Kg	10	11/14/03
Toluene	ND	50		µg/Kg	10	11/14/03
trans-1,2-Dichloroethene	ND	50		µg/Kg	10	11/14/03
trans-1,3-Dichloropropene	ND	50		µg/Kg	10	11/14/03
Trichloroethene	ND	50		µg/Kg	10	11/14/03
Trichlorofluoromethane	ND	50		µg/Kg	10	11/14/03
Vinyl acetate	ND	50		µg/Kg	10	11/14/03
Vinyl chloride	ND	50		µg/Kg	10	11/14/03
Surr: 4-Bromofluorobenzene	111	27.8-154		%REC	10	11/14/03
Surr: Dibromofluoromethane	101	82.1-130		%REC	10	11/14/03
Surr: Toluene-d8	100	79.8-121		%REC	10	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-007

Client Sample ID: 059905TBA
Collection Date: 11/7/03
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: TAW-L		
Acetone	ND	25		µg/L	1	11/14/03
Benzene	ND	5.0		µg/L	1	11/14/03
Bromobenzene	ND	5.0		µg/L	1	11/14/03
Bromochloromethane	ND	5.0		µg/L	1	11/14/03
Bromodichloromethane	ND	5.0		µg/L	1	11/14/03
Bromoform	ND	5.0		µg/L	1	11/14/03
Bromomethane	ND	5.0		µg/L	1	11/14/03
2-Butanone	ND	25		µg/L	1	11/14/03
n-Butylbenzene	ND	5.0		µg/L	1	11/14/03
sec-Butylbenzene	ND	5.0		µg/L	1	11/14/03
tert-Butylbenzene	ND	5.0		µg/L	1	11/14/03
Carbon disulfide	ND	5.0		µg/L	1	11/14/03
Carbon tetrachloride	ND	5.0		µg/L	1	11/14/03
Chlorobenzene	ND	5.0		µg/L	1	11/14/03
Chloroethane	ND	5.0		µg/L	1	11/14/03
2-Chloroethyl vinyl ether	ND	5.0		µg/L	1	11/14/03
Chloroform	ND	5.0		µg/L	1	11/14/03
Chloromethane	ND	5.0		µg/L	1	11/14/03
2-Chlorotoluene	ND	5.0		µg/L	1	11/14/03
4-Chlorotoluene	ND	5.0		µg/L	1	11/14/03
Dibromochloromethane	ND	5.0		µg/L	1	11/14/03
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	11/14/03
1,2-Dibromoethane	ND	5.0		µg/L	1	11/14/03
Dibromomethane	ND	5.0		µg/L	1	11/14/03
1,2-Dichlorobenzene	ND	5.0		µg/L	1	11/14/03
1,3-Dichlorobenzene	ND	5.0		µg/L	1	11/14/03
1,4-Dichlorobenzene	ND	5.0		µg/L	1	11/14/03
Dichlorodifluoromethane	ND	5.0		µg/L	1	11/14/03
1,1-Dichloroethane	ND	5.0		µg/L	1	11/14/03
1,2-Dichloroethane	ND	5.0		µg/L	1	11/14/03
1,1-Dichloroethene	ND	5.0		µg/L	1	11/14/03
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	11/14/03
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	11/14/03
1,2-Dichloropropane	ND	5.0		µg/L	1	11/14/03
1,3-Dichloropropane	ND	5.0		µg/L	1	11/14/03
2,2-Dichloropropane	ND	5.0		µg/L	1	11/14/03
1,1-Dichloropropene	ND	5.0		µg/L	1	11/14/03
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/03
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/03
Ethylbenzene	ND	5.0		µg/L	1	11/14/03
Hexachlorobutadiene	ND	25		µg/L	1	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

NEL Laboratories, Las Vegas

Date: 26-Nov-03

CLIENT: Bechtel Nevada
Lab Order: L0311191
Project: V2126
Lab ID: L0311191-007

Client Sample ID: 059905TBA
Collection Date: 11/7/03

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		SW8260B		Analyst: TAW-L		
2-Hexanone	ND	25		µg/L	1	11/14/03
Iodomethane	ND	5.0		µg/L	1	11/14/03
Isopropylbenzene	ND	5.0		µg/L	1	11/14/03
p-Isopropyltoluene	ND	5.0		µg/L	1	11/14/03
Methylene chloride	ND	10		µg/L	1	11/14/03
4-Methyl-2-pentanone	ND	25		µg/L	1	11/14/03
Methyl t-butyl ether (MTBE)	ND	5.0		µg/L	1	11/14/03
Naphthalene	ND	25		µg/L	1	11/14/03
n-Propylbenzene	ND	5.0		µg/L	1	11/14/03
Styrene	ND	5.0		µg/L	1	11/14/03
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/14/03
Tetrachloroethene	ND	5.0		µg/L	1	11/14/03
Toluene	ND	5.0		µg/L	1	11/14/03
1,2,3-Trichlorobenzene	ND	25		µg/L	1	11/14/03
1,2,4-Trichlorobenzene	ND	25		µg/L	1	11/14/03
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/14/03
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/14/03
Trichloroethene	ND	5.0		µg/L	1	11/14/03
Trichlorofluoromethane	ND	5.0		µg/L	1	11/14/03
1,2,3-Trichloropropane	ND	5.0		µg/L	1	11/14/03
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	11/14/03
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	11/14/03
Vinyl acetate	ND	5.0		µg/L	1	11/14/03
Vinyl chloride	ND	5.0		µg/L	1	11/14/03
o-Xylene	ND	5.0		µg/L	1	11/14/03
m,p-Xylene	ND	10		µg/L	1	11/14/03
Surr: Dibromofluoromethane	98.1	78.2-123		%REC	1	11/14/03
Surr: Toluene-d8	98.1	80.8-118		%REC	1	11/14/03
Surr: 4-Bromofluorobenzene	89.3	66.7-132		%REC	1	11/14/03

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

SAMPLE DELIVERY GROUP

V2127

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Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 L REAR</u>		
Other Sample ID:	Collection Date: <u>11/7/2003 10:30:00 A</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-01	22.3	2.12	3.08	0.261
EPA 901.1	CO-60	NTS03-4958-01	-0.027	0.022	0.022	0.031
EPA 901.1	Y-88	NTS03-4958-01	0.011	0.012	0.012	0.025
EPA 901.1	RU-106	NTS03-4958-01	0.058	0.150	0.150	0.256
EPA 901.1	SB-125	NTS03-4958-01	0.034	0.043	0.044	0.076
EPA 901.1	CS-134	NTS03-4958-01	0.001	0.018	0.018	0.026
EPA 901.1	CS-137	NTS03-4958-01	0.130	0.032	0.035	0.029
EPA 901.1	CE-144	NTS03-4958-01	-0.087	1.81	1.81	0.212
EPA 901.1	PM-144	NTS03-4958-01	0.012	0.016	0.016	0.025
EPA 901.1	PM-146	NTS03-4958-01	0.004	0.021	0.021	0.036
EPA 901.1	EU-152	NTS03-4958-01	0.025	0.048	0.048	0.078
EPA 901.1	EU-154	NTS03-4958-01	0.000	0.000	0.000	0.056
EPA 901.1	EU-155	NTS03-4958-01	0.388	0.088	0.096	0.122
EPA 901.1	TL-208	NTS03-4958-01	0.542	0.069	0.088	0.031
EPA 901.1	BI-211	NTS03-4958-01	2.44	0.621	0.667	0.177
EPA 901.1	BI-212	NTS03-4958-01	0.955	0.290	0.306	0.226
EPA 901.1	PB-212	NTS03-4958-01	1.58	0.466	0.492	0.047
EPA 901.1	BI-214	NTS03-4958-01	0.808	0.110	0.137	0.055
EPA 901.1	PB-214	NTS03-4958-01	0.849	0.214	0.231	0.062
EPA 901.1	RA-224	NTS03-4958-01	1.65	0.852	1.08	0.539
EPA 901.1	RA-226	NTS03-4958-01	2.44	0.688	0.730	0.651
EPA 901.1	AC-228	NTS03-4958-01	1.65	0.229	0.282	0.106
EPA 901.1	TH-234	NTS03-4958-01	1.30	0.399	0.420	0.510
EPA 901.1	U-235	NTS03-4958-01	0.148	0.042	0.044	0.040
EPA 901.1	U-238	NTS03-4958-01	0.913	3.08	3.08	5.45
EPA 901.1	AM-241	NTS03-4958-01	0.070	0.090	0.090	0.152

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 RIGHT</u>		
Other Sample ID:	Collection Date: <u>11/7/2003 10:30:00 A</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-02	24.3	2.25	3.31	0.186
EPA 901.1	CO-60	NTS03-4958-02	-0.005	0.020	0.020	0.028
EPA 901.1	Y-88	NTS03-4958-02	0.004	0.012	0.012	0.022
EPA 901.1	RU-106	NTS03-4958-02	-0.007	0.128	0.128	0.212
EPA 901.1	SB-125	NTS03-4958-02	0.015	0.039	0.039	0.067
EPA 901.1	CS-134	NTS03-4958-02	0.010	0.015	0.015	0.023
EPA 901.1	CS-137	NTS03-4958-02	0.279	0.039	0.048	0.025
EPA 901.1	CE-144	NTS03-4958-02	0.399	1.61	1.61	0.184
EPA 901.1	PM-144	NTS03-4958-02	0.009	0.015	0.015	0.021
EPA 901.1	PM-146	NTS03-4958-02	0.025	0.020	0.020	0.035
EPA 901.1	EU-152	NTS03-4958-02	0.054	0.043	0.043	0.074
EPA 901.1	EU-154	NTS03-4958-02	0.000	0.000	0.000	0.052
EPA 901.1	EU-155	NTS03-4958-02	0.416	0.087	0.096	0.108
EPA 901.1	TL-208	NTS03-4958-02	0.457	0.058	0.074	0.026
EPA 901.1	BI-211	NTS03-4958-02	2.49	0.545	0.599	0.142
EPA 901.1	BI-212	NTS03-4958-02	1.03	0.234	0.256	0.199
EPA 901.1	PB-212	NTS03-4958-02	1.42	0.348	0.376	0.044
EPA 901.1	BI-214	NTS03-4958-02	0.848	0.107	0.137	0.047
EPA 901.1	RA-224	NTS03-4958-02	3.47	1.06	1.75	0.505
EPA 901.1	RA-226	NTS03-4958-02	2.59	0.678	0.726	0.567
EPA 901.1	AC-228	NTS03-4958-02	1.57	0.208	0.260	0.093
EPA 901.1	TH-234	NTS03-4958-02	2.98	0.534	0.612	0.456
EPA 901.1	U-235	NTS03-4958-02	0.157	0.041	0.044	0.034
EPA 901.1	U-238	NTS03-4958-02	5.52	2.96	3.01	5.36
EPA 901.1	AM-241	NTS03-4958-02	0.028	0.109	0.109	0.159

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 FRONT</u>		
Other Sample ID:	Collection Date: <u>11/7/2003 10:40:00 A</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-03	25.1	2.33	3.43	0.227
EPA 901.1	CO-60	NTS03-4958-03	-0.000	0.020	0.020	0.028
EPA 901.1	Y-88	NTS03-4958-03	-0.006	0.013	0.013	0.021
EPA 901.1	RU-106	NTS03-4958-03	-0.073	0.138	0.138	0.224
EPA 901.1	SB-125	NTS03-4958-03	0.008	0.041	0.041	0.070
EPA 901.1	CS-134	NTS03-4958-03	-0.009	0.017	0.017	0.023
EPA 901.1	CS-137	NTS03-4958-03	0.417	0.054	0.068	0.027
EPA 901.1	CE-144	NTS03-4958-03	-1.48	1.52	1.53	0.190
EPA 901.1	PM-144	NTS03-4958-03	0.002	0.015	0.015	0.024
EPA 901.1	PM-146	NTS03-4958-03	0.005	0.020	0.020	0.034
EPA 901.1	EU-152	NTS03-4958-03	0.031	0.043	0.044	0.074
EPA 901.1	EU-154	NTS03-4958-03	0.000	0.000	0.000	0.051
EPA 901.1	EU-155	NTS03-4958-03	0.326	0.088	0.094	0.112
EPA 901.1	TL-208	NTS03-4958-03	0.531	0.068	0.086	0.026
EPA 901.1	Bi-211	NTS03-4958-03	2.71	0.583	0.643	0.150
EPA 901.1	PB-212	NTS03-4958-03	1.51	0.370	0.400	0.045
EPA 901.1	Bi-214	NTS03-4958-03	0.909	0.113	0.145	0.050
EPA 901.1	PB-214	NTS03-4958-03	0.943	0.201	0.222	0.052
EPA 901.1	RA-224	NTS03-4958-03	1.72	0.728	1.00	0.516
EPA 901.1	RA-226	NTS03-4958-03	2.61	0.661	0.711	0.617
EPA 901.1	AC-228	NTS03-4958-03	1.52	0.209	0.258	0.092
EPA 901.1	TH-234	NTS03-4958-03	2.73	0.549	0.613	0.479
EPA 901.1	U-235	NTS03-4958-03	0.158	0.040	0.043	0.037
EPA 901.1	U-238	NTS03-4958-03	3.76	3.00	3.02	5.34
EPA 901.1	AM-241	NTS03-4958-03	0.001	0.114	0.114	0.165

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 LEFT</u>		
Other Sample ID:	Collection Date: <u>11/7/2003 10:35:00 A</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-04	25.3	2.36	3.46	0.200
EPA 901.1	CO-60	NTS03-4958-04	0.002	0.021	0.021	0.029
EPA 901.1	Y-88	NTS03-4958-04	-0.002	0.012	0.012	0.021
EPA 901.1	NB-95	NTS03-4958-04	0.077	0.034	0.034	0.036
EPA 901.1	RU-106	NTS03-4958-04	-0.061	0.152	0.153	0.248
EPA 901.1	SB-125	NTS03-4958-04	0.032	0.046	0.046	0.079
EPA 901.1	CS-134	NTS03-4958-04	-0.013	0.018	0.018	0.025
EPA 901.1	CS-137	NTS03-4958-04	0.438	0.059	0.073	0.030
EPA 901.1	CE-144	NTS03-4958-04	-0.803	2.17	2.17	0.226
EPA 901.1	PM-144	NTS03-4958-04	0.005	0.016	0.016	0.026
EPA 901.1	PM-146	NTS03-4958-04	0.018	0.022	0.022	0.038
EPA 901.1	EU-152	NTS03-4958-04	0.052	0.052	0.052	0.085
EPA 901.1	EU-154	NTS03-4958-04	0.000	0.000	0.000	0.060
EPA 901.1	EU-155	NTS03-4958-04	0.300	0.112	0.116	0.112
EPA 901.1	TL-208	NTS03-4958-04	0.540	0.069	0.087	0.028
EPA 901.1	BI-211	NTS03-4958-04	2.84	0.715	0.769	0.169
EPA 901.1	BI-212	NTS03-4958-04	1.06	0.262	0.283	0.230
EPA 901.1	PB-212	NTS03-4958-04	1.49	0.440	0.464	0.048
EPA 901.1	BI-214	NTS03-4958-04	0.873	0.118	0.147	0.053
EPA 901.1	PB-214	NTS03-4958-04	0.989	0.247	0.266	0.057
EPA 901.1	RA-224	NTS03-4958-04	1.36	0.675	0.867	0.544
EPA 901.1	RA-226	NTS03-4958-04	1.90	3.30	3.31	0.638
EPA 901.1	AC-228	NTS03-4958-04	1.60	0.215	0.268	0.094
EPA 901.1	TH-234	NTS03-4958-04	11.4	1.25	1.70	0.603
EPA 901.1	U-235	NTS03-4958-04	0.208	0.192	0.193	0.040
EPA 901.1	U-238	NTS03-4958-04	18.0	5.48	5.77	4.60
EPA 901.1	AM-241	NTS03-4958-04	0.172	0.124	0.125	0.183

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>DUP A</u>		
Other Sample ID:	Collection Date: <u>11/7/2003</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-05	23.8	2.25	3.27	0.234
EPA 901.1	CO-60	NTS03-4958-05	0.001	0.022	0.022	0.031
EPA 901.1	Y-88	NTS03-4958-05	0.010	0.015	0.015	0.028
EPA 901.1	RU-106	NTS03-4958-05	-0.063	0.157	0.157	0.256
EPA 901.1	SB-125	NTS03-4958-05	0.033	0.044	0.044	0.077
EPA 901.1	CS-134	NTS03-4958-05	0.017	0.018	0.018	0.028
EPA 901.1	CS-137	NTS03-4958-05	0.047	0.035	0.035	0.032
EPA 901.1	CE-144	NTS03-4958-05	1.68	1.78	1.78	0.207
EPA 901.1	PM-144	NTS03-4958-05	0.004	0.016	0.016	0.027
EPA 901.1	PM-146	NTS03-4958-05	0.001	0.022	0.022	0.037
EPA 901.1	EU-152	NTS03-4958-05	0.029	0.047	0.047	0.080
EPA 901.1	EU-154	NTS03-4958-05	0.000	0.000	0.000	0.056
EPA 901.1	EU-155	NTS03-4958-05	0.283	0.093	0.098	0.100
EPA 901.1	TL-208	NTS03-4958-05	0.597	0.079	0.099	0.030
EPA 901.1	BI-211	NTS03-4958-05	2.82	0.617	0.678	0.163
EPA 901.1	BI-212	NTS03-4958-05	1.23	0.309	0.333	0.232
EPA 901.1	PB-212	NTS03-4958-05	1.73	0.424	0.458	0.050
EPA 901.1	BI-214	NTS03-4958-05	0.917	0.122	0.152	0.057
EPA 901.1	PB-214	NTS03-4958-05	0.982	0.213	0.235	0.057
EPA 901.1	RA-224	NTS03-4958-05	1.81	0.650	0.972	0.572
EPA 901.1	RA-226	NTS03-4958-05	2.86	0.752	0.805	0.650
EPA 901.1	AC-228	NTS03-4958-05	1.74	0.246	0.301	0.109
EPA 901.1	TH-234	NTS03-4958-05	2.36	0.590	0.636	0.526
EPA 901.1	U-235	NTS03-4958-05	0.173	0.046	0.049	0.039
EPA 901.1	U-238	NTS03-4958-05	1.42	3.24	3.24	5.65
EPA 901.1	AM-241	NTS03-4958-05	0.132	0.125	0.125	0.182

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 R REAR</u>		
Other Sample ID:	Collection Date: <u>11/7/2003 10:50:00 A</u>	Date Received: <u>11/14/2003</u>
	Batch Number: <u>4958</u>	Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	NTS03-4958-06	23.5	2.23	3.24	0.213
EPA 901.1	CO-60	NTS03-4958-06	-0.018	0.023	0.023	0.031
EPA 901.1	Y-88	NTS03-4958-06	-0.003	0.014	0.014	0.025
EPA 901.1	RU-106	NTS03-4958-06	0.086	0.159	0.159	0.272
EPA 901.1	SB-125	NTS03-4958-06	0.054	0.047	0.047	0.082
EPA 901.1	CS-134	NTS03-4958-06	0.003	0.018	0.018	0.026
EPA 901.1	CS-137	NTS03-4958-06	0.114	0.030	0.032	0.032
EPA 901.1	CE-144	NTS03-4958-06	-1.90	1.95	1.96	0.216
EPA 901.1	PM-144	NTS03-4958-06	-0.004	0.016	0.016	0.026
EPA 901.1	PM-146	NTS03-4958-06	0.013	0.022	0.022	0.038
EPA 901.1	EU-152	NTS03-4958-06	0.000	0.050	0.050	0.081
EPA 901.1	EU-154	NTS03-4958-06	0.000	0.000	0.000	0.057
EPA 901.1	EU-155	NTS03-4958-06	0.280	0.101	0.105	0.093
EPA 901.1	TL-208	NTS03-4958-06	0.557	0.072	0.091	0.032
EPA 901.1	Bi-211	NTS03-4958-06	2.85	0.725	0.779	0.166
EPA 901.1	Bi-212	NTS03-4958-06	1.01	0.266	0.284	0.225
EPA 901.1	PB-212	NTS03-4958-06	1.71	0.505	0.534	0.050
EPA 901.1	Bi-214	NTS03-4958-06	0.904	0.121	0.151	0.054
EPA 901.1	PB-214	NTS03-4958-06	0.994	0.250	0.269	0.058
EPA 901.1	RA-224	NTS03-4958-06	2.20	0.898	1.26	0.565
EPA 901.1	RA-226	NTS03-4958-06	2.44	0.748	0.786	0.682
EPA 901.1	AC-228	NTS03-4958-06	1.78	0.243	0.301	0.106
EPA 901.1	TH-234	NTS03-4958-06	1.69	0.460	0.490	0.498
EPA 901.1	U-235	NTS03-4958-06	0.148	0.045	0.048	0.041
EPA 901.1	U-238	NTS03-4958-06	0.776	3.06	3.06	5.41
EPA 901.1	AM-241	NTS03-4958-06	-0.030	0.093	0.093	0.154

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>None</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>N/A</u>		
Other Sample ID: <u>LC1</u>	Collection Date: <u>11/14/2003 9:00:00 A</u>	Date Received: <u>11/14/2003</u>
		Laboratory Code: <u>SCA</u>

<u>Method Number</u>	<u>Radionuclide</u>	<u>Laboratory Sample ID</u>	<u>Activity (pCi/g)</u>	<u>2 σ TPU (pCi/g)</u>	<u>Total Error (pCi/g)</u>	<u>MDA (pCi/g)</u>
EPA 901.1	CO-60	SCAQC-4958-LC1	16.4	1.59	2.28	0.061
EPA 901.1	CD-109	SCAQC-4958-LC1	9.41	2.10	2.30	1.80
EPA 901.1	CS-137	SCAQC-4958-LC1	25.7	2.59	3.65	0.089

<u>Quality Control Samples</u>				
<u>Radionuclide</u>	<u>Laboratory Control (LC)</u>	<u>Laboratory Duplicate (LD)</u>	<u>Matrix Spike (MS)</u>	<u>Preparation Blank (PB)</u>
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 L REAR</u>		
Other Sample ID: <u>LD1</u>	Collection Date: <u>11/7/2003 10:30:00 A</u>	Date Received: <u>11/14/2003</u>
		Laboratory Code: <u>SCA</u>

Method Number	Radionuclide	Laboratory Sample ID	Activity (pCi/g)	2 σ TPU (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
EPA 901.1	K-40	SCAQC-4958-LD1	23.4	2.21	3.22	0.234
EPA 901.1	CO-60	SCAQC-4958-LD1	-0.006	0.023	0.023	0.029
EPA 901.1	Y-88	SCAQC-4958-LD1	0.008	0.013	0.013	0.026
EPA 901.1	RU-106	SCAQC-4958-LD1	-0.107	0.158	0.158	0.254
EPA 901.1	SB-125	SCAQC-4958-LD1	0.014	0.044	0.044	0.075
EPA 901.1	CS-134	SCAQC-4958-LD1	-0.015	0.018	0.018	0.025
EPA 901.1	CS-137	SCAQC-4958-LD1	0.171	0.034	0.038	0.031
EPA 901.1	CE-144	SCAQC-4958-LD1	0.326	1.84	1.84	0.209
EPA 901.1	PM-144	SCAQC-4958-LD1	0.005	0.017	0.017	0.027
EPA 901.1	PM-146	SCAQC-4958-LD1	0.037	0.022	0.023	0.039
EPA 901.1	EU-152	SCAQC-4958-LD1	0.002	0.048	0.048	0.079
EPA 901.1	EU-154	SCAQC-4958-LD1	0.000	0.000	0.000	0.055
EPA 901.1	EU-155	SCAQC-4958-LD1	0.201	0.083	0.085	0.101
EPA 901.1	TL-208	SCAQC-4958-LD1	0.571	0.075	0.094	0.029
EPA 901.1	BI-211	SCAQC-4958-LD1	2.40	0.619	0.664	0.168
EPA 901.1	BI-212	SCAQC-4958-LD1	1.19	0.300	0.323	0.228
EPA 901.1	PB-212	SCAQC-4958-LD1	1.51	0.447	0.472	0.050
EPA 901.1	BI-214	SCAQC-4958-LD1	0.847	0.116	0.143	0.052
EPA 901.1	PB-214	SCAQC-4958-LD1	0.836	0.214	0.229	0.059
EPA 901.1	RA-224	SCAQC-4958-LD1	1.87	0.820	1.11	0.570
EPA 901.1	RA-226	SCAQC-4958-LD1	2.76	0.863	0.906	0.619
EPA 901.1	AC-228	SCAQC-4958-LD1	1.66	0.236	0.289	0.104
EPA 901.1	TH-234	SCAQC-4958-LD1	2.10	0.503	0.545	0.499
EPA 901.1	U-235	SCAQC-4958-LD1	0.167	0.052	0.055	0.038
EPA 901.1	U-238	SCAQC-4958-LD1	3.51	3.12	3.14	5.71
EPA 901.1	AM-241	SCAQC-4958-LD1	-0.052	0.100	0.101	0.148

Laboratory Samples for Duplicates		
Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-4958-LD1	NTS03-4958-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: V2127

Project Name: <u>Bechtel Nevada</u>	Chain-of-Custody Number: <u>NONE</u>	Matrix: <u>Soil</u>
Site Sample ID: <u>059905 L REAR</u>		
Other Sample ID: <u>LD1</u>	Collection Date: <u>11/7/2003 10:30:00 A</u>	Date Received: <u>11/14/2003</u>
		Laboratory Code: <u>SCA</u>

Quality Control Samples				
<u>Radionuclide</u>	<u>Laboratory Control (LC)</u>	<u>Laboratory Duplicate (LD)</u>	<u>Matrix Spike (MS)</u>	<u>Preparation Blank (PB)</u>
Gamma	SCAQC-4958-LC1	SCAQC-4958-LD1		SCAQC-4958-PB

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LO401114 1/19

ANALYTICAL LABORATORY SERVICES REQUEST & CHAIN OF CUSTODY RECORD

PROJECT/CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION			SAMPLE INFORMATION		
Project: CAU 167	BN Org #: B502	Send Report to: Reed Podaris	Phone: 702-295-0847	Fax: 702-295-7761	M/S: NTS306	Sampling Site: CAU 167		
Charge Number: 5B03MH10		Turnaround: ☒ Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH)				The samples submitted contain (check):		
Project Manager: Jeff Smith		☒ Rush Preliminary by:				☐ Hazardous (list) -		
Phone: 702-295-7775	Fax: 702-295-7761	M/S: NTS306				☐ Radioactive (list) -		
						☐ Unknown contamination.		
						If known, identify contaminants.		
						This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.		
SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method		
SDG: (IH) Valled	(Non-Rad Env)	(Rad Env)						
Samples submitted are associated with a signed Project SOW ☒ Yes ☐ No								
Analyses entered here agree with the SOW ☒ Yes ☐ No ☐ N/A								
If not, identify the variation:								
Subcontract Lab(s) used for this work: NEL								
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	QC MS	MSD	Pres - Analysis eg. HCl - VOCs
059905V	12-9-04	0845	Soil	1	8oz			ice
LAST ITEM								
Custody Seal Intact? ☒ N None Temp 88 Condition when received good								
CUSTODY TRANSFER			Signature	Date/Time	Received by (print)	Signature	Date/Time	
Sampled/Relinquished (print)				1-9-04 1400	Locked in Refrig.		1-9-04 1400	
Reed J. Podaris				1-12-04 1015	Reed Podaris		1-12-04 1015	
ER fridge (locked)				1-12-04	CDCASTANEDA		1/12/04 @ 1034	
Reed Podaris				01/12/04 @ 1300	BAI Courier #		01/12/04 @ 1300	
CDCASTANEDA					S. Daines		1-12-04 1445	
PICK-UP from warehouse SD								

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NEL Laboratories, Las Vegas

Date: 15-Jan-04

CLIENT: Bechtel Nevada

Client Sample ID: 059905V

Lab Order: L0401114

Collection Date: 1/9/04 8:45:00 AM

Project: V2162

Lab ID: L0401114-001

Matrix: SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL EXTRACTABLE TPH		SW8015M				Analyst: FAS-L
Gasoline Range Organics (C8-C12)	ND	20		mg/Kg	1	1/13/04
Diesel Range Organics (C12-C22)	ND	20		mg/Kg	1	1/13/04
Oil Range Organics (C22-C34)	ND	50		mg/Kg	1	1/13/04
Total Petroleum Hydrocarbons	ND	20		mg/Kg	1	1/13/04
Surr: n-Octacosane	84.1	34.8-139		%REC	1	1/13/04

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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SAMPLE DELIVERY GROUP

V2332

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ANALYTICAL LABORATORY
SERVICES REQUEST & CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT/CLIENT INFORMATION				REPORT & TURNAROUND INFORMATION				SAMPLE INFORMATION			
Project: CAU 167	BN Org #: B502	Send Report to: Reed Poderis	Phone: 702-295-0847	Fax: 702-295-7761	M/S: NTS306	Sampling Site: CAU 167	The samples submitted contain (check):				
Charge Number: 5803MH50		Turnaround: ☒ Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH)	☐ Rush Preliminary by:	☐ 1 ☐ 2 ☐ 7 ☐ 14 ☐ 28 (Radiological Env)		☐ Hazardous (list) -					
Project Manager: Jeff Smith						☒ Radioactive (list) -					
Phone: 702-295-7775	Fax: 702-295-7761	M/S: NTS306									
SDG: (IH) <u>V2332</u> (Non-Rad Env) (Rad Env) Samples submitted are associated with a signed Project SOW ☒ Yes ☐ No Analyses entered here agree with the SOW ☒ Yes ☐ No ☐ N/A If not, identify the variation: Subcontract Lab(s) used for this work: <u>LIONVILLE</u>											
SAMPLE MANAGEMENT INFORMATION				CONTAINER				QC			
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	#	Est. Vol	MD	MSD	MSD	MSD	Pres - Analysis eg. HCl - VOCs	Pay Item, Analysis, Method
059905V1	10-6-2004	1000	Soil	2	8oz (ea)					ice	8.1
059905V2	10-6-2004	1005	Soil	2	8oz (ea)					ice	TPH Full Scan 8015
059905V3	10-6-2004	1010	Soil	2	8oz (ea)					ice	
059905V4	10-6-2004	1015	Soil	2	8oz (ea)					ice	
059905V5	10-6-2004	1020	Soil	2	8oz (ea)					ice	
059905V6	10-6-2004	1025	Soil	2	8oz (ea)					ice	
DUP C	10-6-2004		Soil	2	8oz (ea)					ice	
LAST 17 EN											
CUSTODY TRANSFER											
Sampled/Relinquished (print)				Signature				Date/Time			
Reed J. Poderis				Reed J. Poderis				10/6/04 12:40			
Mike Flapp				Mike Flapp				10/6/04 13:46			
Refer				Refer				10/7/04 8:20			
Mike Flapp				Mike Flapp				10/7/04 08:28			
CATHARINE CASTANEDA				CATHARINE CASTANEDA				10/7/04 13:00			

Lionville Laboratory, Inc.

GAS RANGE ORGANICS

Report Date: 10/22/04 14:05

RFW Batch Number: 0410L844

Client: BECHTEL NEVADA V2332

Work Order: 60052001001

Page: 1

Cust ID:	059905V1	059905V1	059905V2	059905V3	059905V4
RFW#:	001	001 MSD	002	003	004
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
D.F.:	1.00	1.00	1.00	1.00	1.00
Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

Fluorobenzene	76 %	72 %	65 %	71 %	62 %	49 %
Gasoline Range Organics (GRO)	30 U	63 %	47 %	30 U	30 U	30 U

Cust ID:	059905V5	059905V6	DUP C	TBLKRH	TBLKRH BS	TBLKRH BSD
RFW#:	005	006	007	04LVJA19-MB1	04LVJA19-MB1	04LVJA19-MB1
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

Fluorobenzene	53 %	51 %	73 %	101 %	104 %	103 %
Gasoline Range Organics (GRO)	29 U	30 U	30 U	30 U	108 %	110 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

10/22/04

Lionville Laboratory, Inc.

DIESEL RANGE ORGANICS BY GC

Report Date: 10/29/04 10:43

RFW Batch Number: 04101844

Client: BECHTEL NEVADA V2332 Work Order: 60052001001 Page: 1

Sample Information	Cust ID:	059905V1	059905V2	059905V3	059905V4	059905V5	059905V6
	RFW#:	001	002	003	004	005	006
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	10.0	5.00	10.0	100	20.0	20.0
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	p-Terphenyl	65 %	80 %	79 %	D %	D %	D %
	Diesel Range Organics	210000 B	230000 B	500000 B E	0.16E+08 B	0.13E+08 B E	6300000 B E
	Motor Oil Range Organics	250000 B	3500000 B	5200000 B E	0.16E+08 B	0.13E+08 B E	6600000 B E

Sample Information	Cust ID:	DUP C	DUP C	DUP C	BLK	BLK BS
	RFW#:	007	007 MS	007 MSD	04LE1286-MB1	04LE1286-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	5.00	5.00	5.00	1.00	1.00
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	p-Terphenyl	81 %	73 %	89 %	88 %	80 %
	Diesel Range Organics	340000 B	D %	D %	36000	73 %
	Motor Oil Range Organics	540000 B	450000 B	610000 B	61000	90000

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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Lionville Laboratory, Inc.

PCBs by GC

Report Date: 10/25/04 13:28

RFW Batch Number: 04101844

Client: BECHTEL NEVADA V2332

Work Order: 60052001001

Page: 1

Cust ID: 059905V1 059905V2 059905V3 059905V4 059905V5 059905V6

Sample Information
 RFW#: 001 SOIL 002 SOIL 003 SOIL 004 SOIL 005 SOIL 006 SOIL
 Matrix: SOIL SOIL SOIL SOIL SOIL SOIL
 D.F.: 10.0 1.00 10.0 10.0 1.00 1.00
 Units: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG

Surrogate: Tetrachloro-m-xylene	D	%	144 *	%	D	%	D	%	70	%	86	%
Decachlorobiphenyl	D	%	140 *	%	D	%	D	%	67	%	92	%
Aroclor-1016	340	U	34	U	340	U	340	U	34	U	34	U
Aroclor-1221	340	U	34	U	340	U	340	U	34	U	34	U
Aroclor-1232	340	U	34	U	340	U	340	U	34	U	34	U
Aroclor-1242	340	U	34	U	340	U	340	U	34	U	34	U
Aroclor-1248	340	U	34	U	340	U	340	U	34	U	34	U
Aroclor-1254	490		150		860		340	U	46		55	
Aroclor-1260	340	U	34	U	340	U	340	U	34	U	34	U

Cust ID: DUP C DUP C DUP C PBLKYH PBLKYH BS

Sample Information
 RFW#: 007 SOIL 007 MS 007 MSD 04LE1266-MB1 04LE1266-MB1
 Matrix: SOIL SOIL SOIL SOIL SOIL
 D.F.: 10.0 1.00 1.00 1.00 1.00
 Units: UG/KG UG/KG UG/KG UG/KG UG/KG

Surrogate: Tetrachloro-m-xylene	D	%	103	%	110	%	120 *	%	101	%
Decachlorobiphenyl	D	%	106	%	104	%	110	%	92	%
Aroclor-1016	340	U	104	%	106	%	33	U	100	%
Aroclor-1221	340	U	34	U	34	U	33	U	33	U
Aroclor-1232	340	U	34	U	34	U	33	U	33	U
Aroclor-1242	340	U	34	U	34	U	33	U	33	U
Aroclor-1248	340	U	34	U	34	U	33	U	33	U
Aroclor-1254	700		I		I		33	U	33	U
Aroclor-1260	340	U	I	%	I	%	33	U	93	%

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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SAMPLE DELIVERY GROUP

V2376

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SERVICES REQUEST & CHAIN OF CUSTODY RECORD

ANALYTICAL LABORATORY

Page 1 of 1

PROJECT/CLIENT INFORMATION			REPORT & TURNAROUND INFORMATION			SAMPLE INFORMATION			
Project: CAU 167	BN Org #: B502	Send Report to: Reed Poderis	Phone: 702-295-0847	Fax: 702-295-7761	M/S: NTS306	Sampling Site: CAU 167	The samples submitted contain (check):		
Charge Number: 5B03MH50		Turnaround: ☒ Standard - 14 days IH, 28 days Non-rad Env, 45 Days Rad Env, (IH)				☐ Hazardous (list) -			
Project Manager: Jeff Smith		Rush Preliminary by: ☐ 1 ☐ 2 ☐ 7 ☐ 14 ☐ 14 (non-Rad Env) ☐ 28 (Radiological Env)				☒ Unknown contamination.			
Phone: 702-295-7775	Fax: 702-295-7761	M/S: NTS306				If known, identify contaminants. This information will ensure compliance with applicable regulations and allow for the safe handling of the sample materials.			
SAMPLE MANAGEMENT INFORMATION						Pay Item, Analysis, Method			
SDG: (IH) V2376 (Non-Rad Env) (Rad Env)						10.53			
Samples submitted are associated with a signed Project SOW ☒ Yes ☐ No						TPH			
Analyses entered here agree with the SOW ☒ Yes ☐ No ☐ N/A						Full Scan			
If not, identify the variation: _____						8015			
Subcontract Lab(s) used for this work: LIONVILLE									
ID/DESCRIPTION	SAMPLING DATE	TIME	MATRIX	CONTAINER #	Est. Vol	MD	MS	QC	Pres - Analysis eg. HCl - VOCs
059905V8	12-7-2004	1012	Soil	1	8oz (ea)				ice
059905V9	12-7-2004	1017	Soil	1	8oz (ea)				ice
059905V10	12-7-2004	1020	Soil	1	8oz (ea)				ice
059905V11	12-7-2004	1025	Soil	1	8oz (ea)				ice
059905V12	12-7-2004	1420	Soil	1	8oz (ea)				ice
DUP D	12-7-2004		Soil	1	8oz (ea)				ice
LAST ITEM									
CUSTODY TRANSFER									
Sampled/Relinquished (print)	Signature		Date/Time		Received by (print)		Signature		Date/Time
Reed J. Poderis Mile F1040	M. J. F1040		12/18/04 1304		C. CASTANEDA		C. Castaneda		12/18/04 @ 1304
C. CASTANEDA	C. Castaneda		12/19/04 @ 1300		Food Ex #		790361461033		12/19/04 @ 1300
	Food Ex		12/10/04/0950		N. Smith		N. Smith		12/10/04/0950

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Lionville Laboratory, Inc.

DIESEL RANGE ORGANICS BY GC

Report Date: 01/07/05 14:54

RFW Batch Number: 0412L417

Client: BECHTEL NEVADA V2376

Work Order: 60052001001

Page: 1

Cust ID: 059905V8 059905V8 059905V8 059905V9 059905V9 059905V10

Sample Information
RFW#: 001
Matrix: SOIL
D.F.: 1.00 ug/kg
Units: ug/kg

001 MS SOIL 1.00 ug/kg
001 MSD SOIL 1.00 ug/kg
002 SOIL 1.00 ug/kg
002 DL SOIL 10.0 ug/kg
003 SOIL 1.00 ug/kg

p-Terphenyl 115 % 94 % 101 % 92 % D % 95 %
=====fl=====fl=====fl=====fl=====fl=====fl
Diesel Range Organics 34000 40 % 76 % 320000 NA 14200 U
Motor Oil Range Organics 51000 NS NS E 380000 23000

Cust ID: 059905V11

059905V12

DUP D

BLK

BLK BS

Sample Information
RFW#: 004
Matrix: SOIL
D.F.: 1.00 ug/kg
Units: ug/kg

004 SOIL 1.00 ug/kg
005 SOIL 1.00 ug/kg
006 SOIL 1.00 ug/kg
04LE1537-MB1 SOIL 1.00 ug/kg
04LE1537-MB1 SOIL 1.00 ug/kg

p-Terphenyl 94 % 98 % 105 % 92 % 101 %
=====fl=====fl=====fl=====fl=====fl=====fl
Diesel Range Organics 13800 U 14000 U 14200 U 12000 U 94 %
Motor Oil Range Organics 19000 16000 14000 J 12000 U NS

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

1/15/05

Lionville Laboratory, Inc.

GAS RANGE ORGANICS

RFW Batch Number: 0412L417 Client: BECHTEL NEVADA V2376 Work Order: 60052001001 Page: 1 Report Date: 12/20/04 16:22

Cust ID: 059905V8		059905V9		059905V10		059905V11		059905V12		DUP D	
Sample Information	RFW#:	001	002	003	004	005				006	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL				SOIL	
	D.F.:	1.00	1.00	1.00	1.00	1.00				1.00	
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG				UG/KG	
Fluorobenzene		71 %	78 %	64 %	70 %	55 %				59 %	
Gasoline Range Organics (GRO)		29 U	30 U	28 U	29 U	29 U				29 U	

TBLKSI BS TBLKSI BSD

Cust ID: TBLKSI		TBLKSI BS		TBLKSI BSD	
Sample Information	RFW#:	04LVJC14-MB1	04LVJC14-MB1	04LVJC14-MB1	
	Matrix:	SOIL	SOIL	SOIL	
	D.F.:	1.00	1.00	1.00	
	Units:	UG/KG	UG/KG	UG/KG	
Fluorobenzene		101 %	103 %	100 %	
Gasoline Range Organics (GRO)		30 U	106 %	109 %	

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

APPENDIX B

**SECTORED HOUSEKEEPING
SITE CLOSURE VERIFICATION FORMS**

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Sectored Housekeeping Site Closure Verification Form

Closure Verification Date: 12/07/2004

CAU Number: 167

CAS Number: 05-99-05

CAS Description: Combat Tank; Radioactive Materials

Sector Designation: NTS Sector C

Housekeeping Site General Location: Frenchman Flat

Elevation: 940 meters (m)

Northing: 4,073,275 m (UTM Zone 11)

Easting: 594,201 m (UTM Zone 11)

Latitude: 36.80062

Longitude: -115.94405

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to 5-01 Road. Continue north on 5-01 Road to 5-03 Road. Turn right (east) on 5-03 Road and proceed 1.2 miles to a dirt trail that leads to the site. The tank is visible from the road.

Waste Item(s) Originally at Site	Apparent Waste Type*
Possible TPH-Impacted Soil, staining noted.	None, stained areas were removed during sampling.

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Housekeeping Site Before Closure
(taken 07/10/2003)

Housekeeping Site After Closure
(taken 12/07/2004)

Current Site Description/Observations: Combat tank was relocated to Area 1 for training purposes. Approximately 40 cubic yards of TPH-impacted soil was removed, verification samples were collected, and the excavation was backfilled with clean fill and graded. An "A through K" risk assessment was made and included in the Closure Report.

☒ **No Further Action Required at Housekeeping Site**

Reed J. Poderis, CEM

Corrective Action Coordinator/Designee

Reed J. Poderis

Signature

12-07-2004

Date

Sector Housekeeping Site Closure Verification Form

Closure Verification Date: 07/10/2003

CAU Number: 167

CAS Number: 19-19-02

CAS Description: Trash Pit

Sector Designation: NTS Sector G

Housekeeping Site General Location: U19ab

Elevation: 1,828 meters (m)

Northing: 4,123,225 m (UTM Zone 11)

Easting: 559,739 m (UTM Zone 11)

Latitude: 37.25366

Longitude: -116.32636

Coordinate/Elevation Data Obtained from: North American Datum, 1927.

Site Access Route: Take Mercury Highway north to Pahute Mesa Road. Turn left (west) on Pahute Mesa Road and proceed to RSM 19-P69. Turn left (west) on the dirt road at RSM 19-P69 and proceed to the U-19ab Crater fence.

Waste Item(s) Originally at Site	Apparent Waste Type*
Drums in trash pit	None, drums previously removed.

* Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

Original Site Inventory Photograph
(Taken 11/19/1990)

Housekeeping Site After Closure
(taken 07/10/2003)

Current Site Description/Observations: No drums remained at this site during the Preliminary Assessment or the Bechtel Nevada closure activities. There is other debris present. However, the site is inaccessible by vehicle as the site is located within a potential crater area.

☒ **No Further Action Required at Housekeeping Site**

Reed J. Poderis, CEM

Corrective Action Coordinator/Designee

Reed J. Poderis
Signature

7-10-2003

Date

APPENDIX C:
NATIONAL ENVIRONMENTAL POLICY ACT
EVALUATION CHECKLIST

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**U.S. DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION NEVADA OPERATIONS OFFICE
NEPA ENVIRONMENTAL EVALUATION CHECKLIST**

FOLLOW ATTACHED PROCEDURES FOR COMPLETING CHECKLIST				Date <u>10/14/2003</u>			
A. Project/Activity Title (Attach a brief description of proposed project) CAUs 167, 210, 289 , 390, & 395: Housekeeping Sites Closure/Cleanup Activities <i>286 103 C 11/4/03</i>							
Project Location NTS, Various Areas				Proposed By (If other than NNSA/NV)			
NNSA/NV Line Management Organization Environmental Restoration Division				NNSA/NV Project/Program Manager Sabine Curtis			
Anticipated Start Date November 1, 2003				DOE/HQ Program Office (If applicable)			
ENVIRONMENTAL CONSIDERATIONS: If any phase of the project/activity involves any of the following considerations, check yes and explain in project description. See NV-16A for consideration guidelines and examples.							
Consideration	Yes	No	Unk	Consideration	Yes	No	Unk
1. Noise	☒			10. Liquid Effluents		☒	
2. Air Emissions		☒		11. Underground Storage/Septic Tanks		☒	
3. Explosives		☒		12. Utility Systems (PCBs)		☒	
4. Petroleum/Fuel Storage/Use	☒			13. Environmental Restoration Site	☒		
5. Pesticide/Herbicide Use		☒		14. Change in Existing Drainage Pattern		☒	
6. Hazardous/Toxic Substances	☒			15. Surface Disturbance/Excavation	☒		
7. Solid Waste	☒			16. Cultural/Historic Resources			☒
8. Mixed Waste	☒			17. Biological/Tortoise Resources			☒
9. Radioactive Materials	☒						
DO NOT TYPE OR WRITE BELOW THIS LINE. FOR ESHD USE ONLY.							
B. Is the project/activity included in the final NTS EIS and the ROD or other NEPA document? Yes <u> X </u> (complete Sections C, D, and E) No _____ (complete Sections D, E, and F)							
C. This project/activity is included in the NTS EIS/ROD (or other NEPA document) under the following section and page number: NTS EIS Volume 1, Appendix A, A.3.1.3 - Environmental Restoration Program; Industrial Sites Project							
D. Does the proposed project/activity require any local, state, or federal permits or notifications? Yes <u> X </u> No _____							
E. Does the proposed project/activity relate to the FFCA or FFACO agreements? Yes <u> X </u> No _____							
F. If, based on the project description and the preliminary environmental considerations noted above, the proposed action fits within a class of action listed in Subpart D of 10 CFR 1021, write in the space below, the paragraph number and short title from the appropriate table of contents of Subpart D, Appendix B, C, or D, for a CX, EA, or EIS. If the proposed action does not fit within any class of action, write "Not Listed" below.							
G. NEPA COMPLIANCE OFFICER DETERMINATION OR RECOMMENDATION: I have determined that the proposed action as described in Item A above, has been adequately addressed for the purpose of NEPA in the NTS EIS. No further analysis or documentation is required pursuant to NEPA.
_____ NNSA/NV NEPA Compliance Officer						<u>10/23/03</u> _____ Date	

CAUS 167, 210, 286, 390, & 395: HOUSEKEEPING SITES CLOSURE/CLEANUP ACTIVITIES

Project Description

The purpose of this project is to remove the various debris located at several Corrective Action Units (CAUs). All CAUs are housekeeping sites, located at the Nevada Test Site (NTS). CAU 167 is located in Areas 5, 18, and 19 and consists of four Corrective Action Sites (CASs). CAU 210 is located in Areas 10, 12 and 15 and consists of 4 CASs. CAU 286 is located in Areas 1, 2, 3, 4, and 6 and consists of twelve CASs. CAU 390 is located in Areas 9, 10, and 12 and consists of six CASs. CAU 395 is located in Area 19 and consists of ten CASs. A detailed list of the CASs and descriptions is provided in the FFACO (1996). Each CAU is listed below, with a brief description of the types of debris present in the CASs.

CAU 167

Includes approximately 40 boxes of rock cores, stained soil below a disabled combat tank, and a trash pit with metal and wood debris. Some of the rock cores and the soil below the combat tank are possibly radioactive.

CAU 210

Includes several empty metal cans and buckets and a large piece of scrap metal. The large piece of scrap metal may be radioactive.

CAU 286

Includes primarily pieces of lead shielding in various locations. A pile of concrete is also included. Some of the wastes may be radioactive. The lead material is hazardous. However, the majority of the lead material is salvageable.

CAU 390

Includes asphalt, paraffin wax, and tar spills. One drum with several gallons of unknown liquid is also included. Some of the waste may be radioactive and or hazardous/toxic.

CAU 395

Includes concrete, oil, and asphalt spills. Several spills of unidentified materials are also included. Some of the waste may be radioactive and or hazardous/toxic.

Environmental Considerations

1. Noise levels: Elevated noise levels may result from the operation of a backhoe and/or loader equipment. Personnel not directly involved with operation of this equipment will be kept back at least 15 feet while equipment is in use. The equipment operator will follow the instructions as directed in the Site Specific Health and Safety Plan.

4. Petroleum/Fuel Storage Use: Heavy equipment on site will use petroleum fuel. No fuel will be stored on site outside of the equipment. Absorbent pads will be used if equipment appears to be leaking petroleum.

6. Hazardous/Toxic Substances: Several sites contain lead, PCB or TPH-impacted and/or sanitary waste and soil. No other chemical hazards are known to exist. Personnel will be required to follow the safety procedures outlined in the Site Specific Health and Safety Plan and Job Hazard Analysis. Wastes will be disposed of either on the NTS or offsite, depending on analysis results.

7. Solid Waste: Any solid waste that may be generated from project activities will be disposed of at the NTS in a designated landfill.

8. Mixed Waste: Any waste which is classified as a mixed waste will be disposed of at the NTS in a approved mixed waste facility.

9. Radioactive Materials: Several sites are in a URMA, CA, or RMA. Radiologically-impacted soil and manufactured items in these areas may require disposal at either the Area 3 or Area 5 Radioactive Waste Management Site.

13. Environmental Restoration Site: These sites are included in the FFACO as Corrective Action Unit 176, 346, 350, 351, 352, and 523. (See Project Description).

15. Surface Disturbance/Excavation: Equipment will travel off-road on previously disturbed areas. Equipment will also be used to help remove surface debris. Minor excavations may be required to removed stained soil at spill locations. All excavations will be performed under the appropriate permit.

16. Cultural/Historic Resources: Archaeologists will evaluate and document these sites for historical value. Cultural surveys will be conducted as necessary at these sites prior to project activities.

17. Biological/Tortoise Resources: Biological pre-activity surveys may be required in areas where off-road travel or excavation will occur. Surveys will be conducted prior to any surface-disturbing activities.

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APPENDIX D

NEVADA ENVIRONMENTAL RESTORATION PROJECT DOCUMENT REVIEW SHEET

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NEVADA ENVIRONMENTAL RESTORATION PROJECT

DOCUMENT REVIEW SHEET

1. Document Title/Number: <u>Final Closure Report for Corrective Action Unit 167: Contaminated Materials and Trash Pits, Nevada Test Site, Nevada</u>		2. Document Date: <u>April 2004</u>	
3. Revision Number: <u>0</u>		4. Originator/Organization <u>Bechtel Nevada</u>	
5. Responsible NNSA/NSO ERP Project Mgr.: <u>Janet Appenzeller-Wing</u>		6. Date Comments Due: <u>June 11, 2004</u>	
7. Review Criteria <u>Federal Facility Agreement and Consent Order</u>		9. Reviewer's Signature _____	
8. Reviewer/Organization/Phone No.: <u>John Wong/NDEP/ (702) 486-2866</u>			

10. Comment Number/ Location	11. Type ^a	12. Comment	13. Comment Response	14. Accept
Comment 1 Section 2.2.1 Pages 4-5	M	<p>“Total petroleum hydrocarbons (TPH) and depleted uranium (DU, uranium-238) were detected at elevated levels. Please provide additional details pertaining to the samples collected. Indicate the depth at which the samples were collected, and the justification for not collecting verification samples (i.e., how can the NNSA ensure that the extent of contamination is defined/bounded).</p> <p>Also. Specify how the radiological impact will be assessed (i.e., the tank is in a posted area - how will NNSA determine the radiological impact attributable to the tank. Specify why the area is a posted radiological area and indicate the manner</p>	<p>Text has been added to the Section 2.2.1 to detail the depth of the soil samples and to better explain the sample results. Waste classification samples were collected from five locations at the base of the tank at a depth of 2-3 inches below ground surface (bgs). Two small stained areas directly beneath the rear of the tank were completely removed by the sampling. TPH results for the stained areas were below the action level. The sample collected from the left side of the tank contained high organic content, primarily fine plant roots and leaves. It was suspected that the organic material caused the TPH results to be slightly greater than the TPH action level. For this reason a second verification sample was collect form the bottom of the original sample site, at 4-5 inches bgs. Sample results did not exceed TPH the action level. Analytical results for all samples were less than the new U-238 action level of 63 pCi/g.</p> <p>The tank was used as a target for armor piercing DU ammunition and is known to be radiologically contaminated. This is why the tank is currently in a posted RMA. A thorough radiological survey of the tank was conducted and found no removable</p>	Yes

^aComment Types: M = Mandatory, S = Suggested.

		<p>in which NDEP will be notified of results once a radiological assessment of the area is completed (after the tank is removed and transferred to the Counter Terrorism Operation Support Group).</p> <p>Lastly since the tank is known to be contaminated with DU, will it present a radiological hazard to the area to which it will be transferred.</p>	<p>radioactive contamination; all contamination is fixed or contained within the tank. Once the tank is moved from its current location a radiological survey of the area will be performed to determine if that area can be deposited. Text has been added to the CR stating that a letter report detailing the results of the survey and any other closure activities will be prepared and submitted to the NDEP.</p> <p>The tank will be transferred to Area 1 where it will be placed in an exiting RMA under administrative controls. Prior to moving the tank, any bullet holes will be sealed with tape, any hatches secured, and any remaining mechanical fluids drained. By taking these precautions it is felt the tank will not present any additional radiological hazards to the Area 1 RMA.</p>
<p>Comment 2 Section 2.3.1 Page 5</p>	M	<p>Based on Table 1 and Section 2.3.1, six soil samples were collected around the tank (front and rear, left and right). Explain how the conclusion was reached that soil beneath the tank did not exceed action levels or PRGs for chemical and radiological constituents.</p>	<p>Yes</p> <p>The waste classification samples collected from locations immediately adjacent and around the tank showed no contamination above action levels. Text has been added to the Closure Report to state that once the tank has been moved to a new location the ground beneath the former tank location will be visually examined and field screened for both TPH and DU. If field screening indicates contamination is present above action levels, the area will be remediated by removal of soil, and verification samples collected and submitted for analysis.</p> <p>Also, after the tank has been removed, a radiological survey of the current RMA will be performed to determine if the area can be deposited. If the survey indicates that contaminated soil remains it will be removed and the remediated areas resurveyed. Survey and sample analytical results will verify that the closure criteria were met.</p> <p>The final disposition of the tank and any additional site closure activities will be documented in a letter report submitted to the NDEP.</p>

^aComment Types: M = Mandatory, S = Suggested.

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