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PROJECT COMPLETION REPORT; STORM WATER CONVEYANCE MODIFICATION AND PROPERTY LINE GRADING PROJECT; NEVADA ENVIRONMENTAL RESPONSE TRUST SITE; HENDERSON, NEVADA

February 9, 2017

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Dear Mr. Dong:

Ramboll Environ US Corporation (Ramboll Environ) is pleased to present this Project Completion Report documenting the Storm Water Conveyance Modification and Property Line Grading Project (the project) at the Nevada Environmental Response Trust (NERT or Trust) site (the Site; see Figure 1) in Henderson, Nevada. This report also details the soil excavations, off-site disposal, and characterization and confirmation sampling performed in the project area, and has been prepared to fulfill the reporting requirements of the Site Management Plan (SMP)[1] and as required by TIMET.

Background Information and Project Overview

Ramboll Environ contracted with S&B Christ Consulting, LLC (SBCC) to perform engineering design, general contracting, project management, and engineering oversight of the Storm Water Conveyance Modification and Property Line Grading Project [2] at the Site. SBCC, through their subcontractors, implemented the project, including demolition of a former stormwater outfall, construction of a new stormwater conveyance, excavation, disposal, and backfilling of soil, and grading of the land surface

[1] Ramboll Environ. 2015. Site Management Plan, Revision 2, Nevada Environmental Response Trust Site, Henderson, Nevada. July 17. Approved by NDEP August 8, 2015.
[2] SBCC. 2015. Storm Water Outfall Relocation and Property Line Grading, Nevada Environmental Response Trust Site, Henderson, Nevada. August 31. Approved by Clark County Building Department in July 2015.

at the Site. Soil excavated as part of the project was disposed of at the Apex Landfill in Clark County, Nevada.

Storm water from both the Tronox (Leach Plant and Unit Buildings 5 and 6 areas) and TIMET facilities historically flowed through an underground conveyance pipeline along the Trust-TIMET property line and exited at the end of a pipe along the property line, historically referred to as "Outfall 002". In 2014, TIMET performed grading activities along the Trust-TIMET property line on both the Trust and TIMET properties so that storm water would drain to their respective properties. Around that time, TIMET ceased using the storm water conveyance pipeline along the property line and ceased storm water discharge at the outfall. As part of the project and as further described below, a new storm water pipeline was tied into the existing storm water pipeline at approximately the same area as Outfall 002 so that storm water will be contained within and ultimately infiltrate on Trust property.

As a result of grading activities performed by TIMET along the Trust-TIMET property line to contain stormwater generated on TIMET property, several areas along the Trust-TIMET property line were identified by SBCC that required additional grading and compaction to reduce the potential for erosion. As a matter of efficiency and cost effectiveness, the project was designed to simultaneously address both the required additional grading and compaction along the Trust-TIMET property line due to TIMET's ongoing projects and the construction of the new storm water pipeline during one mobilization of construction crews and equipment.

Mobilization and implementation of the project began in February 2016. Grading and compaction activities along the Trust-TIMET property line were generally performed periodically during February and March 2016. Excavation for the new storm water pipeline construction was performed in February and March 2016 and the construction of the new storm water pipeline was performed in April 2016.

Initial Notification

In accordance with the SMP, Ramboll Environ provided the Trust and the Nevada Division of Environmental Protection (NDEP) the SMP-Required Notifications, Work Plan, Contingency Plan, and Construction Mitigation Measures Plan[3] (the "Initial Notification") for the project in December 2014. Although the Initial Notification was prepared in accordance with the previous version of the SMP (Revision 1)[4], the updates to the SMP in Revision 2 did not alter the notification, work plan, contingency plan, and construction mitigation plan detailed in the December 2014 Initial Notification.

Discolored Rip Rap at Storm Water Headwall

During project design, discolored rip rap rock was observed at the outfall of the existing storm water conveyance pipe and associated headwall. To expose the storm water conveyance pipe

[3] ENVIRON. 2014. SMP-Required Notifications, Work Plan, Contingency Plan, and Construction Mitigation Measures Plan for the Property Line Grading / Storm Water Outfall Relocation Project, Nevada Environmental Response Trust Site, Henderson, Nevada. December 17. Approved by NDEP December 26, 2014.

[4] Ramboll Environ. 2013. Site Management Plan, Revision 1, Nevada Environmental Response Trust Site, Henderson, Nevada. October. Approved by NDEP November 7, 2013.

and headwall, discolored rip rap and underlying soil needed to be excavated on both Trust and TIMET property. Prior to the excavation, and in accordance with the SMP, Ramboll Environ provided the Trust and NDEP the Notification and Work Plan for Excavation of Discolored Rip Rap[5] (the "Discolored Rip Rap Excavation Notification"). One four-point composite sample (Discolored Rip Rap Characterization Sample, NERT-SO-COMPOSITE) was collected on February 9, 2016 from the rip rap and underlying soil and submitted to TestAmerica Laboratories, Inc. (TestAmerica) under chain-of-custody procedures. This sample was analyzed for the full suite of analyses provided in Table 3 of the SMP. The results of the laboratory analyses from the Discolored Rip Rap Characterization Sample are provided in Table 1 of this report and were used to pre-profile the material for disposal at Republic Services' Apex Landfill in Clark County, Nevada. Results of the soil characterization sample and disposal of the discolored rip rap and underlying soil are discussed below in the section titled *Soil Stockpile Characterization, Disposal, and Reuse*.

Discoveries of Additional Discolored Soil

Trench Sidewall

During the implementation of excavation activities, on February 25, 2016, discolored soil was discovered along the sidewall of the trench excavation for the future placement of the storm water pipeline extension. The layer of discolored soil consisted primarily of black sand and silt and was located approximately 2 feet below ground surface (bgs). This layer was approximately 1 foot thick and spanned approximately 45 feet along the trench sidewall. A small sample of the discolored soil was placed in a sealed plastic bag and a photo ionization detector (PID) was used to monitor the vapor which may have accumulated in the bag. The PID reading was 0 parts per million by volume (ppmV). A four-point composite sample (Trenching Sidewall Characterization Sample, NERT-CS-01) was collected from the discolored soil and submitted to TestAmerica under chain-of-custody procedures and analyzed for the full suite of analyses provided in Table 3 of the SMP. The results of the Trenching Sidewall Characterization Sample were compared to NDEP 2015 worker basic comparison levels (BCLs) or Site-specific screening levels (see Table 1). Concentrations of benzo(a)pyrene, naphthalene, phenanthrene, arsenic, lead, and manganese exceeded BCLs or Site-specific screening levels.

While creating proper safety slopes along the trench sidewalls, all discolored soil was removed from the sidewall and placed in a roll-off bin and covered with plastic for eventual disposal in accordance with the SMP. For the purpose of waste profiling, an additional four-point composite sample was collected from the roll-off bin (Bin Characterization Sample, BIN1-20160406; See Table 2). Results of the waste profile sample and disposal of the discolored soil from the trench sidewall are discussed below in the section titled *Soil Stockpile Characterization, Disposal, and Reuse*.

[5] Ramboll Environ. 2016. Notification and Work Plan for Excavation of Discolored Rip Rap, Storm Water Conveyance Modification and Property Line Grading Project, Nevada Environmental Response Trust Site, Henderson, Nevada. February 20. Approved by NDEP February 22, 2016.

On February 26, 2016, on behalf of the Trust, John Pekala of Ramboll Environ contacted the NDEP 24-hour spill reporting line (Spill Report no. 160226-02) and provided email notification to the Trust regarding the discovery of discolored soil in the trenching sidewall. Ramboll Environ was later informed that, during a subsequent discussion between NDEP and the Trust, the initial spill notification would be sufficient for any additional discolored soil uncovered through the remainder of the project.

Outfall Area Excavation

Excavation of the discolored rip rap and underlying soil at the outfall area, as outlined in the Discolored Rip Rap Excavation Notification, proceeded on March 8, 2016. In accordance with the SMP, all excavated material was stockpiled on double-layered plastic and covered with plastic. Upon removing the discolored rip rap and underlying soil, darker discolored soil was observed at the base of outfall's headwall, approximately 1 to 2 feet below the bottom of the existing storm water pipe. The additional discolored soil consisted primarily of black sand and silt and was left in place during the placement of rip rap in 2014.[6] The additional discolored soil was believed to be a different, distinct layer compared to the discolored rip rap and underlying discolored soil referenced in the Discolored Rip Rap Excavation Notification. A small sample of the discolored soil was placed in a sealed plastic bag and field screened with a PID. The PID reading was 0 ppmV. In total, the visible discolored soil was approximately 11 to 12 feet bgs in an area the width of the outfall's headwall (approximately 20 feet wide) that extended approximately 30 feet north from the headwall. A four-point composite sample (Base Characterization Sample, NERT-SO-COMPOSITE-03) was collected from the discolored soil on March 9, 2016, submitted to TestAmerica under chain-of-custody procedures, and analyzed for the full suite of analyses provided in Table 3 of the SMP. The results of the Base Characterization Sample were compared to NDEP 2015 worker BCLs or Site-specific screening levels (see Table 1). In addition, the Base Characterization Sample was also analyzed using the toxicity characteristic leaching procedure (TCLP) for metals and results were compared to regulatory values[7] for characterization of hazardous waste. Concentrations of hexachlorobenzene and arsenic exceeded BCLs or Site-specific screening levels. None of the TCLP metal concentrations exceeded hazardous waste regulatory levels.

Furthermore, an approximately 15 feet wide and approximately 4 feet thick section of discolored soil was observed at the base of the sidewall on the northern side of the excavation. Based on discussions with NDEP, Tronox, and TIMET personnel and a review of historical aerial photography, the discolored soil observed in the northern sidewall of the excavation appears to be a cross-section of the drainage ditch which historically ran north and then east from the storm water conveyance pipeline.

[6] According to Kyle Hansen, a representative for the Trust performing oversight of TIMET's grading activities along the property line in 2014, the additional black discolored soil was left in place and rip rap was placed by contractors working for TIMET.

[7] 40 CFR 261, appendix II, 1993 ed., as amended by 58 FR 46040, Aug 31, 1993.

Remedial Actions Notification and Exploratory Excavations

In accordance with the SMP, the Notification and Work Plan for Remedial Actions of Discolored Soil[8] ("Remedial Actions Notification") was submitted to NDEP on March 12, 2016. The Remedial Actions Notification outlined the characterization, excavation, and disposal activities proposed for the additional discolored soil located in the project area.

The following exploratory excavations were conducted between March 15 and 18, 2016, to determine the vertical and lateral extent of discolored soil at and in the vicinity of the storm water conveyance outfall:

- North of the outfall's headwall, soil was excavated to a depth of approximately 18 feet bgs in an area bound by the Trust-TIMET property boundary to the east, the headwall to the south, approximately 20 feet west of the Trust-TIMET property boundary, and approximately 30 feet north of the headwall.
- South of the outfall's headwall, soil was excavated to a depth of approximately 7 feet bgs in an area bound by the existing storm water pipeline to the east, the headwall to the north, approximately 15 feet west of the Trust-TIMET property boundary, and approximately 20 feet south of the headwall.

No excavations of discolored soil were conducted on TIMET property or underneath the existing storm water pipe, although soil was excavated on TIMET property in order to properly slope the excavation sidewalls and maintain safe working conditions. Discolored soil generally became less discolored as the excavations moved vertically deeper and laterally away from outfall, transitioning from a black sand and silt to a grey sand and silt. Accordingly, excavated soil was segregated into black or grey stockpiles and stockpiled on double-layered plastic and covered with plastic. The soil was segregated to potentially reduce disposal costs in the event that the two types of soil would be characterized differently by soil stockpile characterization sampling. Soil stockpile characterization sampling is discussed below in the section titled *Soil Stockpile Characterization, Disposal, and Reuse*.

On March 18, 2016, all excavation activities were suspended due to concerns from TIMET regarding the stability of a storm water conveyance rip rap channel and storage pond located on TIMET property immediately east of the project area. A meeting between NDEP and the Trust at the project area was also conducted on March 18, 2016. Based on the extent of discolored soil in the project area observed by NDEP and the Trust, it was determined that no additional remedial excavations would be performed in the project area and the only remaining excavation would be in the immediate vicinity of the headwall for the installation of the project-required manhole structure.

[8] Ramboll Environ. 2016. Notification and Work Plan for Remedial Actions of Discolored Soil, Storm Water Conveyance Modification and Property Line Grading Project, Nevada Environmental Response Trust Site, Henderson, Nevada. March 12. Approved by NDEP March 16, 2016.

TIMET Work Plan

Prior to the restart of on-site construction activities and per TIMET's request, a Work Plan for Construction Activities at the Trust-TIMET Property Line[9] ("TIMET Work Plan") was submitted to TIMET on March 25, 2016. The TIMET Work Plan outlined the minimum project-required tasks to be performed on TIMET property including safety sloping of the discolored rip rap and underlying soil excavation at the outfall, manhole construction, storm drain pipeline installation, excavation backfill, geosynthetic clay liner (GCL) repair, grading, and Trust-TIMET property boundary fence replacement. The TIMET Work Plan also outlined the TIMET-requested modification to the project design plans which, instead of demolition and complete removal of the outfall's headwall, resulted in leaving the headwall in place and the construction of a manhole adjacent to the north side of the headwall which was structurally connected to the headwall with rebar.

Furthermore, the TIMET Work Plan was prepared in conjunction with an access agreement between Ramboll Environ and TIMET, dated March 21, 2016, that required personnel from Ramboll Environ and all subcontractors to sign a written acknowledgment of the access agreement prior to accessing the TIMET property.

Upon receiving approval from TIMET regarding the TIMET Work Plan, final excavation activities commenced on April 4, 2016, for the construction of the manhole that was tied into the headwall.

Confirmation Sampling

After project excavation activities were completed on April 6, 2016, eight confirmation soil samples were collected from excavated areas in accordance with the SMP. As discussed in the Remedial Actions Notification, the results of the SMP-required characterization samples collected on February 26, 2016, and March 9, 2016, from the trench sidewall excavation and outfall excavation, respectively (see *Discoveries of Additional Discolored Soil*), were used to determine which analyses from Table 3 of the SMP would be required for the confirmation samples collected. All confirmation samples were submitted to Analytical Support Services for Environmental Technologies (ASSET) Laboratories under chain-of-custody procedures. The analytical results of the confirmation soil samples are summarized in Table 1 and laboratory analytical reports are provided as Attachment A. The locations of the confirmation samples are shown on Figure 2.

- Samples Base01 (SO-SW-BASE01-20160406) and Base02 (SO-SW-BASE02-20160406) were collected at depths of 18 and 10 feet bgs, respectively, from the excavation adjacent to the north of the headwall. These samples were collected as base confirmation samples for the discolored soil discovered and excavated north of the headwall. Based on the results of the prior Base Characterization Sample collected on March 9, 2016, organochlorine pesticides, volatile organic compounds (VOCs), and inorganic anions were not analyzed in the

[9] Ramboll Environ. 2016. Work Plan for Construction Activities at the Trust-TIMET Property Line, Storm Water Conveyance Modification and Property Line Grading Project, Nevada Environmental Response Trust Site, Henderson, Nevada. March 25.

confirmation samples. Confirmation samples Base01 and Base02 reported no concentrations above BCLs or Site-specific screening levels with the exception of arsenic in sample Base02.

- Samples North (SO-SW-NORTH-20160406), South (SO-SW-SOUTH-20160406), and West01 (SO-SW-WEST01-20160406) were collected at depths of 6, 15, and 13 feet bgs, respectively from the sidewalls of the excavation adjacent to the north of the headwall. These samples were collected as sidewall confirmation samples for the discolored soil discovered and excavated north of the headwall. Based on the results of the prior Base Characterization Sample collected on March 9, 2016, organochlorine pesticides, VOCs, and inorganic anions were not analyzed in the confirmation samples. Confirmation samples North, South, and West01 reported no concentrations above BCLs or Site-specific screening levels with the exception of Aroclor-1260, arsenic, lead and manganese in sample North.
- Sample West02 (SO-SW-WEST02-20160406) was collected at a depth of 7 feet bgs on the western sidewall of the trench excavation for the future placement of the storm water pipeline extension. This sample was collected as a sidewall confirmation sample for the discolored soil discovered and excavated from the sidewall of the trench excavation. Based on the results of the prior Trenching Sidewall Characterization Sample collected on February 26, 2016, organochlorine pesticides, VOCs, and inorganic anions were not analyzed in the confirmation sample. Confirmation sample West02 reported no concentrations above BCLs or Site-specific screening levels.
- Sample TR-Sidewall (TR-SIDEWALL-20160406) was collected at a depth of 3 feet bgs on the eastern sidewall of the trench excavation for the future placement of the storm water pipeline extension. This sample was collected as a sidewall confirmation sample for the discolored soil discovered and excavated from the sidewall of the trench excavation. Based on the results of the prior Trenching Sidewall Characterization Sample collected on February 26, 2016, organochlorine pesticides, VOCs, and inorganic anions were not analyzed in the confirmation sample. Confirmation sample TR-Sidewall reported no concentrations above BCLs or Site-specific screening levels with the exception of arsenic.
- Sample TR-Base (TR-BASE-20160406) was collected at a depth of 4 feet bgs on the eastern sidewall of the trench excavation for the future placement of the storm water pipeline extension. This sample was collected as a base confirmation sample for the discolored soil discovered and excavated from the sidewall of the trench excavation. Based on the results of the prior Trenching Sidewall Characterization Sample collected on February 26, 2016, organochlorine pesticides, VOCs, and inorganic anions were not analyzed in the confirmation sample. Confirmation sample TR-Base reported no concentrations above BCLs or Site-specific screening levels.

Per Ramboll Environ's agreement with TIMET, and as outlined in the TIMET Work Plan, no confirmation samples were collected on TIMET property.

Given TIMET's concerns over the depth of the excavation and its proximity to one of their ponds, additional excavation was not performed. As such, contaminants remain in place on the NERT Site in excess of BCLs or Site-specific screening levels within this area in the excavation base (sample Base02) and sidewalls (samples North and TR-Sidewall).

Creation of New Excavation Control Area

As discussed above, confirmation samples Base02, North, and TR-Sidewall reported one or more concentrations greater than BCLs or Site-specific screening levels. Per the agreement between NDEP and the Trust during excavation activities, no further excavation was performed in the project areas. However, an excavation control area (ECA), referred to as ECA C19, has been created around the footprint of the trench sidewall and outfall excavation areas. Based on the extent of discolored soils observed during the project implementation and the results of the soil sample analytical testing provided herein, the boundaries of ECA C19 were established and are shown in Figure 2.

Soil Stockpile Characterization, Disposal, and Reuse

Two rounds of soil characterization sampling and disposal were conducted during the project. The first round of soil characterization sampling and disposal was performed for excavated discolored rip rap and underlying soil as specified by the Discolored Rip Rap Excavation Notification. The second round of soil characterization sampling and disposal was performed for additional discolored soil excavated from the trench sidewall and outfall areas, as specified in the Remedial Actions Notification.

Discolored Rip Rap and Underlying Soil

As discussed above in *Initial Notification*, discolored rip rap and underlying soil was sampled for waste pre-profiling purposes prior to excavation in an attempt to expedite the disposal process. The four-point composite sample (Discolored Rip Rap Characterization Sample, NERT-SO-COMPOSITE) was collected on February 9, 2016, submitted to TestAmerica under chain-of-custody procedures, and analyzed for the full suite of analyses provided in Table 3 of the SMP. The results of the analyses were compared to NDEP 2015 worker BCLs or Site-specific screening levels (see Table 1). All concentrations were less than BCLs or Site-specific screening levels with the exception of arsenic. Between March 16 and 28, 2016, approximately 558.1 tons of material from the discolored rip rap and underlying soil excavation was transported by LVP and disposed of at Apex Landfill as non-hazardous waste.

Additional Discolored Soil

As discussed above in the section titled *Discoveries of Additional Discolored Soil*, additional discolored soil was discovered along the sidewall of the trench excavation for the future storm water pipeline extension. While creating proper safety slopes along the trench sidewalls, all excavated material was stockpiled on double-layered plastic and covered with plastic in accordance with the SMP. One four-point composite sample (Bin Characterization Sample, BIN1-20160406) was collected on April 6, 2016, submitted to ASSET Laboratories under chain-of-custody procedures, and analyzed for the analytical suite provided in Table 3 of the SMP. The Bin Characterization Sample was also analyzed using the TCLP for all metals, VOCs, and SVOCs with regulatory values for characterization of hazardous waste. The results of the analyses were compared to NDEP 2015 worker BCLs or Site-specific screening levels (see Table 2), as well as the TCLP regulatory values. All concentrations were less than BCLs or Site-specific screening levels with the exception of arsenic. None of the TCLP concentrations exceeded hazardous waste regulatory levels.

As discussed above in the section titled *Remedial Action Notification and Exploratory Excavations*, additional discolored soil excavated at the base and in the vicinity of the outfall was segregated into black or grey stockpiles. The soil was segregated so that the two types of soil could be characterized separately. On April 6, 2016, two four-point characterization samples were collected from the grey soil stockpiles (Characterization Samples 1A and 1B, STOCKPILE1A-20160406 and STOCKPILE1B-20160406, respectively) and two four-point characterization samples were collected from the black soil stockpiles (Characterization Samples 2A and 2B, STOCKPILE2A-20160406 and STOCKPILE2B-20160406, respectively). The characterization samples were submitted to ASSET Laboratories under chain-of-custody procedures and analyzed for the full suite of analyses provided in Table 3 of the SMP. The characterization samples were also analyzed using the TCLP for all metals, VOCs, and SVOCs with regulatory values for characterization of hazardous waste. The results of the analyses were compared to NDEP 2015 worker BCLs or Site-specific screening levels (see Table 2) as well as the TCLP regulatory values.

Results of Characterization Samples 1A and 1B for the grey soil stockpiles reported all concentrations were less than BCLs, Site-specific screening levels, and TCLP regulatory values. In accordance with the SMP, the soil was not disposed because none of the detected constituent concentrations exceeded BCLs or Site-specific screening levels. The grey soil stockpiles were consolidated to one soil stockpile located on the west side of decommissioned pond MN-1, left uncovered, and sprayed with a soil binder in accordance with the NERT Site-wide Dust Control Work Plan[10] for future on-site reuse. The volume of the soil stockpile is approximately 250 cubic yards. The location and approximate footprint of the soil stockpile are shown on Figure 3.

Results of Characterization Samples 2A and 2B for the black soil stockpiles reported hexachlorobenzene, arsenic, lead, and/or manganese greater than respective NDEP 2015 worker BCLs or Site-specific screening levels. None of the TCLP concentrations exceeded hazardous waste regulatory levels. On June 20, 2016, approximately 422.7 tons of material was transported by LVP and disposed of at Apex Landfill as non-hazardous waste.

Laboratory analytical reports for soil characterization samples are provided in Attachment A. Landfill disposal documentation is provided in Attachment B.

Project Completion

Following the completion of discolored soil excavation and confirmation soil sampling, the remaining project construction, including construction of the manholes, placement, connection, and backfill of the storm drain pipeline extension, and final grading, were performed in April 2016. With the exception of leaving the outfall headwall in place and constructing a manhole adjacent to the north side of the headwall, as discussed in the TIMET Work Plan, all on-site construction was performed according to the design plans. The As-Built Construction Drawings are provided in Attachment C.

[10] Tetra Tech. 2015. NERT Site-wide Dust Control Work Plan, Henderson, Nevada. July 10.

GCL Liner Repair

The GCL that was removed from TIMET property during excavation activities was replaced on May 5, 2016, prior to final grading activities on TIMET property and the replacement of the Trust-TIMET property boundary fencing. The GCL was installed at a depth of approximately 18 inches in all areas on the TIMET property where it was removed, up to the Trust-TIMET property boundary, and was installed to TIMET's specifications (provided to the Trust by Mr. John Hefley of TIMET on March 16, 2016). The installation and material specifications of the GCL are provided in Attachment D.

Closing

Ramboll Environ has prepared this Project Completion Report to document and summarize the construction activities, soil excavations, off-site disposal, and characterization and confirmation sampling performed as part of the Storm Water Conveyance Modification and Property Line Grading Project. Please contact John Pekala at (602) 734-7710 or jpekala@ramboll.com if you have any questions concerning this report.

Yours sincerely,

John M. Pekala, PG
Senior Manager
CEM #2347, expires 9/20/2018

Allan J. DeLorme, PE
Principal

TABLES

Table 1
Characterization and Confirmation Soil Sample Results
Storm Water Conveyance Modification and Property Line Grading Project
NERT Site, Henderson, Nevada

Parameter of Interest	Chemical	Discolored Rip Rap Characterization Sample NERT-SO-COMPOSITE 2/9/2016	Trenching Sidewall Characterization Sample NERT-CS-01 2/26/2016	Base Characterization Sample NERT-SO-COMPOSITE-03 3/9/2016	Confirmation Sample TR-Sidewall TR-SIDEWALL-20160406 4/6/2016	Confirmation Sample TR-Base TR-BASE-20160406 4/6/2016	Confirmation Sample North SO-SW-NORTH-20160406 4/6/2016	Confirmation Sample South SO-SW-SOUTH-20160406 4/6/2016	Confirmation Sample West01 SO-SW-WEST01-20160406 4/6/2016	Confirmation Sample West02 SO-SW-WEST02-20160406 4/6/2016	Confirmation Sample Base01 SO-SW-BASE01-20160406 4/6/2016	Confirmation Sample Base02 SO-SW-BASE02-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
Organochlorine Pesticides	Aldrin	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	0.15	mg/kg	BCL	C	--
	Alpha-BHC	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	334	mg/kg	BCL	N	--
	Beta-BHC	**0.0073**	**0.040**	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	66.7	mg/kg	BCL	N	--
	Delta-BHC	ND < 0.021	ND < 0.023	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	334	mg/kg	BCL	N	--
	Gamma-BHC (Lindane)	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	11.1	mg/kg	BCL	N	--
	Alpha-chlordane	NA	NA	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Gamma-chlordane	NA	NA	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Tech-Chlordane	ND < 110	ND < 110	ND < 0.0085	NA	NA	NA	NA	NA	NA	NA	NA	8.9	mg/kg	BCL	C	--
	4,4'-DDD	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	13.5	mg/kg	BCL	C	--
	4,4'-DDE	**0.0078**	**0.056**	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	9.5	mg/kg	BCL	C	--
	4,4'-DDT	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	9.5	mg/kg	BCL	C	--
	Dieldrin	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	0.16	mg/kg	BCL	C	--
	Endosulfan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,500	mg/kg	BCL	N	--
	Endosulfan I	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Endosulfan II	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Endosulfan Sulfate	ND < 0.021	ND < 0.023	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Endrin	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	275	mg/kg	BCL	N	--
	Endrin Aldehyde	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Endrin Ketone	ND < 0.011	ND < 0.011	ND < 0.0020	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Heptachlor	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	0.57	mg/kg	BCL	C	--
	Heptachlor Epoxide	ND < 0.011	ND < 0.011	ND < 0.0010	NA	NA	NA	NA	NA	NA	NA	NA	0.28	mg/kg	BCL	C	--
	Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Methoxychlor	ND < 0.011	ND < 0.011	ND < 0.0085	NA	NA	NA	NA	NA	NA	NA	NA	4,580	mg/kg	BCL	N	--
	Mirex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Toxaphene	ND < 0.430	ND < 0.450	ND < 0.085	NA	NA	NA	NA	NA	NA	NA	NA	2.33	mg/kg	BCL	C	--
Organochlorine Herbicides	2,4-Dichlorophenoxyacetic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	2,4,5-TP (Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	2,4,5-Trichlorophenoxyacetic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
PAHs	Acenaphthene (by 8270C)	ND < 0.350	**11**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	2,360	mg/kg	BCL	N	--
	Acenaphthene (by 8270C-SIM)	ND < 0.067	ND < 0.070	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Acenaphthylene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	147	mg/kg	BCL	sat	--
	Acenaphthylene (by 8270C-SIM)	ND < 0.067	ND < 0.070	**0.012**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Anthracene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	9,080	mg/kg	BCL	N	--
	Anthracene (by 8270C-SIM)	ND < 0.067	ND < 0.070	**0.022**	ND <0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Benz(a)anthracene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Benz(a)anthracene (by 8270C-SIM)	ND < 0.067	**0.046 J**	**0.11**	**0.019**	ND < 0.005	**0.026**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Benzo(a)pyrene (by 8270C)	ND < 0.350	**80**	ND < 0.200	ND < 0.2	ND < 0.330	ND < 2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	0.323	mg/kg	BCL	C	--
	Benzo(a)pyrene (by 8270C-SIM)	ND < 0.067	**0.035 J**	**0.13**	**0.015**	ND < 0.005	ND < 0.050	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Benzo(b)fluoranthene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Benzo(b)fluoranthene (by 8270C-SIM)	**0.010 J**	**0.120**	**0.34**	**0.040**	ND < 0.005	**0.070**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Benzo(g,h,i)perylene (by 8270C)	ND < 0.350	**34**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	38,900	mg/kg	BCL	N	--
	Benzo(g,h,i)perylene (by 8270C-SIM)	ND < 0.067	**0.051 J**	**0.045**	**0.0065**	ND < 0.005	ND < 0.050	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Benzo(k)fluoranthene (by 8270C)	ND < 0.350	**20**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	32.3	mg/kg	BCL	C	--
	Benzo(k)fluoranthene (by 8270C-SIM)	ND < 0.067	**0.040 J**	**0.082**	**0.012**	ND < 0.005	ND < 0.050	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Chrysene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	323	mg/kg	BCL	C	--
	Chrysene (by 8270C-SIM)	**0.012 J**	**0.110**	**0.24**	**0.026**	ND < 0.005	**0.027**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Dibenz(a,h)anthracene (by 8270C)	ND < 0.440	ND < 21	ND < 0.200	ND < 0.200	ND < 0.330	ND < 2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	ND < 0.2	0.323	mg/kg	BCL	C	--
	Dibenz(a,h)anthracene (by 8270C-SIM)	ND < 0.067	**0.011 J**	**0.021**	ND < 0.005	ND < 0.005	ND < 0.050	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Fluoranthene (by 8270C)	ND < 0.350	**20**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	33,700	mg/kg	BCL	N	--
	Fluoranthene (by 8270C-SIM)	**0.019 J**	**0.160**	**0.22**	**0.099**	ND < 0.005	**0.053**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Fluorene (by 8270C)	ND < 0.350	**18**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3,460	mg/kg	BCL	N	--
	Fluorene (by 8270C-SIM)	ND < 0.067	ND < 0.070	**0.0065**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					

Table 1
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Parameter of Interest	Chemical	Discolored Rip Rap Characterization Sample NERT-SO-COMPOSITE 2/9/2016	Trenching Sidewall Characterization Sample NERT-CS-01 2/26/2016	Base Characterization Sample NERT-SO-COMPOSITE-03 3/9/2016	Confirmation Sample TR-Sidewall TR-SIDEWALL-20160406 4/6/2016	Confirmation Sample TR-Base TR-BASE-20160406 4/6/2016	Confirmation Sample North SO-SW-NORTH-20160406 4/6/2016	Confirmation Sample South SO-SW-SOUTH-20160406 4/6/2016	Confirmation Sample West01 SO-SW-WEST01-20160406 4/6/2016	Confirmation Sample West02 SO-SW-WEST02-20160406 4/6/2016	Confirmation Sample Base01 SO-SW-BASE01-20160406 4/6/2016	Confirmation Sample Base02 SO-SW-BASE02-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
PAHs (Continued)	Indeno(1,2,3-cd)pyrene (by 8270C)	ND < 0.350	ND <17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 3.33	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Indeno(1,2,3-cd)pyrene (by 8270C-SIM)	ND < 0.067	**0.036 J**	**0.047**	**0.0065**	ND < 0.005	ND < 0.050	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Naphthalene (by 8270C)	ND < 0.350	**45**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	15.6	mg/kg	BCL	C	--
	Naphthalene (by 8270C-SIM)	ND < 0.067	ND < 0.070	**0.032**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Naphthalene (by 8260B)	ND < 0.0053	**ND < 0.0056**	ND < 0.005	NA	NA	NA	NA	NA	NA	NA	NA					
	Phenanthrene (by 8270C)	ND < 0.350	**150**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	24.5	mg/kg	BCL	sat	--
	Phenanthrene (by 8270C-SIM)	ND < 0.067	**0.086**	**0.21**	**0.087**	ND < 0.005	**0.019**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Pyrene (by 8270C)	ND < 0.350	**320**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	20,800	mg/kg	BCL	N	--
	Pyrene (by 8270C-SIM)	ND < 0.067	**0.096**	**0.22**	**0.094**	ND < 0.005	**0.046**	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
SVOCs	Butyl benzyl phthalate	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	240	mg/kg	BCL	sat	--
	o-Cresol	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	m-Cresol	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	p-Cresol	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	Cresols (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Di-N-Butyl phthalate	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	91,600	mg/kg	BCL	N	--
	Diethyl phthalate	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	100,000	mg/kg	BCL	max	--
	2,4-Dinitrotoluene	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	Dimethyl phthalate	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	100,000	mg/kg	BCL	max	--
	bis(2-Ethylhexyl)phthalate	ND < 0.350	ND < 17	**0.410**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	183	mg/kg	BCL	C	--
	Hexachlorobenzene[c]	ND < 0.350	ND < 17	**3.1**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	**1.2**	1.6	mg/kg	BCL	C	--
	Hexachloroethane	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2-Methylnaphthalene (by 8270C)	ND < 0.350	**150**	**0.025**	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2-Methylnaphthalene (by 8270C-SIM)	NA	NA	NA	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Nitrobenzene	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	13.6	mg/kg	BCL	C	--
	Octachlorostyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Di-N-Octyl phthalate	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 3.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	11,000	mg/kg	--	N	--
	Pentachlorophenol	NA	NA	NA	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.7	ND < 1.7	ND < 1.6	ND < 1.7	ND < 1.6	--	mg/kg	--	--	--
	Pyridine	NA	NA	ND < 1.7	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.7	ND < 1.7	ND < 1.6	ND < 1.7	ND < 1.6	886	mg/kg	BCL	N	--
	2,4,5-Trichlorophenol	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2,4,6-Trichlorophenol	NA	NA	NA	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
VOCs	Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Benzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	4.23	mg/kg	BCL	C	--
	Bromobenzene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	695	mg/kg	BCL	sat	--
	Bromochloromethane	ND < 0.0053	ND < 0.0056	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Bromodichloromethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	3.37	mg/kg	BCL	C	--
	Bromoform	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	325	mg/kg	BCL	C	--
	Bromomethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	39.2	mg/kg	BCL	N	--
	2-Butanone	ND < 0.011	ND < 0.011	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	34,100	mg/kg	BCL	sat	--
	N-Butylbenzene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	237	mg/kg	BCL	sat	--
	sec-Butylbenzene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	223	mg/kg	BCL	sat	--
	tert-Butylbenzene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	393	mg/kg	BCL	sat	--
	Carbon tetrachloride	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	3.86	mg/kg	BCL	C	--
	Chlorobenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	695	mg/kg	BCL	sat	--
	Chloroethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1,250	mg/kg	BCL	C	--

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VOCs (Continued)	Chloroform	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1.56	mg/kg	BCL	C	--
	Chloromethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	8.05	mg/kg	BCL	C	--
	2-Chlorotoluene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	511	mg/kg	BCL	sat	--
	4-Chlorotoluene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	cis-1,2-Dichloroethene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	741	mg/kg	BCL	N	--
	cis-1,3-Dichloropropene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	1,2-Dibromo-3-chloropropane	ND < 0.0053	ND < 0.0056	ND < 0.010	NA	NA	NA	NA	NA	NA	NA	NA	0.0529	mg/kg	BCL	C	--
	Dibromochloromethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	6.09	mg/kg	BCL	C	--
	Dibromomethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	191	mg/kg	BCL	N	--
	1,2-Dichlorobenzene (by 8260B)	ND < 0.0021	ND < 0.0022	ND < 0.0050	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	373	mg/kg	BCL	sat	--
	1,2-Dichlorobenzene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	NA	NA	NA	NA	NA	NA	NA	NA					
	1,3-Dichlorobenzene (by 8260B)	ND < 0.0021	ND < 0.0022	ND < 0.0050	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	373	mg/kg	BCL	sat	--
	1,3-Dichlorobenzene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	NA	NA	NA	NA	NA	NA	NA	NA					
	1,4-Dichlorobenzene (by 8260B)	ND < 0.0021	ND < 0.0022	ND < 0.0050	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	13.7	mg/kg	BCL	C	--
	1,4-Dichlorobenzene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	NA	NA	NA	NA	NA	NA	NA	NA					
	Dichlorodifluoromethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	340	mg/kg	BCL	sat	--
	1,1-Dichloroethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	21.5	mg/kg	BCL	C	--
	1,2-Dichloroethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	2.25	mg/kg	BCL	C	--
	1,1-Dichloroethene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1,280	mg/kg	BCL	N	--
	trans-1,2-Dichloroethene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	548	mg/kg	BCL	N	--
	1,2-Dichloropropane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	4.32	mg/kg	BCL	C	--
	1,3-Dichloropropane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	64.6	mg/kg	BCL	N	--
	2,2-Dichloropropane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	1,1-Dichloropropene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	trans-1,3-Dichloropropene	ND < 0.0021	ND < 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.7	mg/kg	BCL	C	--
	Ethyl t-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Ethylbenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	19.7	mg/kg	BCL	C	--
	Ethylene dibromide	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	0.18	mg/kg	BCL	C	--
	Hexachlorobutadiene (by 8260B)	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	32.9	mg/kg	BCL	C	--
	Hexachlorobutadiene (by 8270C)	ND < 0.350	ND < 17	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,930	mg/kg	BCL	N	--
	Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Isopropylbenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	647	mg/kg	BCL	sat	--
	4-Isopropyltoluene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	647	mg/kg	BCL	sat	--
	Methyl tert butyl ether	NA	NA	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	209	mg/kg	BCL	C	--
	4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17,200	mg/kg	BCL	sat	--
	Methylene chloride	ND < 0.021	ND < 0.022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	59.1	mg/kg	BCL	C	--
	N-Propylbenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	237	mg/kg	BCL	sat	--
	Styrene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1,730	mg/kg	BCL	sat	--
	t-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21,300	mg/kg	BCL	sat	--
	1,1,1,2-Tetrachloroethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	20.1	mg/kg	BCL	C	--
	1,1,2,2-Tetrachloroethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	2.57	mg/kg	BCL	C	--

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VOCs (Continued)	Tetrachloroethene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	3.52	mg/kg	BCL	C	--
	Toluene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	521	mg/kg	BCL	sat	--
	1,2,3-Trichlorobenzene	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	1,2,4-Trichlorobenzene (by 8260B)	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	125	mg/kg	BCL	C	--
	1,2,4-Trichlorobenzene (by 8270C)	ND < 0.350	ND < 17	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330					
	1,1,1-Trichloroethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1,390	mg/kg	BCL	sat	--
	1,1,2-Trichloroethane	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	5.55	mg/kg	BCL	C	--
	Trichloroethene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	6.01	mg/kg	BCL	C	--
	Trichlorofluoromethane	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1,980	mg/kg	BCL	sat	--
	1,2,3-Trichloropropane	ND < 0.011	ND < 0.011	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	0.12	mg/kg	BCL	C	--
	1,2,4-Trimethylbenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	604	mg/kg	BCL	N	--
	1,3,5-Trimethylbenzene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	246	mg/kg	BCL	N	--
	Vinyl Chloride	ND < 0.0053	ND < 0.0056	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	1.97	mg/kg	BCL	C	--
	m-Xylene	ND < 0.0042	ND < 0.0045	ND < 0.010	NA	NA	NA	NA	NA	NA	NA	NA	214	mg/kg	BCL	sat	--
	o-Xylene	ND < 0.0021	ND < 0.0022	ND < 0.0050	NA	NA	NA	NA	NA	NA	NA	NA	282	mg/kg	BCL	sat	--
	p-Xylene	ND < 0.0042	ND < 0.0045	ND < 0.010	NA	NA	NA	NA	NA	NA	NA	NA	375	mg/kg	BCL	sat	--
	Xylenes, total	NA	NA	ND < 0.015	NA	NA	NA	NA	NA	NA	NA	NA	214	mg/kg	BCL	sat	--
TPH	Oil Range Organics (TPH-oil)	**99**	**45**	**180**	**16**	ND < 10	**190**	ND < 10	ND < 10	ND < 9.9	ND < 10	ND < 9.9	--	mg/kg	--	--	--
	TPH-diesel	ND < 11	**12**	**110**	**12**	ND < 10	**150**	ND < 10	ND < 10	ND < 9.9	ND < 10	ND < 9.9	--	mg/kg	--	--	--
	TPH-gasoline	ND < 0.420	ND < 0.440	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	--	mg/kg	--	--	--
PCBs	Aroclor-1016	ND < 0.110	ND < 0.110	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	32.8	mg/kg	BCL	C	--
	Aroclor-1221	ND < 0.110	ND < 0.110	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.330	1.15	mg/kg	BCL	C	--
	Aroclor-1232	ND < 0.110	ND < 0.110	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	1.15	mg/kg	BCL	C	--
	Aroclor-1242	ND < 0.110	ND < 0.110	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	1.15	mg/kg	BCL	C	--
	Aroclor-1248	ND < 0.110	ND < 0.110	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	1.15	mg/kg	BCL	C	--
	Aroclor-1254	ND < 0.110	**1.1**	**0.43**	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	1.15	mg/kg	BCL	C	--
	Aroclor-1260	ND < 0.110	ND < 0.110	**0.43**	ND < 0.016	ND < 0.016	**1.4**	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.017	ND < 0.016	1.15	mg/kg	BCL	C	--
	Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.15	mg/kg	BCL	C	--
General Chemistry	Cyanide	ND < 0.53	**1.9**	**2.01**	NA	NA	NA	NA	NA	NA	NA	NA	27.9	mg/kg	BCL	N	--
	Perchlorate	**5.9**	**7.9**	**290**	**31**	**19**	**5**	**0.1**	**0.11**	**0.69**	**0.12**	**0.77**	908	mg/kg	BCL	N	--
Dioxins/Furans	2,3,7,8-TCDD	**2.3**	**9.4**	**31**	**11**	ND < 1.0	**13**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	**17**	--	pg/g	--	--	--
	2,3,7,8-TCDF	**56**	**240**	**1,100**	**340**	ND < 1.0	**440**	**2.4**	ND < 1.0	ND < 1.0	ND < 1.0	**740**	--	pg/g	--	--	--
	1,2,3,7,8-PeCDD	**6.7**	**26**	**91**	**40**	ND < 5.0	**46**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**59**	--	pg/g	--	--	--
	1,2,3,7,8-PeCDF	**96**	**450**	**1,500**	**500**	ND < 5.0	**640**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**960**	--	pg/g	--	--	--
	2,3,4,7,8-PeCDF	**47**	**220**	**870**	**300**	ND < 5.0	**400**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**580**	--	pg/g	--	--	--
	1,2,3,4,7,8-HxCDD	**5.0 J**	**21**	**70**	**24**	ND < 5.0	**41**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**42**	--	pg/g	--	--	--
	1,2,3,6,7,8-HxCDD	**11**	**51**	**160**	**52**	ND < 5.0	**92**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**94**	--	pg/g	--	--	--
	1,2,3,7,8,9-HxCDD	**9.5**	**49**	**120**	**47**	ND < 5.0	**81**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**91**	--	pg/g	--	--	--
	1,2,3,4,7,8-HxCDF	**190**	**790**	**3,000**	**780**	ND < 5.0	**1,400**	**8.3**	ND < 5.0	ND < 5.0	ND < 5.0	**2,100**	--	pg/g	--	--	--
	1,2,3,6,7,8-HxCDF	**130**	**570**	**2,200**	**570**	ND < 5.0	**990**	**6.0**	ND < 5.0	ND < 5.0	ND < 5.0	**1,500**	--	pg/g	--	--	--

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Dioxins/Furans (Continued)	2,3,4,6,7,8-HxCDF	**33**	**140**	**1,200**	**310**	ND < 5.0	**490**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**760**	--	pg/g	--	--	--
	1,2,3,7,8,9-HxCDF	**17**	**91**	**930**	**230**	ND < 5.0	**340**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**610**	--	pg/g	--	--	--
	1,2,3,4,6,7,8-HpCDD	**53**	**230**	**500**	**150**	ND < 5.0	**350**	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	**350**	--	pg/g	--	--	--
	1,2,3,4,6,7,8-HpCDF	**470**	**2,100**	**10,000**	**1,700**	ND < 5.0	**4,100**	**25.0**	ND < 5.0	ND < 5.0	ND < 5.0	**5,700**	--	pg/g	--	--	--
	1,2,3,4,7,8,9-HpCDF	**190**	**900**	**3,300**	**670**	ND < 5.0	**1,400**	**9.1**	ND < 5.0	ND < 5.0	ND < 5.0	**2,300**	--	pg/g	--	--	--
	OCDD	**200**	**550**	**1,000**	**210**	ND < 10.0	**980**	ND < 10.0	ND < 10.0	ND < 10.0	ND < 10.0	**420**	--	pg/g	--	--	--
	OCDF	**2,800**	**9,400**	**220,000**	**5,200**	ND < 10.0	**22,000**	**66.0**	**11**	ND < 10.0	**41**	**17,000**	--	pg/g	--	--	--
	TCDD TEQ[e]	**79**	**345**	**1,510.3**	**418.1**	**< 85.0**	**651.0**	**7.9 J**	**5.1 J**	**< 85.0**	**5.1 J**	**961.2**	2,700[f]	pg/g	Site-Specific	--	--
Metals	Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	519	mg/kg	BCL	N	--
	Arsenic	**7.5**	**190**	**13**	**31**	**3.6**	**430**	**4.7**	**4.8**	**3.6**	**5.1**	**12**	7.2[g]	mg/kg	Background	--	--
	Barium	**370**	**4,800**	**5,600**	**1,100**	**130**	**4,400**	**160**	**160**	**170**	**130**	**380**	100,000	mg/kg	BCL	max	--
	Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,540	mg/kg	BCL	N	--
	Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Cadmium	**0.72**	ND < 28	**1.3**	**1.3**	ND < 1.0	**3.8**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	1,270	mg/kg	BCL	N	--
	Chromium (III)	**17**	**140**	**170**	**29**	**8.8**	**150**	**13**	**13**	**9.6**	**14**	**27**	100,000	mg/kg	BCL	max	--
	Chromium (VI)	**0.75 J**	**12**	**34**	**2.0**	ND < 0.20	**52**	ND < 0.20	ND < 0.20	ND < 0.20	**0.21**	**2.6**	1,230	mg/kg	BCL	C	--
	Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	385	mg/kg	BCL	N	--
	Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48,200	mg/kg	BCL	N	--
	Iron	**18,000**	**20,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Lead	**25**	**2,100**	**260**	**320**	**6.5**	**1,400**	**7.6**	**5.8**	**7.4**	**6.0**	**82**	800	mg/kg	BCL	--	--
	Lead (organic)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Magnesium	**6,800**	**7,900**	**4,700**	**12,000**	**6,200**	**1,500**	**9,100**	**9,400**	**5,700**	**7,500**	**6,700**	100,000	mg/kg	BCL	max	--
	Manganese	**6,100**	**60,000**	**4,300**	**13,000**	**410**	**180,000**	**7,000**	**1,400**	**520**	**9,800**	**20,000**	28,100	mg/kg	BCL	N	--
	Mercury	**0.11**	**5.9**	**0.88**	**0.18**	ND < 0.10	**1.4**	ND < 0.10	ND < 0.10	ND < 0.10	ND < 0.10	**0.14**	208	mg/kg	BCL	N	--
	Molybdenum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,490	mg/kg	BCL	N	--
	Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,700	mg/kg	BCL	N	--
	Platinum	ND < 0.48	**0.24 J**	ND < 5.4	NA	NA	NA	NA	NA	NA	NA	NA	649	mg/kg	BCL	N	--
	Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Selenium	ND < 4.8	ND < 170	**7.0**	**3.7**	ND < 1.0	**45**	**1.1**	ND < 1.0	ND < 1.0	**2.4**	**8.8**	6,490	mg/kg	BCL	N	--
	Silver	ND < 3.2	ND < 83	ND < 1.0	ND < 1.0	ND < 1.0	**20**	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	**1.2**	6,490	mg/kg	BCL	N	--
	Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Strontium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.7	mg/kg	BCL	--	--
	Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Titanium	**670**	**650**	**3,500**	**380**	**430**	**480**	**430**	**480**	**460**	**410**	**440**	100,000	mg/kg	BCL	max	--
	Tungsten	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,730	mg/kg	BCL	N	--
	Uranium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,880	mg/kg	BCL	N	--
	Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,490	mg/kg	BCL	N	--

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Metals (continued)	Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
Inorganic Anions	Bromide	ND < 5.3	ND < 5.6	ND < 2.57	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Chloride	**160**	**540**	**21.8**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Fluoride	ND < 5.3	ND < 5.6	**5.02**	NA	NA	NA	NA	NA	NA	NA	NA	55,000	mg/kg	BCL	N	--
	Nitrate	**16**	**73**	**2.05**	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Nitrite	ND < 1.6	ND < 1.7	ND < 1.28	NA	NA	NA	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Orthophosphate	ND < 5.3	**6.4**	**11.9**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Sulfate	**770**	**1,300**	**275**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Sulfide	ND < 43	ND < 45	ND < 31.3	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
Asbestos	Long amphibole protocol structures	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	1 or more	protocol structures	Site-Specific	--	--
	Long chrysotile protocol structures	ND	**<1%**	ND	NA	NA	NA	NA	NA	NA	NA	NA	More than 5	protocol structures	Site-Specific	--	--
Miscellaneous	pH	**7.72**	**7.71**	**7.6**	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--
	Ignitability	**Not Ignitable**	**Not Ignitable**	**Not Ignited**	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--
TCLP Herbicides	2,4-Dichlorophenoxyacetic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	10.0
	2,4,5-TP (Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	1.0
TCLP Metals	Arsenic	NA	NA	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	5.0
	Barium	NA	NA	**0.88**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	100.0
	Cadmium	NA	NA	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	1.0
	Chromium	NA	NA	**0.15**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	5.0
	Chromium (VI)	NA	NA	**0.16**	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	--
	Lead	NA	NA	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	5.0
	Mercury	NA	NA	ND < 0.0005	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.2
	Selenium	NA	NA	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	1.0
	Silver	NA	NA	ND < 0.050	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	5.0
TCLP Pesticides	Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.03
	Endrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.02
	Heptachlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.008
	Heptachlor Epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.008
	Lindane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.4
	Methoxychlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	10.0
	Toxaphene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
TCLP VOCs	Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	100.0
	Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	6.0
	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	7.5
	1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	1,1-Dichloroethelene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.7
	2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.7
	Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5

Table 1
Characterization and Confirmation Soil Sample Results
Storm Water Conveyance Modification and Property Line Grading Project
NERT Site, Henderson, Nevada

Parameter of Interest	Chemical	Discolored Rip Rap Characterization Sample NERT-SO-COMPOSITE 2/9/2016	Trenching Sidewall Characterization Sample NERT-CS-01 2/26/2016	Base Characterization Sample NERT-SO-COMPOSITE-03 3/9/2016	Confirmation Sample TR-Sidewall TR-SIDEWALL-20160406 4/6/2016	Confirmation Sample TR-Base TR-BASE-20160406 4/6/2016	Confirmation Sample North SO-SW-NORTH-20160406 4/6/2016	Confirmation Sample South SO-SW-SOUTH-20160406 4/6/2016	Confirmation Sample West01 SO-SW-WEST01-20160406 4/6/2016	Confirmation Sample West02 SO-SW-WEST02-20160406 4/6/2016	Confirmation Sample Base01 SO-SW-BASE01-20160406 4/6/2016	Confirmation Sample Base02 SO-SW-BASE02-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
TCLP VOCs (cont)	Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.2
TCLP SVOCs	o-Cresol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	m-Cresol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	p-Cresol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	Cresols (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.13
	Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.13
	Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	3.0
	Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	2.0
	Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	100.0
	Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	5.0
	2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	400.0
	2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	mg/L	--	--	2.0

[a] - From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 13, February 2015. Values for the worker are the lower of the indoor and outdoor worker soil BCLs. Any user of Table 1 should use the most current version of the BCLs. Please check the NDEP website (at http://ndep.nv.gov/bmi/technical.htm) for the most current version of the BCLs.

[b] - BCL based on mixed isomer.

[c] - Hexachlorobenzene analyzed using EPA Method 8270D.

[d] - 100 mg/kg total TPH value used for screening.

[e] - TCDD equivalents based on WHO 2005 TEFs for the 17 dioxin and furan congeners.

[f] - Site-specific value: from NDEP, Letter to Tronox LLC re: Response to: Results of Bioaccessibility Study for Dioxin/Furans in Soil, Tronox LLC, Henderson, Nevada (Revised), May 25, 2010. (NDEP, 2010a).

[g] - Based on regional background concentrations as approved by NDEP on August 20, 2010 (NDEP, 2010d).

[h] - TCLP source: 40 Code of Federal Regulations (CFR) 261, appendix II, 1993 ed., as amended by 58 FR 46040, Aug 31, 1993.

Red shading indicates concentrations exceeds NDEP 2015 Worker BCL or Site-Specific Screening Level.

BCL = Basic comparison level
C = Cancer
J = Approximate value
N = Noncancer
NA = Not applicable
sat = soil saturation
max = risk-based value is greater than 100,000 mg/kg
-- = undefined or no value
mg/kg = milligrams per kilogram
NERT = Nevada Environmental Response Trust
pCi/g = picoCuries per gram
PAHs = Polycyclic aromatic hydrocarbons
PCBs = Polychlorinated biphenyls
TEF = Toxicity equivalent favor
TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TCLP = Toxicity characteristic leaching procedure
TPH = Total petroluem hydrocarbons
SVOCs = Semi-volatile organic compounds
VOCs = Volatile organic compounds
WHO = World Health Organization

Table 2
Soil Stockpile Characterization Sample Results
Storm Water Conveyance Modification and Property Line Grading Project
NERT Site, Henderson, Nevada

Parameter of Interest	Chemical	Bin Characterization Sample BIN1-20160406 4/6/2016	Characterization Sample 1A STOCKPILE1A-20160406 4/6/2016	Characterization Sample 1B STOCKPILE1B-20160406 4/6/2016	Characterization Sample 2A STOCKPILE2A-20160406 4/6/2016	Characterization Sample STOCKPILE2B-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
Organochlorine Pesticides	Aldrin	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	0.15	mg/kg	BCL	C	--
	Alpha-BHC	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	334	mg/kg	BCL	N	--
	Beta-BHC	**0.0067**	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	66.7	mg/kg	BCL	N	--
	Delta-BHC	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	334	mg/kg	BCL	N	--
	Gamma-BHC (Lindane)	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	11.1	mg/kg	BCL	N	--
	Alpha-chlordane	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	--	mg/kg	--	--	--
	Gamma-chlordane	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	--	mg/kg	--	--	--
	Tech-Chlordane	ND < 0.0085	ND < 0.0084	ND < 0.0084	ND < 0.0085	ND < 0.0085	8.9	mg/kg	BCL	C	--
	4,4'-DDD	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	13.5	mg/kg	BCL	C	--
	4,4'-DDE	**0.043**	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	9.5	mg/kg	BCL	C	--
	4,4'-DDT	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	9.5	mg/kg	BCL	C	--
	Dieldrin	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	0.16	mg/kg	BCL	C	--
	Endosulfan	NA	NA	NA	NA	NA	5,500	mg/kg	BCL	N	--
	Endosulfan I	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	--	mg/kg	--	--	--
	Endosulfan II	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	--	mg/kg	--	--	--
	Endosulfan Sulfate	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	--	mg/kg	--	--	--
	Endrin	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	275	mg/kg	BCL	N	--
	Endrin Aldehyde	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	--	mg/kg	--	--	--
	Endrin Ketone	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	ND < 0.0020	--	mg/kg	--	--	--
	Heptachlor	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	0.57	mg/kg	BCL	C	--
	Heptachlor Epoxide	ND < 0.0010	ND < 0.00099	ND < 0.00099	ND < 0.0010	ND < 0.0010	0.28	mg/kg	BCL	C	--
	Kepone	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Methoxychlor	ND < 0.0085	ND < 0.0084	ND < 0.0084	ND < 0.0085	ND < 0.0085	4,580	mg/kg	BCL	N	--
	Mirex	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Toxaphene	ND < 0.085	ND < 0.084	ND < 0.084	ND < 0.085	ND < 0.085	2.33	mg/kg	BCL	C	--
Organochlorine Herbicides	2,4-Dichlorophenoxyacetic acid	ND < 0.035	ND < 0.036	ND < 0.160	ND < 0.370	ND < 0.360	--	mg/kg	--	--	--
	2,4,5-TP (Silvex)	ND < 0.0035	ND < 0.0036	ND < 0.0016	ND < 0.037	ND < 0.036	--	mg/kg	--	--	--
	2,4,5-Trichlorophenoxyacetic acid	ND < 0.0035	ND < 0.0036	ND < 0.0016	**0.0801**	**0.183**	--	mg/kg	--	--	--
PAHs	Acenaphthene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	2,360	mg/kg	BCL	N	--
	Acenaphthene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Acenaphthylene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	147	mg/kg	BCL	sat	--
	Acenaphthylene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Anthracene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	9,080	mg/kg	BCL	N	--
	Anthracene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Benz(a)anthracene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Benz(a)anthracene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Benzo(a)pyrene (by 8270C)	ND < 0.200	ND < 0.200	ND < 0.200	ND < 0.200	ND < 0.200	0.323	mg/kg	BCL	C	--
	Benzo(a)pyrene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Benzo(b)fluoranthene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Benzo(b)fluoranthene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Benzo(g,h,i)perylene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	38,900	mg/kg	BCL	N	--
	Benzo(g,h,i)perylene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Benzo(k)fluoranthene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	32.3	mg/kg	BCL	C	--
	Benzo(k)fluoranthene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Chrysene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	323	mg/kg	BCL	C	--
	Chrysene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Dibenz(a,h)anthracene (by 8270C)	ND < 0.200	ND < 0.200	ND < 0.200	ND < 0.200	ND < 0.200	0.323	mg/kg	BCL	C	--
	Dibenz(a,h)anthracene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Fluoranthene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	33,700	mg/kg	BCL	N	--
	Fluoranthene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Fluorene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3,460	mg/kg	BCL	N	--
	Fluorene (by 8270C-SIM)	NA	NA	NA	NA	NA					

Table 2
Soil Stockpile Characterization Sample Results
Storm Water Conveyance Modification and Property Line Grading Project
NERT Site, Henderson, Nevada

Parameter of Interest	Chemical	Bin Characterization Sample BIN1-20160406 4/6/2016	Characterization Sample 1A STOCKPILE1A-20160406 4/6/2016	Characterization Sample 1B STOCKPILE1B-20160406 4/6/2016	Characterization Sample 2A STOCKPILE2A-20160406 4/6/2016	Characterization Sample STOCKPILE2B-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
PAHs (Continued)	Indeno(1,2,3-cd)pyrene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	3.23	mg/kg	BCL	C	--
	Indeno(1,2,3-cd)pyrene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Naphthalene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	15.6	mg/kg	BCL	C	--
	Naphthalene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Naphthalene (by 8260B)	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005					
	Phenanthrene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	24.5	mg/kg	BCL	sat	--
	Phenanthrene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Pyrene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	20,800	mg/kg	BCL	N	--
	Pyrene (by 8270C-SIM)	NA	NA	NA	NA	NA					
SVOCs	Butyl benzyl phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	240	mg/kg	BCL	sat	--
	o-Cresol	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	m-Cresol	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	p-Cresol	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	Cresols (Total)	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Di-N-Butyl phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	91,600	mg/kg	BCL	N	--
	Diethyl phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	100,000	mg/kg	BCL	max	--
	2,4-Dinitrotoluene	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	Dimethyl phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	100,000	mg/kg	BCL	max	--
	bis(2-Ethylhexyl)phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	183	mg/kg	BCL	C	--
	Hexachlorobenzene[c]	ND < 0.330	ND < 0.330	**0.440**	**2.8**	**5.7**	1.6	mg/kg	BCL	C	--
	Hexachloroethane	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2-Methylnaphthalene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2-Methylnaphthalene (by 8270C-SIM)	NA	NA	NA	NA	NA					
	Nitrobenzene	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	13.6	mg/kg	BCL	C	--
	Octachlorostyrene	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Di-N-Octyl phthalate	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	11,000	mg/kg	--	N	--
	Pentachlorophenol	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.6	--	mg/kg	--	--	--
	Pyridine	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.6	ND < 1.6	886	mg/kg	BCL	N	--
	2,4,5-Trichlorophenol	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
	2,4,6-Trichlorophenol	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	--	mg/kg	--	--	--
VOCs	Acetone	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Benzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	4.23	mg/kg	BCL	C	--
	Bromobenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	695	mg/kg	BCL	sat	--
	Bromochloromethane	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Bromodichloromethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	3.37	mg/kg	BCL	C	--
	Bromoform	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	325	mg/kg	BCL	C	--
	Bromomethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	39.2	mg/kg	BCL	N	--
	2-Butanone	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	34,100	mg/kg	BCL	sat	--
	N-Butylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	237	mg/kg	BCL	sat	--
	sec-Butylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	223	mg/kg	BCL	sat	--
	tert-Butylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	393	mg/kg	BCL	sat	--
	Carbon tetrachloride	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	3.86	mg/kg	BCL	C	--
	Chlorobenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	695	mg/kg	BCL	sat	--
	Chloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1,250	mg/kg	BCL	C	--

Table 2
Soil Stockpile Characterization Sample Results
Storm Water Conveyance Modification and Property Line Grading Project
NERT Site, Henderson, Nevada

Parameter of Interest	Chemical	Bin Characterization Sample BIN1-20160406 4/6/2016	Characterization Sample 1A STOCKPILE1A-20160406 4/6/2016	Characterization Sample 1B STOCKPILE1B-20160406 4/6/2016	Characterization Sample 2A STOCKPILE2A-20160406 4/6/2016	Characterization Sample STOCKPILE2B-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
VOCs (Continued)	Chloroform	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1.56	mg/kg	BCL	C	--
	Chloromethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	8.05	mg/kg	BCL	C	--
	2-Chlorotoluene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	511	mg/kg	BCL	sat	--
	4-Chlorotoluene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	--	mg/kg	--	--	--
	cis-1,2-Dichloroethene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	741	mg/kg	BCL	N	--
	cis-1,3-Dichloropropene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	--	mg/kg	--	--	--
	1,2-Dibromo-3-chloropropane	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	0.0529	mg/kg	BCL	C	--
	Dibromochloromethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	6.09	mg/kg	BCL	C	--
	Dibromomethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	191	mg/kg	BCL	N	--
	1,2-Dichlorobenzene (by 8260B)	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	373	mg/kg	BCL	sat	--
	1,2-Dichlorobenzene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330					
	1,3-Dichlorobenzene (by 8260B)	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	373	mg/kg	BCL	sat	--
	1,3-Dichlorobenzene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330					
	1,4-Dichlorobenzene (by 8260B)	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	13.7	mg/kg	BCL	C	--
	1,4-Dichlorobenzene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330					
	Dichlorodifluoromethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	340	mg/kg	BCL	sat	--
	1,1-Dichloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	21.5	mg/kg	BCL	C	--
	1,2-Dichloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	2.25	mg/kg	BCL	C	--
	1,1-Dichloroethene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1,280	mg/kg	BCL	N	--
	trans-1,2-Dichloroethene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	548	mg/kg	BCL	N	--
	1,2-Dichloropropane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	4.32	mg/kg	BCL	C	--
	1,3-Dichloropropane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	64.6	mg/kg	BCL	N	--
	2,2-Dichloropropane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	--	mg/kg	--	--	--
	1,1-Dichloropropene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	--	mg/kg	--	--	--
	trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	1,4-Dioxane	NA	NA	NA	NA	NA	25.7	mg/kg	BCL	C	--
	Ethyl t-butyl ether	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Ethylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	19.7	mg/kg	BCL	C	--
	Ethylene dibromide	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	0.18	mg/kg	BCL	C	--
	Hexachlorobutadiene (by 8260B)	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	32.9	mg/kg	BCL	C	--
	Hexachlorobutadiene (by 8270C)	NA	NA	NA	NA	NA					
	2-Hexanone	NA	NA	NA	NA	NA	1,930	mg/kg	BCL	N	--
	Isopropyl ether	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Isopropylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	647	mg/kg	BCL	sat	--
	4-Isopropyltoluene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	647	mg/kg	BCL	sat	--
	Methyl tert butyl ether	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	209	mg/kg	BCL	C	--
	4-Methyl-2-pentanone	NA	NA	NA	NA	NA	17,200	mg/kg	BCL	sat	--
	Methylene chloride	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	59.1	mg/kg	BCL	C	--
	N-Propylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	237	mg/kg	BCL	sat	--
	Styrene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1,730	mg/kg	BCL	sat	--
	t-Butyl alcohol	NA	NA	NA	NA	NA	21,300	mg/kg	BCL	sat	--
	1,1,1,2-Tetrachloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	20.1	mg/kg	BCL	C	--
	1,1,2,2-Tetrachloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	2.57	mg/kg	BCL	C	--

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Parameter of Interest	Chemical	Bin Characterization Sample BIN1-20160406 4/6/2016	Characterization Sample 1A STOCKPILE1A-20160406 4/6/2016	Characterization Sample 1B STOCKPILE1B-20160406 4/6/2016	Characterization Sample 2A STOCKPILE2A-20160406 4/6/2016	Characterization Sample STOCKPILE2B-20160406 4/6/2016	NDEP 2015 Worker BCL or Site-Specific Screening Level[a]	Unit	Soil Screening Level Basis	BCL Basis	TCLP Screening Level[h]
VOCs (Continued)	Tetrachloroethene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	3.52	mg/kg	BCL	C	--
	Toluene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	521	mg/kg	BCL	sat	--
	1,2,3-Trichlorobenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	--	mg/kg	--	--	--
	1,2,4-Trichlorobenzene (by 8260B)	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	125	mg/kg	BCL	C	--
	1,2,4-Trichlorobenzene (by 8270C)	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330	ND < 0.330					
	1,1,1-Trichloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1,390	mg/kg	BCL	sat	--
	1,1,2-Trichloroethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	5.55	mg/kg	BCL	C	--
	Trichloroethene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	6.01	mg/kg	BCL	C	--
	Trichlorofluoromethane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1,980	mg/kg	BCL	sat	--
	1,2,3-Trichloropropane	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	0.12	mg/kg	BCL	C	--
	1,2,4-Trimethylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	604	mg/kg	BCL	N	--
	1,3,5-Trimethylbenzene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	246	mg/kg	BCL	N	--
	Vinyl Chloride	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	1.97	mg/kg	BCL	C	--
	m-Xylene	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	214	mg/kg	BCL	sat	--
	o-Xylene	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	282	mg/kg	BCL	sat	--
	p-Xylene	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	375	mg/kg	BCL	sat	--
	Xylenes, total	NA	NA	NA	NA	NA	214	mg/kg	BCL	sat	--
TPH	Oil Range Organics (TPH-oil)	ND < 10	ND < 9.9	ND < 10	**20**	**27**	--	mg/kg	--	--	--
	TPH-diesel	ND < 10	ND < 9.9	ND < 10	**16**	**20**	--	mg/kg	--	--	--
	TPH-gasoline	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	--	mg/kg	--	--	--
PCBs	Aroclor-1016	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	32.8	mg/kg	BCL	C	--
	Aroclor-1221	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	ND < 0.033	1.15	mg/kg	BCL	C	--
	Aroclor-1232	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	1.15	mg/kg	BCL	C	--
	Aroclor-1242	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	1.15	mg/kg	BCL	C	--
	Aroclor-1248	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	1.15	mg/kg	BCL	C	--
	Aroclor-1254	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	1.15	mg/kg	BCL	C	--
	Aroclor-1260	ND < 0.017	ND < 0.016	ND < 0.016	ND < 0.016	ND < 0.017	1.15	mg/kg	BCL	C	--
	Total PCBs	NA	NA	NA	NA	NA	1.15	mg/kg	BCL	C	--
General Chemistry	Cyanide	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	27.9	mg/kg	BCL	N	--
	Perchlorate	**21**	**4.6**	**6.1**	**0.57**	**0.69**	908	mg/kg	BCL	N	--
Dioxins/Furans	2,3,7,8-TCDD	**1.2**	**1.1**	**6.0**	**21**	**24**	--	pg/g	--	--	--
	2,3,7,8-TCDF	**39.0**	**49.0**	**200.0**	**650**	**790**	--	pg/g	--	--	--
	1,2,3,7,8-PeCDD	ND < 5.0	ND < 5.0	**19.0**	**75**	**86**	--	pg/g	--	--	--
	1,2,3,7,8-PeCDF	**56.0**	**83.0**	**360.0**	**1,200**	**1,500**	--	pg/g	--	--	--
	2,3,4,7,8-PeCDF	**34.0**	**51.0**	**210.0**	**660**	**790**	--	pg/g	--	--	--
	1,2,3,4,7,8-HxCDD	ND < 5.0	**5.2**	**16.0**	**64**	**67**	--	pg/g	--	--	--
	1,2,3,6,7,8-HxCDD	**6.2**	**8.6**	**30.0**	**120**	**120**	--	pg/g	--	--	--
	1,2,3,7,8,9-HxCDD	**6.6**	**9.2**	**29.0**	**120**	**120**	--	pg/g	--	--	--
	1,2,3,4,7,8-HxCDF	**97.0**	**170.0**	**740.0**	**2,500**	**2,800**	--	pg/g	--	--	--
	1,2,3,6,7,8-HxCDF	**71.0**	**120.0**	**540.0**	**1,800**	**2,000**	--	pg/g	--	--	--

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Dioxins/Furans (Continued)	2,3,4,6,7,8-HxCDF	**37.0**	**63.0**	**270.0**	**860**	**1,100**	--	pg/g	--	--	--
	1,2,3,7,8,9-HxCDF	**28.0**	**52.0**	**230.0**	**720**	**860**	--	pg/g	--	--	--
	1,2,3,4,6,7,8-HpCDD	**26.0**	**32.0**	**110.0**	**430**	**480**	--	pg/g	--	--	--
	1,2,3,4,6,7,8-HpCDF	**230.0**	**500.0**	**2,300.0**	**6,800**	**9,200**	--	pg/g	--	--	--
	1,2,3,4,7,8,9-HpCDF	**91.0**	**190.0**	**800.0**	**2,400**	**2,900**	--	pg/g	--	--	--
	OCDD	**72.0**	**46.0**	**140.0**	**550**	**750**	--	pg/g	--	--	--
	OCDF	**890.0**	**1,900.0**	**6,300.0**	**23,000**	**110,000**	--	pg/g	--	--	--
	TCDD TEQ[e]	**46.9**	**75.8**	**338.3**	**1,116.8**	**1,336.7**	2,700[f]	pg/g	Site-Specific	--	--
Metals	Aluminum	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Antimony	NA	NA	NA	NA	NA	519	mg/kg	BCL	N	--
	Arsenic	**8.8**	**5.3**	**5.0**	**23**	**120**	7.2[g]	mg/kg	Background	--	--
	Barium	**400**	**270**	**150**	**990**	**4,200**	100,000	mg/kg	BCL	max	--
	Beryllium	NA	NA	NA	NA	NA	2,540	mg/kg	BCL	N	--
	Boron	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Cadmium	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	**1.6**	1,270	mg/kg	BCL	N	--
	Chromium (III)	**17**	**11**	**10**	**25**	**150**	100,000	mg/kg	BCL	max	--
	Chromium (VI)	**0.98**	**0.28**	**0.26**	**5.1**	**15**	1,230	mg/kg	BCL	C	--
	Cobalt	NA	NA	NA	NA	NA	385	mg/kg	BCL	N	--
	Copper	NA	NA	NA	NA	NA	48,200	mg/kg	BCL	N	--
	Iron	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Lead	**32**	**24**	**18**	**250**	**1,100**	800	mg/kg	BCL	--	--
	Lead (organic)	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Magnesium	**8,800**	**7,700**	**6,200**	**6,000**	**6,800**	100,000	mg/kg	BCL	max	--
	Manganese	**8,100**	**980**	**1,600**	**18,000**	**29,000**	28,100	mg/kg	BCL	N	--
	Mercury	ND < 0.10	ND < 0.10	ND < 0.10	**1.2**	**0.72**	208	mg/kg	BCL	N	--
	Molybdenum	NA	NA	NA	NA	NA	6,490	mg/kg	BCL	N	--
	Nickel	NA	NA	NA	NA	NA	24,700	mg/kg	BCL	N	--
	Platinum	**0.0029**	**0.0016**	**0.0016**	**0.0278**	**0.048**	649	mg/kg	BCL	N	--
	Potassium	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Selenium	**1.3**	ND < 1.0	ND < 1.0	**3.4**	**14**	6,490	mg/kg	BCL	N	--
	Silver	ND < 1.0	ND < 1.0	ND < 1.0	**1.2**	**6.1**	6,490	mg/kg	BCL	N	--
	Sodium	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Strontium	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Thallium	NA	NA	NA	NA	NA	85.7	mg/kg	BCL	--	--
	Tin	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Titanium	**500**	**450**	**350**	**490**	**1,200**	100,000	mg/kg	BCL	max	--
	Tungsten	NA	NA	NA	NA	NA	9,730	mg/kg	BCL	N	--
	Uranium	NA	NA	NA	NA	NA	3,880	mg/kg	BCL	N	--
	Vanadium	NA	NA	NA	NA	NA	6,490	mg/kg	BCL	N	--

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Metals (continued)	Zinc	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
Inorganic Anions	Bromide	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Chloride	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Fluoride	NA	NA	NA	NA	NA	55,000	mg/kg	BCL	N	--
	Nitrate	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Nitrite	NA	NA	NA	NA	NA	100,000	mg/kg	BCL	max	--
	Orthophosphate	NA	NA	NA	NA	NA	--	mg/kg	--	--	--
	Sulfate	**3,500**	**700**	**480**	**410**	**300**	--	mg/kg	--	--	--
	Sulfide	ND < 250	ND < 250	ND < 250	ND < 250	ND < 250	--	mg/kg	--	--	--
Asbestos	Long amphibole protocol structures	NA	NA	NA	NA	NA	1 or more	protocol structures	Site-Specific	--	--
	Long chrysotile protocol structures	NA	NA	NA	NA	NA	More than 5	protocol structures	Site-Specific	--	--
Miscellaneous	pH	**8.1**	**8.3**	**8.2**	**7.9**	**7.7**	--	--	--	--	--
	Ignitability	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	--	--	--	--	--
TCLP Herbicides	2,4-Dichlorophenoxyacetic acid	NA	NA	NA	NA	NA	--	mg/L	--	--	10.0
	2,4,5-TP (Silvex)	NA	NA	NA	NA	NA	--	mg/L	--	--	1.0
TCLP Metals	Arsenic	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	**0.055**	--	mg/L	--	--	5.0
	Barium	ND < 0.20	**0.57**	**0.52**	**0.70**	**1.2**	--	mg/L	--	--	100.0
	Cadmium	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	--	mg/L	--	--	1.0
	Chromium	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	**0.092**	--	mg/L	--	--	5.0
	Chromium (VI)	NA	NA	NA	NA	NA	--	mg/L	--	--	--
	Lead	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	--	mg/L	--	--	5.0
	Mercury	ND < 0.0005	ND < 0.0005	ND < 0.0005	ND < 0.0005	**0.00061**	--	mg/L	--	--	0.2
	Selenium	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	--	mg/L	--	--	1.0
	Silver	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	ND < 0.050	--	mg/L	--	--	5.0
TCLP Pesticides	Chlordane	NA	NA	NA	NA	NA	--	mg/L	--	--	0.03
	Endrin	NA	NA	NA	NA	NA	--	mg/L	--	--	0.02
	Heptachlor	NA	NA	NA	NA	NA	--	mg/L	--	--	0.008
	Heptachlor Epoxide	NA	NA	NA	NA	NA	--	mg/L	--	--	0.008
	Lindane	NA	NA	NA	NA	NA	--	mg/L	--	--	0.4
	Methoxychlor	NA	NA	NA	NA	NA	--	mg/L	--	--	10.0
	Toxaphene	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
TCLP VOCs	Benzene	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	Carbon tetrachloride	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	Chlorobenzene	NA	NA	NA	NA	NA	--	mg/L	--	--	100.0
	Chloroform	NA	NA	NA	NA	NA	--	mg/L	--	--	6.0
	1,4-Dichlorobenzene	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010	--	mg/L	--	--	7.5
	1,2-Dichloroethane	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5
	1,1-Dichloroethelene	NA	NA	NA	NA	NA	--	mg/L	--	--	0.7
	2-Butanone	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	Tetrachloroethene	NA	NA	NA	NA	NA	--	mg/L	--	--	0.7
	Trichloroethene	NA	NA	NA	NA	NA	--	mg/L	--	--	0.5

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TCLP VOCs (cont)	Vinyl Chloride	NA	NA	NA	NA	NA	--	mg/L	--	--	0.2
TCLP SVOCs	o-Cresol	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	200.0
	m-Cresol	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	200.0
	p-Cresol	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	200.0
	Cresols (Total)	NA	NA	NA	NA	NA	--	mg/L	--	--	200.0
	2,4-Dinitrotoluene	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	0.13
	Hexachlorobenzene	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	0.13
	Hexachlorobutadiene	ND < 0.021	ND < 0.023	ND < 0.022	ND < 0.022	ND < 0.020	--	mg/L	--	--	0.5
	Hexachloroethane	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	3.0
	Nitrobenzene	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	2.0
	Pentachlorophenol	ND < 0.052	ND < 0.057	ND < 0.055	ND < 0.055	ND < 0.050	--	mg/L	--	--	100.0
	Pyridine	ND < 0.052	ND < 0.057	ND < 0.055	ND < 0.055	ND < 0.050	--	mg/L	--	--	5.0
	2,4,5-Trichlorophenol	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	400.0
	2,4,6-Trichlorophenol	ND < 0.010	ND < 0.011	ND < 0.011	ND < 0.011	ND < 0.010	--	mg/L	--	--	2.0

[a] - From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 13, February 2015. Values for the worker are the lower of the

[b] - BCL based on mixed isomer.

[c] - Hexachlorobenzene analyzed using EPA Method 8270D.

[d] - 100 mg/kg total TPH value used for screening.

[e] - TCDD equivalents based on WHO 2005 TEFs for the 17 dioxin and furan congeners.

[f] - Site-specific value: from NDEP, Letter to Tronox LLC re: Response to: Results of Bioaccessibility Study for Dioxin/Furans in Soil, Tronox LLC, Henderson, Nevada (Revised), May 25, 2010. (NDEP, 2010a).

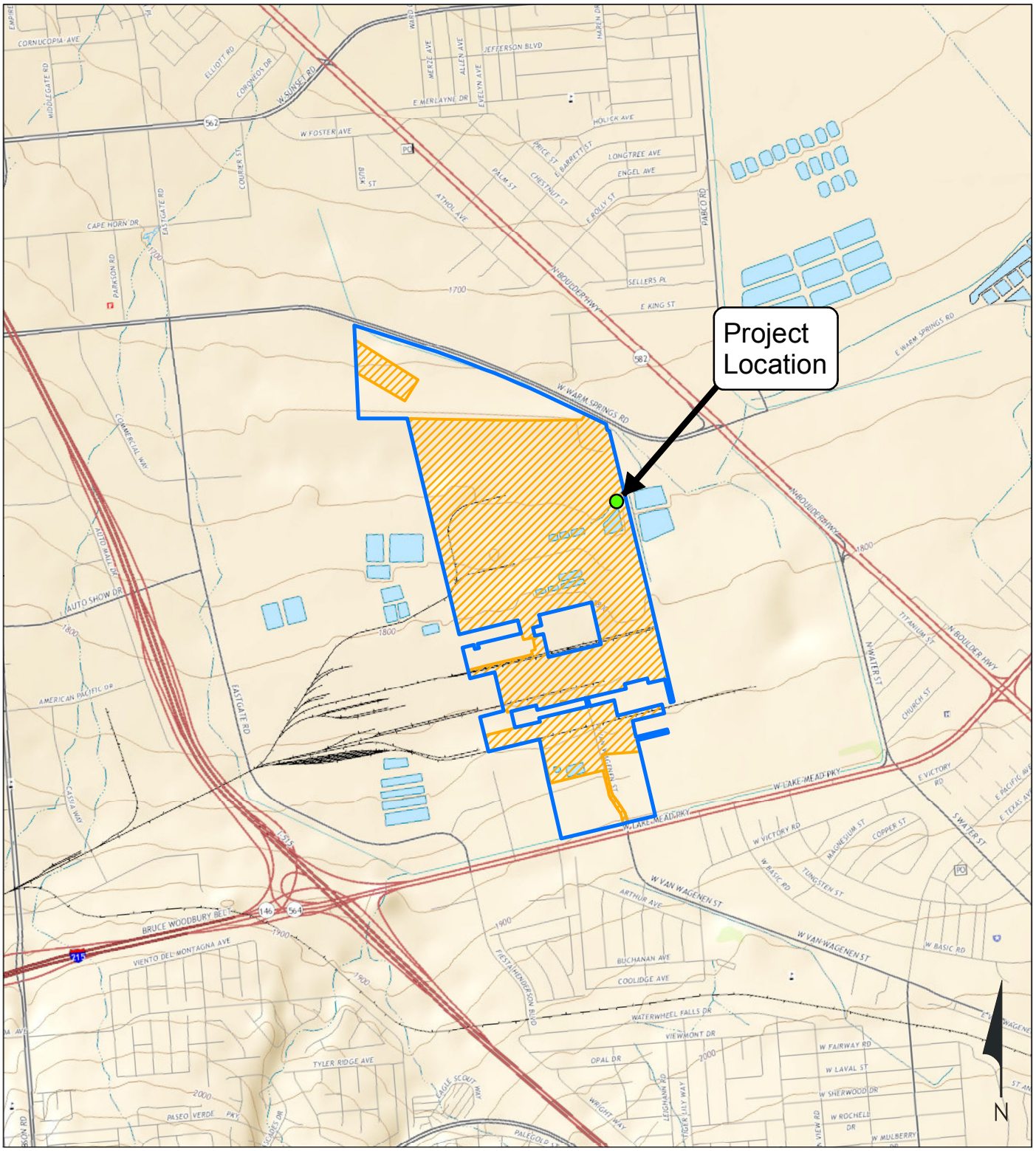
[g] - Based on regional background concentrations as approved by NDEP on August 20, 2010 (NDEP, 2010d).

[h] - TCLP source: 40 Code of Federal Regulations (CFR) 261, appendix II, 1993 ed., as amended by 58 FR 46040, Aug 31, 1993.

Red shading indicates concentrations exceeds NDEP 2015 Worker BCL or Site-Specific Screening Level.

BCL = Basic comparison level
C = Cancer
J = Approximate value
N = Noncancer
NA = Not applicable
sat = soil saturation
max = risk-based value is greater than 100,000 mg/kg
-- = undefined or no value
mg/kg = milligrams per kilogram
NERT = Nevada Environmental Response Trust
pCi/g = picoCuries per gram
PAHs = Polycyclic aromatic hydrocarbons
PCBs = Polychlorinated biphenyls
TEF = Toxicity equivalent favor
TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TCLP = Toxicity characteristic leaching procedure
TPH = Total petroluem hydrocarbons
SVOCs = Semi-volatile organic compounds
VOCs = Volatile organic compounds
WHO = World Health Organization

FIGURES



Legend

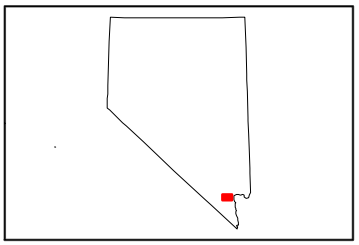
- NERT Owned Property
- SMP Site Boundary

0 0.5 1
SCALE IN MILES

0 2,000 4,000 6,000
SCALE IN FEET

NOTES:
CONTOUR INTERVAL 20 FEET

SOURCE: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data



QUADRANGLE KEY MAP

H:\LePetomane\NERT\GIS\Fig1_SiteLocation Map.mxd

RAMBOLL ENVIRON

DRAFTED BY: RS

DATE: 11/28/2016

Site Location Map

Storm Water Conveyance Modification and Property Line Grading Project
Nevada Environmental Response Trust Site
Henderson, Nevada

FIGURE
1

PROJECT: 21-38800A

RAMBOLL ENVIRON

Confirmation Sample Locations and Proposed ECA Boundary
Storm Water Conveyance Modification and Property Line Grading Project
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure **2**

Drafter: RS | Date: 11/28/2016 | Contract Number: 21-38800A | Approved by: | Revised:

Path: H:\LePetomane\NERT\GIS\21-38800a-F07-ExcavationLoc.mxd

RAMBOLL ENVIRON

Reuse Soil Stockpile Location
Storm Water Conveyance Modification and Property Line Grading Project
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
3

Drafter: RS | Date: 11/29/2016 | Contract Number: 21-34800A | Approved by: | Revised:

Path: H:\LePetomane\NERT\GIS\MN-1 Reuse Soil Stockpile.mxd

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-138115-1
Client Project/Site: NERT Stormwater Outfall
Revision: 2

For:
Logistical Solutions
4780 W. Ann Rd.
#5-237
North Las Vegas, Nevada 89031

Attn: Kris Everett

Authorized for release by:
3/11/2016 3:25:33 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

Table of Contents

Sample Summary

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-138115-5	NERT-SO-COMPOSITE	Solid	02/09/16 11:00	02/13/16 10:30

Job ID: 440-138115-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-138115-1

Comments
This report was revised on 3/11/16 to include 2-Butanone (MEK) in the EPA 8260B list.

Report revised on 3/8/16 to include all RCRA metals.

No additional comments.

Receipt
The samples were received on 2/13/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-311752 recovered above the upper control limit for 1,1,1-Trichloroethane, 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: NERT-SO-COMPOSITE (440-138115-5) and (CCVIS 440-311752/2).

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-311752 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The source sample for the matrix spike (MS) and matrix spike duplicate (MSD) for preparation batch 311453 was diluted due to the abundance of target analytes. As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported.

Method(s) 8270C SIM: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 440-311693 and analytical batch 440-312709: Pyrene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270C: The percent recovery for hexachlorocyclopentadiene was below the lower acceptance limit in the continuing calibration verification (CCV) associated with batch 312174. This compound is not classified as a Calibration Check Compound (CCC) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. A standard was run at the reporting limit for this compound to demonstrate sufficient instrument sensitivity. This compound is reportable from this batch as it was not detected in the following affected sample: NERT-SO-COMPOSITE (440-138115-5) and (CCVIS 440-312174/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 9056: Due to the high concentration of nitrite, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-312481 and analytical batch 440-312491 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 314.0: LCS/LCSD were used for the following sample for Perchlorate analysis in batch 312928 due to insufficient sample volume to extract MS/MSD.NERT-SO-COMPOSITE (440-138115-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with 312557 were outside control limits: (440-136732-A-1 MS) and (440-136732-A-1 MSD). The associated laboratory control sample (LCS) and laboratory

Job ID: 440-138115-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

control sample duplicate (LCSD) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 440-311854 recovered above the upper control limit for Endrin. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: NERT-SO-COMPOSITE (440-138115-5), (CCVIS 440-311854/7) and (440-138168-A-1-C).

Method(s) 8015B: Surrogate recovery for the following sample was outside control limits: NERT-SO-COMPOSITE (440-138115-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
Method(s) 8290: The following sample exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): NERT-SO-COMPOSITE (440-138115-5) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020A: The following samples were diluted due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: NERT-SO-COMPOSITE (440-138115-5), (440-138115-D-5-B MS), (440-138115-D-5-C MSD) and (440-138115-D-5-A SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9014: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-311288 and analytical batch 440-311686 were outside control limits for Total Cyanide. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: NERT-SO-COMPOSITE (440-138115-5), (440-138115-A-5 MS) and (440-138115-A-5 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos (600/R-93-116): This method was subcontracted to EMLab P&K - Denver. The subcontract laboratory certification is different from that of the facility issuing the final report.

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Client Sample ID: NERT-SO-COMPOSITE
Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5
Matrix: Solid
Percent Solids: 93.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Bromobenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Bromochloromethane	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Bromodichloromethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Bromoform	ND		5.3	2.1	ug/Kg	☼		02/17/16 15:54	1
Bromomethane	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Carbon tetrachloride	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Chlorobenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Chloroethane	ND		5.3	2.1	ug/Kg	☼		02/17/16 15:54	1
Chloroform	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Chloromethane	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
2-Chlorotoluene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
4-Chlorotoluene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
cis-1,2-Dichloroethene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
cis-1,3-Dichloropropene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Dibromochloromethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.1	ug/Kg	☼		02/17/16 15:54	1
1,2-Dibromoethane (EDB)	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Dibromomethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2-Dichlorobenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,3-Dichlorobenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,4-Dichlorobenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Dichlorodifluoromethane	ND		5.3	2.1	ug/Kg	☼		02/17/16 15:54	1
1,1-Dichloroethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2-Dichloroethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1-Dichloroethene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2-Dichloropropane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,3-Dichloropropane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
2,2-Dichloropropane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1-Dichloropropene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Ethylbenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Hexachlorobutadiene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Isopropylbenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Methylene Chloride	ND		21	5.3	ug/Kg	☼		02/17/16 15:54	1
m,p-Xylene	ND		4.2	2.1	ug/Kg	☼		02/17/16 15:54	1
Naphthalene	ND		5.3	2.1	ug/Kg	☼		02/17/16 15:54	1
n-Butylbenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
N-Propylbenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
o-Xylene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
p-Isopropyltoluene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
sec-Butylbenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
Styrene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
tert-Butylbenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1,1,2-Tetrachloroethane	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Tetrachloroethene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Toluene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
trans-1,2-Dichloroethene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
trans-1,3-Dichloropropene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1

Client Sample ID: NERT-SO-COMPOSITE

Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5

Matrix: Solid
Percent Solids: 93.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1,1-Trichloroethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,1,2-Trichloroethane	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Trichloroethene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Trichlorofluoromethane	ND	*	5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg	☼		02/17/16 15:54	1
1,2,4-Trimethylbenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
1,3,5-Trimethylbenzene	ND		2.1	1.1	ug/Kg	☼		02/17/16 15:54	1
Vinyl chloride	ND		5.3	1.1	ug/Kg	☼		02/17/16 15:54	1
2-Butanone (MEK)	ND		11	5.3	ug/Kg	☼		02/17/16 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*02/17/16 15:54*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 120*		*02/17/16 15:54*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*		*02/17/16 15:54*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Acenaphthylene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Anthracene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Benzo[a]anthracene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Benzo[a]pyrene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Benzo[b]fluoranthene	**10**	**J**	67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Benzo[g,h,i]perylene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Benzo[k]fluoranthene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Chrysene	**12**	**J**	67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Dibenz(a,h)anthracene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Fluoranthene	**19**	**J**	67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Fluorene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Indeno[1,2,3-cd]pyrene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Naphthalene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Phenanthrene	ND		67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1
Pyrene	ND	*	67	9.0	ug/Kg	☼	02/16/16 16:49	02/22/16 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 111*	*02/16/16 16:49*	*02/22/16 12:11*	*1*
Nitrobenzene-d5	*73*		*41 - 119*	*02/16/16 16:49*	*02/22/16 12:11*	*1*
Terphenyl-d14	*84*		*43 - 150*	*02/16/16 16:49*	*02/22/16 12:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Acenaphthylene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Aniline	ND		440	89	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Anthracene	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzidine	ND		1400	690	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzo[a]anthracene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzo[a]pyrene	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Client Sample ID: NERT-SO-COMPOSITE
Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5
Matrix: Solid
Percent Solids: 93.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzo[g,h,i]perylene	ND		350	120	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzoic acid	ND		870	360	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzo[k]fluoranthene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Benzyl alcohol	ND		350	160	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Bis(2-chloroethoxy)methane	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Bis(2-chloroethyl)ether	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
bis (2-chloroisopropyl) ether	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Bis(2-ethylhexyl) phthalate	ND		350	95	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Bromophenyl phenyl ether	ND		350	79	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Butyl benzyl phthalate	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Chloroaniline	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Chloro-3-methylphenol	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Chloronaphthalene	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Chlorophenol	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Chlorophenyl phenyl ether	ND		350	89	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Chrysene	ND		350	79	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Dibenz(a,h)anthracene	ND		440	110	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Dibenzofuran	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
1,2-Dichlorobenzene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
1,3-Dichlorobenzene	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
1,4-Dichlorobenzene	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
3,3'-Dichlorobenzidine	ND		870	160	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4-Dichlorophenol	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Diethyl phthalate	ND		350	100	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4-Dimethylphenol	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Dimethyl phthalate	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Di-n-butyl phthalate	ND		350	95	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4,6-Dinitro-2-methylphenol	ND		440	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4-Dinitrophenol	ND		690	350	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4-Dinitrotoluene	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,6-Dinitrotoluene	ND		350	100	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Di-n-octyl phthalate	ND		350	95	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Fluoranthene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Fluorene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Hexachlorobenzene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Hexachlorobutadiene	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Hexachlorocyclopentadiene	ND		870	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Hexachloroethane	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Indeno[1,2,3-cd]pyrene	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Isophorone	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Methylnaphthalene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Methylphenol	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
3-Methylphenol + 4-Methylphenol	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Naphthalene	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Nitroaniline	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
3-Nitroaniline	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Nitroaniline	ND		870	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1

Client Sample ID: NERT-SO-COMPOSITE

Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5

Matrix: Solid
Percent Solids: 93.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2-Nitrophenol	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
4-Nitrophenol	ND		870	150	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
N-Nitrosodimethylamine	ND		350	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
N-Nitrosodi-n-propylamine	ND		260	74	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
N-Nitrosodiphenylamine	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Pentachlorophenol	ND		870	360	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Phenanthrene	ND		350	70	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Phenol	ND		350	95	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
Pyrene	ND		350	84	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
1,2,4-Trichlorobenzene	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4,5-Trichlorophenol	ND		350	140	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1
2,4,6-Trichlorophenol	ND		350	79	ug/Kg	☼	02/15/16 17:39	02/19/16 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*42 - 113*	*02/15/16 17:39*	*02/19/16 00:31*	*1*
2-Fluorophenol (Surr)	*79*		*18 - 138*	*02/15/16 17:39*	*02/19/16 00:31*	*1*
Nitrobenzene-d5 (Surr)	*72*		*39 - 104*	*02/15/16 17:39*	*02/19/16 00:31*	*1*
Phenol-d6 (Surr)	*76*		*37 - 125*	*02/15/16 17:39*	*02/19/16 00:31*	*1*
Terphenyl-d14 (Surr)	*93*		*43 - 125*	*02/15/16 17:39*	*02/19/16 00:31*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 147*	*02/15/16 17:39*	*02/19/16 00:31*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		420	160	ug/Kg	☼		02/21/16 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*65 - 140*		*02/21/16 01:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		11	5.3	mg/Kg	☼	02/20/16 17:06	02/22/16 14:47	1
C23-C40	**99**		11	5.3	mg/Kg	☼	02/20/16 17:06	02/22/16 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*158*	*X*	*40 - 140*	*02/20/16 17:06*	*02/22/16 14:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
4,4'-DDE	**7.8**	**J**	11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
4,4'-DDT	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Aldrin	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
alpha-BHC	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
beta-BHC	**7.3**	**J**	11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Chlordane (technical)	ND		110	21	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
delta-BHC	ND		21	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Dieldrin	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Endosulfan I	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Endosulfan II	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Endosulfan sulfate	ND		21	4.3	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1

Client Sample ID: NERT-SO-COMPOSITE

Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5

Matrix: Solid
Percent Solids: 93.6

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Endrin aldehyde	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Endrin ketone	ND		11	4.3	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
gamma-BHC (Lindane)	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Heptachlor	ND		11	4.3	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Heptachlor epoxide	ND		11	4.3	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Methoxychlor	ND		11	3.2	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1
Toxaphene	ND		430	110	ug/Kg	☼	02/15/16 16:51	02/17/16 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*35 - 115*	*02/15/16 16:51*	*02/17/16 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*02/15/16 16:51*	*02/17/16 14:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1221	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1232	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1242	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1248	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1254	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1
Aroclor 1260	ND		110	36	ug/Kg	☼	02/15/16 16:51	02/16/16 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*114*		*45 - 120*	*02/15/16 16:51*	*02/16/16 22:25*	*1*

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**5.9**		0.43	0.10	mg/Kg	☼		02/23/16 12:38	10

Method: 9056 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.3	3.7	mg/Kg	☼		02/19/16 21:22	1
Nitrate as N	**16**		1.2	0.85	mg/Kg	☼		02/19/16 21:22	1
Chloride	**160**		5.3	4.3	mg/Kg	☼		02/19/16 21:22	1
Nitrite as N	ND		1.6	1.2	mg/Kg	☼		02/19/16 21:22	1
Fluoride	ND		5.3	3.7	mg/Kg	☼		02/19/16 21:22	1
Nitrate as NO3	**71**		5.3	3.7	mg/Kg	☼		02/19/16 21:22	1
Orthophosphorus as PO4	ND		5.3	4.3	mg/Kg	☼		02/19/16 21:22	1
Sulfate	**770**		27	21	mg/Kg	☼		02/20/16 11:08	5

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**2.3**		1.1	0.19	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,7,8-PeCDD	**6.7**		5.3	0.76	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,7,8-PeCDF	**96**		5.3	4.7	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
2,3,4,7,8-PeCDF	**47**		5.3	4.8	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,4,7,8-HxCDD	**5.0**	**J**	5.3	0.22	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,6,7,8-HxCDD	**11**		5.3	0.21	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,7,8,9-HxCDD	**9.5**		5.3	0.19	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,4,7,8-HxCDF	**190**		5.3	3.1	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1

Client Sample ID: NERT-SO-COMPOSITE

Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5

Matrix: Solid
Percent Solids: 93.6

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	130		5.3	2.9	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
2,3,4,6,7,8-HxCDF	33		5.3	3.1	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,7,8,9-HxCDF	17		5.3	3.2	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,4,6,7,8-HpCDD	53	B	5.3	1.3	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,4,6,7,8-HpCDF	470	B	5.3	4.6	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
1,2,3,4,7,8,9-HpCDF	190	G	5.9	5.9	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
OCDD	200	B	11	0.26	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1
OCDF	2800	B	11	2.3	pg/g	☼	02/18/16 05:59	02/26/16 09:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*
13C-OCDD	*105*		*40 - 135*	*02/18/16 05:59*	*02/26/16 09:16*	*1*

Method: 8290 - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	56		1.1	0.63	pg/g	☼	02/18/16 05:59	02/27/16 00:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*02/18/16 05:59*	*02/27/16 00:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		6.4	3.2	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Chromium	17		2.1	1.1	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Iron	18000		21	11	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Magnesium	6800		21	11	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Manganese	6100		4.3	2.1	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Titanium	670		4.3	2.1	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Cadmium	0.72	J	1.1	0.53	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Barium	370		3.2	1.6	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Silver	ND		3.2	1.6	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Lead	25		4.3	2.1	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10
Selenium	ND		6.4	3.2	mg/Kg	☼	02/16/16 09:09	02/21/16 14:07	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		0.48	0.090	mg/Kg	☼	02/22/16 11:27	02/27/16 00:20	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.021	0.013	mg/Kg	☼	02/26/16 22:01	02/29/16 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ignitability	not ignitable		1.0	1.0	NONE			02/21/16 15:56	1

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Client Sample ID: NERT-SO-COMPOSITE
Date Collected: 02/09/16 11:00
Date Received: 02/13/16 10:30

Lab Sample ID: 440-138115-5
Matrix: Solid
Percent Solids: 93.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.75	J	1.1	0.43	mg/Kg	☼	02/18/16 17:08	02/20/16 01:35	1
Cyanide, Total	ND		0.53	0.46	mg/Kg	☼	02/14/16 23:51	02/16/16 16:29	1
Sulfide	ND		43	21	mg/Kg	☼	02/15/16 15:25	02/15/16 17:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.100	0.100	SU			02/16/16 14:59	1

Method Summary

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
9056	Anions, Ion Chromatography	SW846	TAL IRV
8290	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL IRV
6020A	Metals (ICP/MS)	SW846	TAL SL
7471A	Mercury (CVAA)	SW846	TAL IRV
7.1.2	Ignitablity,Solids	SW846	TAL IRV
7196A	Chromium, Hexavalent	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL IRV
9045C	pH	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
Asbestos (600/R-93-116)	General Sub Contract Method	NONE	

Protocol References:

EPA = US Environmental Protection Agency
NONE = NONE
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Client Sample ID: NERT-SO-COMPOSITE

Lab Sample ID: 440-138115-5

Date Collected: 02/09/16 11:00

Matrix: Solid

Date Received: 02/13/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7.1.2		1			312643	02/21/16 15:56	KDP	TAL IRV
Soluble	Leach	DI Leach			19.98 g	20 mL	311623	02/16/16 11:30	ST	TAL IRV
Soluble	Analysis	9045C		1		20 mL	311646	02/16/16 14:59	ST	TAL IRV
Total/NA	Analysis	Moisture		1			312895	02/22/16 23:53	ECK	TAL IRV

Client Sample ID: NERT-SO-COMPOSITE

Lab Sample ID: 440-138115-5

Date Collected: 02/09/16 11:00

Matrix: Solid

Date Received: 02/13/16 10:30

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	311752	02/17/16 15:54	SS	TAL IRV
Total/NA	Prep	3546			15.26 g	1 mL	311453	02/15/16 17:39	BEJ	TAL IRV
Total/NA	Analysis	8270C		1	15.26 g	1 mL	312174	02/19/16 00:31	DF	TAL IRV
Total/NA	Prep	3546			7.14 g	1 mL	311693	02/16/16 16:49	VA	TAL IRV
Total/NA	Analysis	8270C SIM		1	7.14 g	1 mL	312709	02/22/16 12:11	AI	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	312557	02/21/16 01:11	IM	TAL IRV
Total/NA	Prep	3546			7.60 g	1 mL	312572	02/20/16 17:06	QCT	TAL IRV
Total/NA	Analysis	8015B		1	7.60 g	1 mL	312722	02/22/16 14:47	CN	TAL IRV
Total/NA	Prep	3546			7.51 g	2 mL	311435	02/15/16 16:51	QCT	TAL IRV
Total/NA	Analysis	8081A		1	7.51 g	2 mL	311854	02/17/16 14:19	KS	TAL IRV
Total/NA	Prep	3546			7.51 g	2 mL	311435	02/15/16 16:51	QCT	TAL IRV
Total/NA	Analysis	8082		1	7.51 g	2 mL	311677	02/16/16 22:25	KS	TAL IRV
Soluble	Leach	DI Leach			4.01 g	40 mL	312969	02/23/16 09:15	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		312928	02/23/16 12:38	CH	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	312481	02/19/16 16:31	TMB	TAL IRV
Soluble	Analysis	9056		1	5 mL		312491	02/19/16 21:22	NTN	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	312481	02/19/16 16:31	TMB	TAL IRV
Soluble	Analysis	9056		1	5 mL		312492	02/19/16 21:22	NTN	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	312481	02/19/16 16:31	TMB	TAL IRV
Soluble	Analysis	9056		5	5 mL		312492	02/20/16 11:08	NTN	TAL IRV
Total/NA	Prep	8290			10.06 g	20 uL	100688	02/18/16 05:59	GLB	TAL SAC
Total/NA	Analysis	8290		1	10.06 g	20 uL	101776	02/26/16 09:16	SMA	TAL SAC
Total/NA	Prep	8290	RA		10.06 g	20 uL	100688	02/18/16 05:59	GLB	TAL SAC
Total/NA	Analysis	8290	RA	1	10.06 g	20 uL	101795	02/27/16 00:05	KSS	TAL SAC
Total/NA	Prep	3050B			2.01 g	50 mL	311557	02/16/16 09:09	DT	TAL IRV
Total/NA	Analysis	6010B		10	2.01 g	50 mL	312671	02/21/16 14:07	EN	TAL IRV
Total/NA	Prep	3050B			0.5623 g	50 mL	237408	02/22/16 11:27	SFF	TAL SL
Total/NA	Analysis	6020A		10	0.5623 g	50 mL	238353	02/27/16 00:20	CB	TAL SL
Total/NA	Prep	7471A			0.51 g	50 mL	313991	02/26/16 22:01	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	314328	02/29/16 14:02	DB	TAL IRV
Total/NA	Prep	3060A			2.51 g	100 mL	312216	02/18/16 17:08	TMB	TAL IRV
Total/NA	Analysis	7196A		1	2.51 g	100 mL	312505	02/20/16 01:35	RW	TAL IRV
Total/NA	Prep	9010B			1.9982 g	50 mL	311288	02/14/16 23:51	ECK	TAL IRV

Lab Chronicle

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Client Sample ID: NERT-SO-COMPOSITE — **Lab Sample ID: 440-138115-5**
Date Collected: 02/09/16 11:00 — **Matrix: Solid**
Date Received: 02/13/16 10:30 — **Percent Solids: 93.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	1.9982 g	50 mL	311686	02/16/16 16:29	SN	TAL IRV
Total/NA	Prep	9030B			4.99 g	50 mL	311406	02/15/16 15:25	MSM	TAL IRV
Total/NA	Analysis	9034		1	4.99 g	50 mL	311425	02/15/16 17:30	MSM	TAL IRV

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-311752/4
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Bromobenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Bromoform	ND		5.0	2.0	ug/Kg			02/17/16 08:08	1
Bromomethane	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Chloroethane	ND		5.0	2.0	ug/Kg			02/17/16 08:08	1
Chloroform	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Chloromethane	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			02/17/16 08:08	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Dibromomethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			02/17/16 08:08	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Methylene Chloride	ND		20	5.0	ug/Kg			02/17/16 08:08	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			02/17/16 08:08	1
Naphthalene	ND		5.0	2.0	ug/Kg			02/17/16 08:08	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
o-Xylene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
Styrene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Toluene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-311752/4
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Trichloroethene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			02/17/16 08:08	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			02/17/16 08:08	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			02/17/16 08:08	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			02/17/16 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*02/17/16 08:08*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 120*		*02/17/16 08:08*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*		*02/17/16 08:08*	*1*

Lab Sample ID: LCS 440-311752/12
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.5		ug/Kg		101	65 - 120
Bromobenzene	50.0	53.6		ug/Kg		107	75 - 120
Bromochloromethane	50.0	55.5		ug/Kg		111	70 - 135
Bromodichloromethane	50.0	61.5		ug/Kg		123	70 - 135
Bromoform	50.0	59.5		ug/Kg		119	55 - 135
Bromomethane	50.0	52.3		ug/Kg		105	60 - 145
Carbon tetrachloride	50.0	70.1		ug/Kg		140	65 - 140
Chlorobenzene	50.0	52.2		ug/Kg		104	75 - 120
Chloroethane	50.0	50.6		ug/Kg		101	60 - 140
Chloroform	50.0	60.5		ug/Kg		121	70 - 130
Chloromethane	50.0	47.0		ug/Kg		94	45 - 145
2-Chlorotoluene	50.0	52.8		ug/Kg		106	70 - 125
4-Chlorotoluene	50.0	55.1		ug/Kg		110	75 - 125
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	50.0	56.0		ug/Kg		112	75 - 125
Dibromochloromethane	50.0	56.4		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	65.0		ug/Kg		130	50 - 135
1,2-Dibromoethane (EDB)	50.0	55.5		ug/Kg		111	70 - 130
Dibromomethane	50.0	58.7		ug/Kg		117	70 - 130
1,2-Dichlorobenzene	50.0	53.6		ug/Kg		107	75 - 120
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 125
1,4-Dichlorobenzene	50.0	52.2		ug/Kg		104	75 - 120
Dichlorodifluoromethane	50.0	66.8		ug/Kg		134	35 - 160
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	70 - 130
1,2-Dichloroethane	50.0	66.5		ug/Kg		133	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-311752/12
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	70 - 125
1,2-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 130
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	70 - 125
2,2-Dichloropropane	50.0	67.4		ug/Kg		135	60 - 145
1,1-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 130
Ethylbenzene	50.0	52.9		ug/Kg		106	70 - 125
Hexachlorobutadiene	50.0	59.2		ug/Kg		118	60 - 135
Isopropylbenzene	50.0	54.1		ug/Kg		108	75 - 130
Methylene Chloride	50.0	51.1		ug/Kg		102	55 - 135
m,p-Xylene	50.0	50.6		ug/Kg		101	70 - 125
Naphthalene	50.0	48.0		ug/Kg		96	55 - 135
n-Butylbenzene	50.0	54.8		ug/Kg		110	70 - 130
N-Propylbenzene	50.0	53.6		ug/Kg		107	70 - 130
o-Xylene	50.0	50.3		ug/Kg		101	70 - 125
p-Isopropyltoluene	50.0	53.5		ug/Kg		107	75 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
Styrene	50.0	54.0		ug/Kg		108	75 - 130
tert-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 125
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	55 - 140
Tetrachloroethene	50.0	52.7		ug/Kg		105	70 - 125
Toluene	50.0	50.1		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	52.3		ug/Kg		105	70 - 125
trans-1,3-Dichloropropene	50.0	58.3		ug/Kg		117	70 - 135
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	60 - 130
1,2,4-Trichlorobenzene	50.0	56.5		ug/Kg		113	70 - 135
1,1,1-Trichloroethane	50.0	66.9		ug/Kg		134	65 - 135
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	65 - 135
Trichloroethene	50.0	54.4		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	73.3	*	ug/Kg		147	60 - 145
1,2,3-Trichloropropane	50.0	54.7		ug/Kg		109	60 - 135
1,2,4-Trimethylbenzene	50.0	54.7		ug/Kg		109	70 - 125
1,3,5-Trimethylbenzene	50.0	55.7		ug/Kg		111	70 - 125
Vinyl chloride	50.0	51.4		ug/Kg		103	55 - 135
2-Butanone (MEK)	62.5	57.9		ug/Kg		93	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: LCS 440-311752/5
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.9		ug/Kg		100	65 - 120
Bromobenzene	50.0	60.1		ug/Kg		120	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-311752/5
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	54.0		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	64.9		ug/Kg		130	70 - 135
Bromoform	50.0	64.8		ug/Kg		130	55 - 135
Bromomethane	50.0	50.6		ug/Kg		101	60 - 145
Carbon tetrachloride	50.0	67.5		ug/Kg		135	65 - 140
Chlorobenzene	50.0	54.5		ug/Kg		109	75 - 120
Chloroethane	50.0	48.7		ug/Kg		97	60 - 140
Chloroform	50.0	60.5		ug/Kg		121	70 - 130
Chloromethane	50.0	45.5		ug/Kg		91	45 - 145
2-Chlorotoluene	50.0	59.8		ug/Kg		120	70 - 125
4-Chlorotoluene	50.0	60.7		ug/Kg		121	75 - 125
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	59.5		ug/Kg		119	75 - 125
Dibromochloromethane	50.0	62.0		ug/Kg		124	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	72.5	*	ug/Kg		145	50 - 135
1,2-Dibromoethane (EDB)	50.0	60.6		ug/Kg		121	70 - 130
Dibromomethane	50.0	60.2		ug/Kg		120	70 - 130
1,2-Dichlorobenzene	50.0	61.5	*	ug/Kg		123	75 - 120
1,3-Dichlorobenzene	50.0	59.7		ug/Kg		119	75 - 125
1,4-Dichlorobenzene	50.0	60.0		ug/Kg		120	75 - 120
Dichlorodifluoromethane	50.0	58.4		ug/Kg		117	35 - 160
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,2-Dichloroethane	50.0	67.9		ug/Kg		136	60 - 140
1,1-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	55.7		ug/Kg		111	70 - 125
2,2-Dichloropropane	50.0	64.6		ug/Kg		129	60 - 145
1,1-Dichloropropene	50.0	54.5		ug/Kg		109	70 - 130
Ethylbenzene	50.0	54.1		ug/Kg		108	70 - 125
Hexachlorobutadiene	50.0	64.4		ug/Kg		129	60 - 135
Isopropylbenzene	50.0	57.4		ug/Kg		115	75 - 130
Methylene Chloride	50.0	51.1		ug/Kg		102	55 - 135
m,p-Xylene	50.0	53.0		ug/Kg		106	70 - 125
Naphthalene	50.0	54.4		ug/Kg		109	55 - 135
n-Butylbenzene	50.0	59.5		ug/Kg		119	70 - 130
N-Propylbenzene	50.0	57.7		ug/Kg		115	70 - 130
o-Xylene	50.0	54.3		ug/Kg		109	70 - 125
p-Isopropyltoluene	50.0	60.0		ug/Kg		120	75 - 125
sec-Butylbenzene	50.0	57.6		ug/Kg		115	70 - 125
Styrene	50.0	61.1		ug/Kg		122	75 - 130
tert-Butylbenzene	50.0	60.2		ug/Kg		120	70 - 125
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/Kg		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.7		ug/Kg		115	55 - 140
Tetrachloroethene	50.0	51.9		ug/Kg		104	70 - 125
Toluene	50.0	50.5		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,3-Dichloropropene	50.0	63.8		ug/Kg		128	70 - 135
1,2,3-Trichlorobenzene	50.0	58.7		ug/Kg		117	60 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-311752/5
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	61.1		ug/Kg		122	70 - 135
1,1,1-Trichloroethane	50.0	64.3		ug/Kg		129	65 - 135
1,1,2-Trichloroethane	50.0	55.8		ug/Kg		112	65 - 135
Trichloroethene	50.0	54.5		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	67.8		ug/Kg		136	60 - 145
1,2,3-Trichloropropane	50.0	64.0		ug/Kg		128	60 - 135
1,2,4-Trimethylbenzene	50.0	60.4		ug/Kg		121	70 - 125
1,3,5-Trimethylbenzene	50.0	60.1		ug/Kg		120	70 - 125
Vinyl chloride	50.0	47.1		ug/Kg		94	55 - 135
2-Butanone (MEK)	62.5	65.7		ug/Kg		105	40 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*60 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Lab Sample ID: 440-137992-A-2 MS
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.9	49.8		ug/Kg		100	65 - 130
Bromobenzene	ND		49.9	53.7		ug/Kg		108	65 - 140
Bromochloromethane	ND		49.9	54.1		ug/Kg		108	65 - 145
Bromodichloromethane	ND		49.9	59.6		ug/Kg		119	65 - 145
Bromoform	ND		49.9	58.9		ug/Kg		118	50 - 145
Bromomethane	ND		49.9	51.0		ug/Kg		102	60 - 155
Carbon tetrachloride	ND		49.9	66.9		ug/Kg		134	60 - 145
Chlorobenzene	ND		49.9	51.8		ug/Kg		104	70 - 130
Chloroethane	ND		49.9	50.0		ug/Kg		100	60 - 150
Chloroform	ND		49.9	58.1		ug/Kg		116	65 - 135
Chloromethane	ND		49.9	43.9		ug/Kg		88	40 - 145
2-Chlorotoluene	ND		49.9	53.8		ug/Kg		108	60 - 135
4-Chlorotoluene	ND		49.9	54.9		ug/Kg		110	65 - 135
cis-1,2-Dichloroethene	ND		49.9	50.4		ug/Kg		101	65 - 135
cis-1,3-Dichloropropene	ND		49.9	56.9		ug/Kg		114	70 - 135
Dibromochloromethane	ND		49.9	57.8		ug/Kg		116	60 - 145
1,2-Dibromo-3-Chloropropane	ND	*	49.9	67.7		ug/Kg		136	40 - 150
1,2-Dibromoethane (EDB)	ND		49.9	58.5		ug/Kg		117	65 - 140
Dibromomethane	ND		49.9	57.4		ug/Kg		115	65 - 140
1,2-Dichlorobenzene	ND	*	49.9	53.6		ug/Kg		107	70 - 130
1,3-Dichlorobenzene	ND		49.9	52.3		ug/Kg		105	70 - 130
1,4-Dichlorobenzene	ND		49.9	51.7		ug/Kg		104	70 - 130
Dichlorodifluoromethane	ND		49.9	59.3		ug/Kg		119	30 - 160
1,1-Dichloroethane	ND		49.9	51.4		ug/Kg		103	65 - 135
1,2-Dichloroethane	ND		49.9	66.1		ug/Kg		132	60 - 150
1,1-Dichloroethene	ND		49.9	50.7		ug/Kg		102	65 - 135
1,2-Dichloropropane	ND		49.9	49.3		ug/Kg		99	65 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-137992-A-2 MS
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	ND		49.9	54.5		ug/Kg		109	65 - 140
2,2-Dichloropropane	ND		49.9	66.1		ug/Kg		132	65 - 150
1,1-Dichloropropene	ND		49.9	54.1		ug/Kg		108	65 - 135
Ethylbenzene	ND		49.9	51.9		ug/Kg		104	70 - 135
Hexachlorobutadiene	ND		49.9	52.5		ug/Kg		105	50 - 145
Isopropylbenzene	ND		49.9	54.1		ug/Kg		108	70 - 145
Methylene Chloride	ND		49.9	51.6		ug/Kg		104	55 - 145
m,p-Xylene	ND		49.9	50.7		ug/Kg		102	70 - 130
Naphthalene	ND		49.9	50.7		ug/Kg		102	40 - 150
n-Butylbenzene	ND		49.9	50.7		ug/Kg		102	55 - 145
N-Propylbenzene	ND		49.9	53.1		ug/Kg		106	65 - 140
o-Xylene	ND		49.9	50.4		ug/Kg		101	65 - 130
p-Isopropyltoluene	ND		49.9	53.5		ug/Kg		107	60 - 140
sec-Butylbenzene	ND		49.9	52.4		ug/Kg		105	60 - 135
Styrene	ND		49.9	55.4		ug/Kg		111	70 - 140
tert-Butylbenzene	ND		49.9	54.3		ug/Kg		109	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.9	52.3		ug/Kg		105	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.9	51.6		ug/Kg		103	40 - 160
Tetrachloroethene	ND		49.9	53.9		ug/Kg		108	65 - 135
Toluene	ND		49.9	50.8		ug/Kg		102	70 - 130
trans-1,2-Dichloroethene	ND		49.9	51.6		ug/Kg		103	70 - 135
trans-1,3-Dichloropropene	ND		49.9	60.8		ug/Kg		122	60 - 145
1,2,3-Trichlorobenzene	ND		49.9	50.4		ug/Kg		101	45 - 145
1,2,4-Trichlorobenzene	ND		49.9	52.6		ug/Kg		106	50 - 140
1,1,1-Trichloroethane	ND		49.9	64.9		ug/Kg		130	65 - 145
1,1,2-Trichloroethane	ND		49.9	53.5		ug/Kg		107	65 - 140
Trichloroethene	ND		49.9	54.6		ug/Kg		109	65 - 140
Trichlorofluoromethane	ND	*	49.9	71.4		ug/Kg		143	55 - 155
1,2,3-Trichloropropane	ND		49.9	58.1		ug/Kg		116	50 - 150
1,2,4-Trimethylbenzene	ND		49.9	55.3		ug/Kg		111	65 - 140
1,3,5-Trimethylbenzene	ND		49.9	54.3		ug/Kg		109	65 - 135
Vinyl chloride	ND		49.9	49.2		ug/Kg		99	55 - 140
2-Butanone (MEK)	ND		62.4	64.0		ug/Kg		103	25 - 170

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 440-137992-A-2 MSD
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		49.5	48.3		ug/Kg		98	65 - 130	3	20
Bromobenzene	ND		49.5	55.9		ug/Kg		113	65 - 140	4	25
Bromochloromethane	ND		49.5	53.3		ug/Kg		108	65 - 145	1	25
Bromodichloromethane	ND		49.5	60.1		ug/Kg		121	65 - 145	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-137992-A-2 MSD
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		49.5	57.6		ug/Kg		116	50 - 145	2	30
Bromomethane	ND		49.5	50.5		ug/Kg		102	60 - 155	1	25
Carbon tetrachloride	ND		49.5	66.4		ug/Kg		134	60 - 145	1	25
Chlorobenzene	ND		49.5	49.3		ug/Kg		100	70 - 130	5	25
Chloroethane	ND		49.5	48.5		ug/Kg		98	60 - 150	3	25
Chloroform	ND		49.5	57.1		ug/Kg		115	65 - 135	2	20
Chloromethane	ND		49.5	44.5		ug/Kg		90	40 - 145	1	25
2-Chlorotoluene	ND		49.5	55.7		ug/Kg		112	60 - 135	3	25
4-Chlorotoluene	ND		49.5	56.1		ug/Kg		113	65 - 135	2	25
cis-1,2-Dichloroethene	ND		49.5	48.9		ug/Kg		99	65 - 135	3	25
cis-1,3-Dichloropropene	ND		49.5	54.5		ug/Kg		110	70 - 135	4	25
Dibromochloromethane	ND		49.5	55.3		ug/Kg		112	60 - 145	4	25
1,2-Dibromo-3-Chloropropane	ND	*	49.5	69.5		ug/Kg		140	40 - 150	3	30
1,2-Dibromoethane (EDB)	ND		49.5	55.2		ug/Kg		112	65 - 140	6	25
Dibromomethane	ND		49.5	56.8		ug/Kg		115	65 - 140	1	25
1,2-Dichlorobenzene	ND	*	49.5	53.7		ug/Kg		108	70 - 130	0	25
1,3-Dichlorobenzene	ND		49.5	52.2		ug/Kg		105	70 - 130	0	25
1,4-Dichlorobenzene	ND		49.5	51.8		ug/Kg		105	70 - 130	0	25
Dichlorodifluoromethane	ND		49.5	57.6		ug/Kg		116	30 - 160	3	35
1,1-Dichloroethane	ND		49.5	50.4		ug/Kg		102	65 - 135	2	25
1,2-Dichloroethane	ND		49.5	64.8		ug/Kg		131	60 - 150	2	25
1,1-Dichloroethene	ND		49.5	49.1		ug/Kg		99	65 - 135	3	25
1,2-Dichloropropane	ND		49.5	48.9		ug/Kg		99	65 - 130	1	20
1,3-Dichloropropane	ND		49.5	50.8		ug/Kg		103	65 - 140	7	25
2,2-Dichloropropane	ND		49.5	68.2		ug/Kg		138	65 - 150	3	25
1,1-Dichloropropene	ND		49.5	53.3		ug/Kg		108	65 - 135	1	20
Ethylbenzene	ND		49.5	50.4		ug/Kg		102	70 - 135	3	25
Hexachlorobutadiene	ND		49.5	46.8		ug/Kg		95	50 - 145	11	35
Isopropylbenzene	ND		49.5	50.6		ug/Kg		102	70 - 145	7	25
Methylene Chloride	ND		49.5	50.6		ug/Kg		102	55 - 145	2	25
m,p-Xylene	ND		49.5	48.6		ug/Kg		98	70 - 130	4	25
Naphthalene	ND		49.5	50.1		ug/Kg		101	40 - 150	1	40
n-Butylbenzene	ND		49.5	50.3		ug/Kg		102	55 - 145	1	30
N-Propylbenzene	ND		49.5	54.6		ug/Kg		110	65 - 140	3	25
o-Xylene	ND		49.5	47.7		ug/Kg		96	65 - 130	5	25
p-Isopropyltoluene	ND		49.5	52.4		ug/Kg		106	60 - 140	2	25
sec-Butylbenzene	ND		49.5	51.6		ug/Kg		104	60 - 135	2	25
Styrene	ND		49.5	52.6		ug/Kg		106	70 - 140	5	25
tert-Butylbenzene	ND		49.5	55.5		ug/Kg		112	60 - 140	2	25
1,1,1,2-Tetrachloroethane	ND		49.5	51.1		ug/Kg		103	65 - 145	2	20
1,1,2,2-Tetrachloroethane	ND		49.5	51.1		ug/Kg		103	40 - 160	1	30
Tetrachloroethene	ND		49.5	51.4		ug/Kg		104	65 - 135	5	25
Toluene	ND		49.5	48.4		ug/Kg		98	70 - 130	5	20
trans-1,2-Dichloroethene	ND		49.5	50.6		ug/Kg		102	70 - 135	2	25
trans-1,3-Dichloropropene	ND		49.5	56.7		ug/Kg		115	60 - 145	7	25
1,2,3-Trichlorobenzene	ND		49.5	49.5		ug/Kg		100	45 - 145	2	30
1,2,4-Trichlorobenzene	ND		49.5	51.3		ug/Kg		104	50 - 140	3	30
1,1,1-Trichloroethane	ND		49.5	65.3		ug/Kg		132	65 - 145	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-137992-A-2 MSD
Matrix: Solid
Analysis Batch: 311752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		49.5	49.3		ug/Kg		100	65 - 140	8	30
Trichloroethene	ND		49.5	54.9		ug/Kg		111	65 - 140	1	25
Trichlorofluoromethane	ND	*	49.5	70.1		ug/Kg		142	55 - 155	2	25
1,2,3-Trichloropropane	ND		49.5	60.1		ug/Kg		121	50 - 150	3	30
1,2,4-Trimethylbenzene	ND		49.5	55.7		ug/Kg		112	65 - 140	1	25
1,3,5-Trimethylbenzene	ND		49.5	56.7		ug/Kg		114	65 - 135	4	25
Vinyl chloride	ND		49.5	48.6		ug/Kg		98	55 - 140	1	30
2-Butanone (MEK)	ND		61.9	60.5		ug/Kg		98	25 - 170	6	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*60 - 120*
Toluene-d8 (Surr)	*101*		*79 - 123*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-311453/1-A
Matrix: Solid
Analysis Batch: 311963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Acenaphthylene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Aniline	ND		420	85	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Anthracene	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzidine	ND		1300	660	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzo[a]anthracene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzo[a]pyrene	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzo[b]fluoranthene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzo[g,h,i]perylene	ND		330	110	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzoic acid	ND		830	340	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzo[k]fluoranthene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Benzyl alcohol	ND		330	150	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Bis(2-chloroethoxy)methane	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Bis(2-chloroethyl)ether	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
bis (2-chloroisopropyl) ether	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Bis(2-ethylhexyl) phthalate	ND		330	90	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Bromophenyl phenyl ether	ND		330	75	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Butyl benzyl phthalate	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Chloroaniline	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Chloro-3-methylphenol	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Chloronaphthalene	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Chlorophenol	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Chlorophenyl phenyl ether	ND		330	85	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Chrysene	ND		330	75	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Dibenz(a,h)anthracene	ND		420	100	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Dibenzofuran	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
1,2-Dichlorobenzene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-311453/1-A
Matrix: Solid
Analysis Batch: 311963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
1,4-Dichlorobenzene	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
3,3'-Dichlorobenzidine	ND		830	150	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4-Dichlorophenol	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Diethyl phthalate	ND		330	95	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4-Dimethylphenol	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Dimethyl phthalate	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Di-n-butyl phthalate	ND		330	90	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4,6-Dinitro-2-methylphenol	ND		420	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4-Dinitrophenol	ND		660	330	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4-Dinitrotoluene	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,6-Dinitrotoluene	ND		330	95	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Di-n-octyl phthalate	ND		330	90	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Fluoranthene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Fluorene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Hexachlorobenzene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Hexachlorobutadiene	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Hexachlorocyclopentadiene	ND		830	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Hexachloroethane	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Indeno[1,2,3-cd]pyrene	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Isophorone	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Methylnaphthalene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Methylphenol	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
3-Methylphenol + 4-Methylphenol	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Naphthalene	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Nitroaniline	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
3-Nitroaniline	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Nitroaniline	ND		830	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Nitrobenzene	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2-Nitrophenol	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
4-Nitrophenol	ND		830	140	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
N-Nitrosodimethylamine	ND		330	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
N-Nitrosodi-n-propylamine	ND		250	70	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
N-Nitrosodiphenylamine	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Pentachlorophenol	ND		830	340	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Phenanthrene	ND		330	67	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Phenol	ND		330	90	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
Pyrene	ND		330	80	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
1,2,4-Trichlorobenzene	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4,5-Trichlorophenol	ND		330	130	ug/Kg		02/15/16 17:39	02/17/16 21:01	1
2,4,6-Trichlorophenol	ND		330	75	ug/Kg		02/15/16 17:39	02/17/16 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*42 - 113*	*02/15/16 17:39*	*02/17/16 21:01*	*1*
2-Fluorophenol (Surr)	*94*		*18 - 138*	*02/15/16 17:39*	*02/17/16 21:01*	*1*
Nitrobenzene-d5 (Surr)	*80*		*39 - 104*	*02/15/16 17:39*	*02/17/16 21:01*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-311453/1-A
Matrix: Solid
Analysis Batch: 311963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311453

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	83		37 - 125	02/15/16 17:39	02/17/16 21:01	1
Terphenyl-d14 (Surr)	92		43 - 125	02/15/16 17:39	02/17/16 21:01	1
2,4,6-Tribromophenol (Surr)	81		10 - 147	02/15/16 17:39	02/17/16 21:01	1

Lab Sample ID: LCS 440-311453/2-A
Matrix: Solid
Analysis Batch: 311963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2480		ug/Kg		74	40 - 118
Acenaphthylene	3330	2510		ug/Kg		75	47 - 125
Aniline	3330	1580		ug/Kg		47	23 - 105
Anthracene	3330	2760		ug/Kg		83	51 - 122
Benzidine	3330	831	J	ug/Kg		25	5 - 61
Benzo[a]anthracene	3330	2590		ug/Kg		78	50 - 123
Benzo[a]pyrene	3330	2260		ug/Kg		68	52 - 125
Benzo[b]fluoranthene	3330	2240		ug/Kg		67	52 - 125
Benzo[g,h,i]perylene	3330	2490		ug/Kg		75	38 - 149
Benzoic acid	3330	2510		ug/Kg		75	28 - 120
Benzo[k]fluoranthene	3330	2210		ug/Kg		66	50 - 132
Benzyl alcohol	3330	1770		ug/Kg		53	20 - 133
Bis(2-chloroethoxy)methane	3330	2350		ug/Kg		71	39 - 119
Bis(2-chloroethyl)ether	3330	2210		ug/Kg		66	32 - 114
bis (2-chloroisopropyl) ether	3330	2170		ug/Kg		65	25 - 116
Bis(2-ethylhexyl) phthalate	3330	2500		ug/Kg		75	49 - 127
4-Bromophenyl phenyl ether	3330	2780		ug/Kg		83	52 - 126
Butyl benzyl phthalate	3330	2610		ug/Kg		78	48 - 130
4-Chloroaniline	3330	1910		ug/Kg		57	25 - 130
4-Chloro-3-methylphenol	3330	2500		ug/Kg		75	45 - 128
2-Chloronaphthalene	3330	2610		ug/Kg		78	43 - 120
2-Chlorophenol	3330	2620		ug/Kg		79	43 - 125
4-Chlorophenyl phenyl ether	3330	2720		ug/Kg		82	46 - 121
Chrysene	3330	2700		ug/Kg		81	51 - 127
Dibenz(a,h)anthracene	3330	2410		ug/Kg		72	45 - 136
Dibenzofuran	3330	2540		ug/Kg		76	47 - 120
1,2-Dichlorobenzene	3330	2020		ug/Kg		60	38 - 110
1,3-Dichlorobenzene	3330	1850		ug/Kg		55	37 - 106
1,4-Dichlorobenzene	3330	1900		ug/Kg		57	37 - 108
3,3'-Dichlorobenzidine	3330	2390		ug/Kg		72	28 - 114
2,4-Dichlorophenol	3330	2700		ug/Kg		81	49 - 127
Diethyl phthalate	3330	2700		ug/Kg		81	46 - 122
2,4-Dimethylphenol	3330	2650		ug/Kg		80	41 - 122
Dimethyl phthalate	3330	2620		ug/Kg		79	48 - 122
Di-n-butyl phthalate	3330	2440		ug/Kg		73	43 - 128
4,6-Dinitro-2-methylphenol	6670	5580		ug/Kg		84	38 - 137
2,4-Dinitrophenol	6670	5120		ug/Kg		77	34 - 124
2,4-Dinitrotoluene	3330	2720		ug/Kg		82	46 - 126
2,6-Dinitrotoluene	3330	2540		ug/Kg		76	48 - 126

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-311453/2-A
Matrix: Solid
Analysis Batch: 311963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	3330	2460		ug/Kg		74	47 - 133
1,2-Diphenylhydrazine(as Azobenzene)	3370	2600		ug/Kg		77	38 - 121
Fluoranthene	3330	2560		ug/Kg		77	44 - 123
Fluorene	3330	2680		ug/Kg		80	48 - 123
Hexachlorobenzene	3330	2670		ug/Kg		80	52 - 125
Hexachlorobutadiene	3330	2320		ug/Kg		69	40 - 114
Hexachlorocyclopentadiene	3330	2050		ug/Kg		61	17 - 119
Hexachloroethane	3330	1920		ug/Kg		58	34 - 107
Indeno[1,2,3-cd]pyrene	3330	2450		ug/Kg		73	46 - 148
Isophorone	3330	2180		ug/Kg		65	38 - 119
2-Methylnaphthalene	3330	2190		ug/Kg		66	44 - 119
2-Methylphenol	3330	2650		ug/Kg		80	42 - 130
3-Methylphenol + 4-Methylphenol	3330	2640		ug/Kg		79	42 - 138
Naphthalene	3330	2190		ug/Kg		66	42 - 115
2-Nitroaniline	3330	2630		ug/Kg		79	40 - 131
3-Nitroaniline	3330	2510		ug/Kg		75	39 - 129
4-Nitroaniline	3330	2630		ug/Kg		79	40 - 126
Nitrobenzene	3330	2260		ug/Kg		68	38 - 116
2-Nitrophenol	3330	2420		ug/Kg		73	44 - 124
4-Nitrophenol	6670	3480		ug/Kg		52	35 - 130
N-Nitrosodimethylamine	3330	1910		ug/Kg		57	28 - 107
N-Nitrosodi-n-propylamine	3330	2320		ug/Kg		70	31 - 124
N-Nitrosodiphenylamine	3330	2660		ug/Kg		80	48 - 130
Pentachlorophenol	6670	5120		ug/Kg		77	40 - 121
Phenanthrene	3330	2580		ug/Kg		77	51 - 122
Phenol	3330	2830		ug/Kg		85	42 - 133
Pyrene	3330	2630		ug/Kg		79	54 - 127
1,2,4-Trichlorobenzene	3330	2270		ug/Kg		68	42 - 111
2,4,5-Trichlorophenol	3330	2750		ug/Kg		82	51 - 125
2,4,6-Trichlorophenol	3330	2690		ug/Kg		81	48 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*42 - 113*
2-Fluorophenol (Surr)	*85*		*18 - 138*
Nitrobenzene-d5 (Surr)	*72*		*39 - 104*
Phenol-d6 (Surr)	*84*		*37 - 125*
Terphenyl-d14 (Surr)	*91*		*43 - 125*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 147*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-311693/1-A
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 440-311693/1-A
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Anthracene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Chrysene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Fluoranthene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Fluorene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Naphthalene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Phenanthrene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1
Pyrene	ND		30	4.0	ug/Kg		02/16/16 16:49	02/22/16 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 111*	*02/16/16 16:49*	*02/22/16 11:30*	*1*
Nitrobenzene-d5	*84*		*41 - 119*	*02/16/16 16:49*	*02/22/16 11:30*	*1*
Terphenyl-d14	*86*		*43 - 150*	*02/16/16 16:49*	*02/22/16 11:30*	*1*

Lab Sample ID: LCS 440-311693/2-A
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	66.7	38.8		ug/Kg		58	53 - 120
Acenaphthylene	66.7	39.4		ug/Kg		59	54 - 120
Anthracene	66.7	39.0		ug/Kg		58	53 - 120
Benzo[a]anthracene	66.7	39.6		ug/Kg		59	56 - 120
Benzo[a]pyrene	66.7	40.6		ug/Kg		61	53 - 120
Benzo[b]fluoranthene	66.7	41.8		ug/Kg		63	53 - 120
Benzo[g,h,i]perylene	66.7	47.9		ug/Kg		72	51 - 150
Benzo[k]fluoranthene	66.7	46.8		ug/Kg		70	53 - 124
Chrysene	66.7	39.9		ug/Kg		60	56 - 120
Dibenz(a,h)anthracene	66.7	44.9		ug/Kg		67	51 - 131
Fluoranthene	66.7	48.2		ug/Kg		72	57 - 120
Fluorene	66.7	42.1		ug/Kg		63	54 - 120
Indeno[1,2,3-cd]pyrene	66.7	44.7		ug/Kg		67	50 - 137
Naphthalene	66.7	40.3		ug/Kg		60	49 - 120
Phenanthrene	66.7	40.7		ug/Kg		61	55 - 120
Pyrene	66.7	34.9	*	ug/Kg		52	56 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*56*		*39 - 111*
Nitrobenzene-d5	*58*		*41 - 119*
Terphenyl-d14	*63*		*43 - 150*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 440-138115-5 MS
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 311693

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		146	90.7		ug/Kg	☼	62	45 - 120
Acenaphthylene	ND		146	92.7		ug/Kg	☼	63	45 - 120
Anthracene	ND		146	91.4		ug/Kg	☼	62	55 - 120
Benzo[a]anthracene	ND		146	98.9		ug/Kg	☼	68	50 - 120
Benzo[a]pyrene	ND		146	92.5		ug/Kg	☼	63	45 - 125
Benzo[b]fluoranthene	10	J	146	107		ug/Kg	☼	66	45 - 125
Benzo[g,h,i]perylene	ND		146	87.7		ug/Kg	☼	60	25 - 130
Benzo[k]fluoranthene	ND		146	101		ug/Kg	☼	69	45 - 125
Chrysene	12	J	146	105		ug/Kg	☼	64	55 - 120
Dibenz(a,h)anthracene	ND		146	85.8		ug/Kg	☼	59	25 - 135
Fluoranthene	19	J	146	129		ug/Kg	☼	75	45 - 120
Fluorene	ND		146	101		ug/Kg	☼	69	50 - 120
Indeno[1,2,3-cd]pyrene	ND		146	86.9		ug/Kg	☼	59	20 - 130
Naphthalene	ND		146	92.7		ug/Kg	☼	63	40 - 120
Phenanthrene	ND		146	108		ug/Kg	☼	74	50 - 120
Pyrene	ND	*	146	95.1		ug/Kg	☼	65	40 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*61*		*39 - 111*
Nitrobenzene-d5	*61*		*41 - 119*
Terphenyl-d14	*72*		*43 - 150*

Lab Sample ID: 440-138115-5 MSD
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 311693

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		151	104		ug/Kg	☼	69	45 - 120	14	25
Acenaphthylene	ND		151	105		ug/Kg	☼	69	45 - 120	12	20
Anthracene	ND		151	101		ug/Kg	☼	67	55 - 120	10	25
Benzo[a]anthracene	ND		151	115		ug/Kg	☼	76	50 - 120	15	25
Benzo[a]pyrene	ND		151	108		ug/Kg	☼	71	45 - 125	15	25
Benzo[b]fluoranthene	10	J	151	124		ug/Kg	☼	75	45 - 125	15	30
Benzo[g,h,i]perylene	ND		151	106		ug/Kg	☼	70	25 - 130	19	30
Benzo[k]fluoranthene	ND		151	124		ug/Kg	☼	82	45 - 125	21	30
Chrysene	12	J	151	117		ug/Kg	☼	69	55 - 120	10	25
Dibenz(a,h)anthracene	ND		151	100		ug/Kg	☼	66	25 - 135	15	30
Fluoranthene	19	J	151	141		ug/Kg	☼	80	45 - 120	9	25
Fluorene	ND		151	114		ug/Kg	☼	76	50 - 120	12	25
Indeno[1,2,3-cd]pyrene	ND		151	102		ug/Kg	☼	68	20 - 130	16	30
Naphthalene	ND		151	115		ug/Kg	☼	76	40 - 120	21	25
Phenanthrene	ND		151	116		ug/Kg	☼	77	50 - 120	7	25
Pyrene	ND	*	151	106		ug/Kg	☼	70	40 - 125	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*39 - 111*
Nitrobenzene-d5	*62*		*41 - 119*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 440-138115-5 MSD
Matrix: Solid
Analysis Batch: 312709

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 311693

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*76*		*43 - 150*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-312557/29
Matrix: Solid
Analysis Batch: 312557

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			02/20/16 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*		*02/20/16 22:53*	*1*

Lab Sample ID: LCS 440-312557/27
Matrix: Solid
Analysis Batch: 312557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1310		ug/Kg		82	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*

Lab Sample ID: LCSD 440-312557/28
Matrix: Solid
Analysis Batch: 312557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1300		ug/Kg		81	70 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*

Lab Sample ID: 440-136732-A-1 MS
Matrix: Solid
Analysis Batch: 312557

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	220	J F1	1600	1010	F1	ug/Kg		49	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-136732-A-1 MSD
Matrix: Solid
Analysis Batch: 312557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	220	J F1	1590	1030	F1	ug/Kg		50	60 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-312572/1-A
Matrix: Solid
Analysis Batch: 312722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		02/20/16 17:06	02/22/16 07:59	1
C23-C40	ND		5.0	2.5	mg/Kg		02/20/16 17:06	02/22/16 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*107*		*40 - 140*	*02/20/16 17:06*	*02/22/16 07:59*	*1*

Lab Sample ID: LCS 440-312572/2-A
Matrix: Solid
Analysis Batch: 312722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312572

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	58.0		mg/Kg		87	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*102*		*40 - 140*

Lab Sample ID: 440-138628-H-2-B MS
Matrix: Solid
Analysis Batch: 312722

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 312572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	3.6	J B	66.4	59.6		mg/Kg		84	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*101*		*40 - 140*

Lab Sample ID: 440-138628-H-2-C MSD
Matrix: Solid
Analysis Batch: 312722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 312572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	3.6	J B	65.7	56.0		mg/Kg		80	40 - 120	6	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-138628-H-2-C MSD
Matrix: Solid
Analysis Batch: 312722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 312572

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	*97*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-311435/1-A
Matrix: Solid
Analysis Batch: 311854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Aldrin	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
alpha-BHC	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
beta-BHC	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Chlordane (technical)	ND		50	10	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
delta-BHC	ND		10	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Dieldrin	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endosulfan I	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endosulfan II	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endrin	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Endrin ketone	ND		5.0	2.0	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Heptachlor	ND		5.0	2.0	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Methoxychlor	ND		5.0	1.5	ug/Kg		02/15/16 16:51	02/17/16 13:24	1
Toxaphene	ND		200	50	ug/Kg		02/15/16 16:51	02/17/16 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*37*		*35 - 115*	*02/15/16 16:51*	*02/17/16 13:24*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*	*02/15/16 16:51*	*02/17/16 13:24*	*1*

Lab Sample ID: LCS 440-311435/2-A
Matrix: Solid
Analysis Batch: 311854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	10.9		ug/Kg		82	59 - 118
4,4'-DDE	13.3	8.61		ug/Kg		65	55 - 108
4,4'-DDT	13.3	9.40		ug/Kg		71	51 - 131
Aldrin	13.3	6.99		ug/Kg		52	46 - 96
alpha-BHC	13.3	7.94		ug/Kg		60	38 - 115
beta-BHC	13.3	8.79		ug/Kg		66	46 - 111
delta-BHC	13.3	8.84	J	ug/Kg		66	52 - 108
Dieldrin	13.3	8.97		ug/Kg		67	57 - 112

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-311435/2-A
Matrix: Solid
Analysis Batch: 311854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I	13.3	8.90		ug/Kg		67	56 - 107
Endosulfan II	13.3	7.83		ug/Kg		59	49 - 117
Endosulfan sulfate	13.3	8.69	J	ug/Kg		65	54 - 113
Endrin	13.3	10.3		ug/Kg		78	56 - 120
Endrin aldehyde	13.3	7.42		ug/Kg		56	41 - 105
Endrin ketone	13.3	8.61		ug/Kg		65	54 - 119
gamma-BHC (Lindane)	13.3	8.15		ug/Kg		61	49 - 103
Heptachlor	13.3	7.30		ug/Kg		55	52 - 113
Heptachlor epoxide	13.3	8.64		ug/Kg		65	38 - 128
Methoxychlor	13.3	9.75		ug/Kg		73	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*50*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*

Lab Sample ID: 440-138168-A-1-A MS
Matrix: Solid
Analysis Batch: 311854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	9.44		ug/Kg		71	40 - 130
4,4'-DDE	ND		13.2	8.82		ug/Kg		67	35 - 130
4,4'-DDT	ND		13.2	9.29		ug/Kg		70	35 - 130
Aldrin	ND		13.2	7.17		ug/Kg		54	40 - 115
alpha-BHC	ND		13.2	7.01		ug/Kg		53	40 - 115
beta-BHC	ND		13.2	8.26		ug/Kg		63	40 - 120
delta-BHC	ND		13.2	8.35	J	ug/Kg		63	45 - 120
Dieldrin	ND		13.2	7.92		ug/Kg		60	40 - 125
Endosulfan I	ND		13.2	8.00		ug/Kg		61	40 - 120
Endosulfan II	ND		13.2	6.71		ug/Kg		51	40 - 125
Endosulfan sulfate	ND		13.2	7.97	J	ug/Kg		60	45 - 120
Endrin	ND		13.2	9.38		ug/Kg		71	45 - 125
Endrin aldehyde	ND		13.2	7.12		ug/Kg		54	30 - 120
Endrin ketone	ND		13.2	7.84		ug/Kg		59	40 - 120
gamma-BHC (Lindane)	ND		13.2	7.43		ug/Kg		56	40 - 120
Heptachlor	ND		13.2	6.89		ug/Kg		52	40 - 115
Heptachlor epoxide	ND		13.2	7.92		ug/Kg		60	45 - 115
Methoxychlor	ND		13.2	9.87		ug/Kg		75	40 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*46*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-138168-A-1-B MSD
Matrix: Solid
Analysis Batch: 311854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.3	8.62		ug/Kg		65	40 - 130	9	30
4,4'-DDE	ND		13.3	8.30		ug/Kg		62	35 - 130	6	30
4,4'-DDT	ND		13.3	8.38		ug/Kg		63	35 - 130	10	30
Aldrin	ND		13.3	6.92		ug/Kg		52	40 - 115	4	30
alpha-BHC	ND		13.3	6.78		ug/Kg		51	40 - 115	3	30
beta-BHC	ND		13.3	7.72		ug/Kg		58	40 - 120	7	30
delta-BHC	ND		13.3	8.02	J	ug/Kg		60	45 - 120	4	30
Dieldrin	ND		13.3	7.38		ug/Kg		56	40 - 125	7	30
Endosulfan I	ND		13.3	7.54		ug/Kg		57	40 - 120	6	30
Endosulfan II	ND		13.3	6.16		ug/Kg		46	40 - 125	9	30
Endosulfan sulfate	ND		13.3	6.82	J	ug/Kg		51	45 - 120	16	30
Endrin	ND		13.3	8.69		ug/Kg		65	45 - 125	8	30
Endrin aldehyde	ND		13.3	6.60		ug/Kg		50	30 - 120	8	30
Endrin ketone	ND		13.3	7.15		ug/Kg		54	40 - 120	9	30
gamma-BHC (Lindane)	ND		13.3	7.18		ug/Kg		54	40 - 120	3	30
Heptachlor	ND		13.3	6.41		ug/Kg		48	40 - 115	7	30
Heptachlor epoxide	ND		13.3	7.56		ug/Kg		57	45 - 115	5	30
Methoxychlor	ND		13.3	7.80		ug/Kg		59	40 - 135	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*42*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-311435/1-A
Matrix: Solid
Analysis Batch: 311677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1221	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1232	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1242	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1248	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1254	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1
Aroclor 1260	ND		50	17	ug/Kg		02/15/16 16:51	02/16/16 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*02/15/16 16:51*	*02/16/16 21:30*	*1*

Lab Sample ID: LCS 440-311435/5-A
Matrix: Solid
Analysis Batch: 311677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	277		ug/Kg		104	65 - 115		

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-311435/5-A
Matrix: Solid
Analysis Batch: 311677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1260			267	284		ug/Kg		106	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*

Lab Sample ID: 440-137630-A-1-G MS
Matrix: Solid
Analysis Batch: 311677

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		263	218		ug/Kg		83	50 - 120		
Aroclor 1260	ND		263	221		ug/Kg		84	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*

Lab Sample ID: 440-137630-A-1-H MSD
Matrix: Solid
Analysis Batch: 311677

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		264	203		ug/Kg		77	50 - 120	7	30
Aroclor 1260	ND		264	208		ug/Kg		79	50 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-312928/5
Matrix: Solid
Analysis Batch: 312928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	3.47	J	ug/L		87	75 - 125		

Lab Sample ID: MB 440-312969/1-A
Matrix: Solid
Analysis Batch: 312928

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.040	0.0095	mg/Kg			02/23/16 10:09	1

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: LCS 440-312969/2-A
Matrix: Solid
Analysis Batch: 312928

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.499	0.477		mg/Kg		96	85 - 115

Lab Sample ID: LCSD 440-312969/3-A
Matrix: Solid
Analysis Batch: 312928

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.501	0.487		mg/Kg		97	85 - 115	2	15

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 440-312481/1-A
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.1	0.80	mg/Kg			02/19/16 20:13	1
Nitrite as N	ND		1.5	1.1	mg/Kg			02/19/16 20:13	1
Nitrate as NO3	ND		5.0	3.5	mg/Kg			02/19/16 20:13	1
Orthophosphorus as PO4	ND		5.0	4.0	mg/Kg			02/19/16 20:13	1

Lab Sample ID: LCS 440-312481/2-A
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	11.3	11.6		mg/Kg		103	90 - 110
Nitrite as N	15.2	15.5		mg/Kg		102	90 - 110
Nitrate as NO3	50.0	51.4		mg/Kg		103	90 - 110
Orthophosphorus as PO4	50.0	50.9		mg/Kg		102	90 - 110

Lab Sample ID: 440-135828-C-1-G MS
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND	F1	53.5	42.0	F1	mg/Kg	☼	78	80 - 120
Nitrite as N	30		72.1	108		mg/Kg	☼	108	80 - 120
Nitrate as NO3	ND	F1	237	186	F1	mg/Kg	☼	78	80 - 120
Orthophosphorus as PO4	470	F1	237	544	F1	mg/Kg	☼	30	80 - 120

Lab Sample ID: 440-135828-C-1-H MSD
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND	F1	53.4	43.4		mg/Kg	☼	81	80 - 120	3	20
Nitrite as N	30		72.0	108		mg/Kg	☼	109	80 - 120	0	20
Nitrate as NO3	ND	F1	236	192		mg/Kg	☼	81	80 - 120	3	20

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-135828-C-1-H MSD
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphorus as PO4	470	F1	236	595	F1	mg/Kg	☼	51	80 - 120	9	20

Lab Sample ID: 440-137330-A-1-I MS
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.7	F1	12.1	20.7	F1	mg/Kg	☼	133	80 - 120
Nitrate as NO3	21	F1	53.5	91.6	F1	mg/Kg	☼	133	80 - 120
Orthophosphorus as PO4	120		53.5	180		mg/Kg	☼	108	80 - 120

Lab Sample ID: 440-137330-A-1-J MSD
Matrix: Solid
Analysis Batch: 312491

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	4.7	F1	12.0	19.0		mg/Kg	☼	119	80 - 120	9	20
Nitrate as NO3	21	F1	53.2	83.9		mg/Kg	☼	119	80 - 120	9	20
Orthophosphorus as PO4	120		53.2	164		mg/Kg	☼	80	80 - 120	9	20

Lab Sample ID: MB 440-312481/1-A
Matrix: Solid
Analysis Batch: 312492

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.0	3.5	mg/Kg			02/19/16 20:13	1
Chloride	ND		5.0	4.0	mg/Kg			02/19/16 20:13	1
Fluoride	ND		5.0	3.5	mg/Kg			02/19/16 20:13	1
Sulfate	ND		5.0	4.0	mg/Kg			02/19/16 20:13	1

Lab Sample ID: LCS 440-312481/2-A
Matrix: Solid
Analysis Batch: 312492

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	50.0	51.0		mg/Kg		102	90 - 110
Chloride	50.0	47.6		mg/Kg		95	90 - 110
Fluoride	50.0	47.1		mg/Kg		94	90 - 110
Sulfate	50.0	50.3		mg/Kg		101	90 - 110

Lab Sample ID: 440-135828-C-1-G MS
Matrix: Solid
Analysis Batch: 312492

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		49.8	40.3		mg/Kg		81	80 - 120
Fluoride	ND	F1	49.8	22.9	F1	mg/Kg		46	80 - 120
Sulfate	20	F1	49.8	55.3	F1	mg/Kg		71	80 - 120

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-135828-C-1-H MSD
Matrix: Solid
Analysis Batch: 312492

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		49.6	41.9		mg/Kg		84	80 - 120	4	20
Fluoride	ND	F1	49.6	23.7	F1	mg/Kg		48	80 - 120	3	20
Sulfate	20	F1	49.6	54.5	F1	mg/Kg		69	80 - 120	1	20

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-100688/1-A
Matrix: Solid
Analysis Batch: 101771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100688

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.041	pg/g		02/18/16 04:05	02/25/16 18:17	1
2,3,7,8-TCDF	ND		1.0	0.028	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,7,8-PeCDD	ND		5.0	0.055	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,7,8-PeCDF	ND		5.0	0.035	pg/g		02/18/16 04:05	02/25/16 18:17	1
2,3,4,7,8-PeCDF	ND		5.0	0.036	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.035	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.034	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.029	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.030	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.028	pg/g		02/18/16 04:05	02/25/16 18:17	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.030	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.031	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,4,6,7,8-HpCDD	0.144	J q	5.0	0.038	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,4,6,7,8-HpCDF	0.124	J q	5.0	0.037	pg/g		02/18/16 04:05	02/25/16 18:17	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.047	pg/g		02/18/16 04:05	02/25/16 18:17	1
OCDD	0.758	J q	10	0.048	pg/g		02/18/16 04:05	02/25/16 18:17	1
OCDF	0.307	J q	10	0.047	pg/g		02/18/16 04:05	02/25/16 18:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*68*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-2,3,7,8-TCDF	*67*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,7,8-PeCDD	*68*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,7,8-PeCDF	*67*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,6,7,8-HxCDD	*68*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,4,7,8-HxCDF	*66*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*74*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*
13C-OCDD	*78*		*40 - 135*	*02/18/16 04:05*	*02/25/16 18:17*	*1*

Lab Sample ID: LCS 320-100688/2-A
Matrix: Solid
Analysis Batch: 101771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	20.9		pg/g		104	60 - 138
2,3,7,8-TCDF	20.0	21.4		pg/g		107	56 - 158
1,2,3,7,8-PeCDD	100	105		pg/g		105	70 - 122

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-100688/2-A
Matrix: Solid
Analysis Batch: 101771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,7,8-PeCDF	100	112		pg/g		112	69 - 134
2,3,4,7,8-PeCDF	100	108		pg/g		108	70 - 131
1,2,3,4,7,8-HxCDD	100	99.2		pg/g		99	60 - 138
1,2,3,6,7,8-HxCDD	100	105		pg/g		105	68 - 136
1,2,3,7,8,9-HxCDD	100	103		pg/g		103	68 - 138
1,2,3,4,7,8-HxCDF	100	112		pg/g		112	74 - 128
1,2,3,6,7,8-HxCDF	100	114		pg/g		114	67 - 140
2,3,4,6,7,8-HxCDF	100	113		pg/g		113	71 - 137
1,2,3,7,8,9-HxCDF	100	113		pg/g		113	72 - 134
1,2,3,4,6,7,8-HpCDD	100	109		pg/g		109	71 - 128
1,2,3,4,6,7,8-HpCDF	100	106		pg/g		106	71 - 134
1,2,3,4,7,8,9-HpCDF	100	118		pg/g		118	68 - 129
OCDD	200	216		pg/g		108	70 - 128
OCDF	200	222		pg/g		111	63 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*79*		*40 - 135*
13C-2,3,7,8-TCDF	*78*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*82*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*89*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*
13C-OCDD	*95*		*40 - 135*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-311557/1-A ^5
Matrix: Solid
Analysis Batch: 312276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.5	0.75	mg/Kg		02/16/16 09:09	02/18/16 19:52	5

Lab Sample ID: MB 440-311557/1-A ^5
Matrix: Solid
Analysis Batch: 312671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Chromium	ND		1.0	0.50	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Iron	ND		10	5.0	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Magnesium	ND		10	5.0	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Manganese	ND		2.0	1.0	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Titanium	ND		2.0	1.0	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Cadmium	ND		0.50	0.25	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Barium	ND		1.5	0.75	mg/Kg		02/16/16 09:09	02/21/16 13:55	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-311557/1-A ^5
Matrix: Solid
Analysis Batch: 312671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	1.0	mg/Kg		02/16/16 09:09	02/21/16 13:55	5
Selenium	ND		3.0	1.5	mg/Kg		02/16/16 09:09	02/21/16 13:55	5

Lab Sample ID: LCS 440-311557/2-A ^5
Matrix: Solid
Analysis Batch: 312276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.8	20.9		mg/Kg		84	80 - 120

Lab Sample ID: LCS 440-311557/2-A ^5
Matrix: Solid
Analysis Batch: 312671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	48.0		mg/Kg		97	80 - 120
Chromium	49.5	49.7		mg/Kg		100	80 - 120
Iron	49.5	50.0		mg/Kg		101	80 - 120
Magnesium	248	245		mg/Kg		99	80 - 120
Manganese	49.5	49.3		mg/Kg		100	80 - 120
Titanium	49.5	48.8		mg/Kg		99	80 - 120
Cadmium	49.5	47.9		mg/Kg		97	80 - 120
Barium	49.5	52.0		mg/Kg		105	80 - 120
Lead	49.5	47.5		mg/Kg		96	80 - 120
Selenium	49.5	42.0		mg/Kg		85	80 - 120

Lab Sample ID: 440-137658-B-1-B MS ^5
Matrix: Solid
Analysis Batch: 312276

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		24.5	25.4		mg/Kg		104	75 - 125

Lab Sample ID: 440-137658-B-1-B MS ^5
Matrix: Solid
Analysis Batch: 312671

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.9		49.0	51.6		mg/Kg		93	75 - 125
Chromium	20		49.0	74.9		mg/Kg		112	75 - 125
Iron	20000		49.0	23900	4	mg/Kg		7406	75 - 125
Magnesium	12000		245	13700	4	mg/Kg		806	75 - 125
Manganese	360		49.0	440	4	mg/Kg		161	75 - 125
Titanium	110	F1	49.0	366	F1	mg/Kg		520	75 - 125
Cadmium	0.38	J	49.0	46.0		mg/Kg		93	75 - 125
Barium	190		49.0	240		mg/Kg		107	75 - 125
Lead	16		49.0	60.7		mg/Kg		92	75 - 125
Selenium	ND		49.0	42.5		mg/Kg		87	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-137658-B-1-C MSD ^5
Matrix: Solid
Analysis Batch: 312276

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		24.5	26.2		mg/Kg		107	75 - 125	3	20

Lab Sample ID: 440-137658-B-1-C MSD ^5
Matrix: Solid
Analysis Batch: 312671

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.9		49.0	51.0		mg/Kg		92	75 - 125	1	20
Chromium	20		49.0	74.5		mg/Kg		111	75 - 125	1	20
Iron	20000		49.0	23400	4	mg/Kg		6348	75 - 125	2	20
Magnesium	12000		245	13800	4	mg/Kg		838	75 - 125	1	20
Manganese	360		49.0	417	4	mg/Kg		116	75 - 125	5	20
Titanium	110	F1	49.0	332	F1	mg/Kg		450	75 - 125	10	20
Cadmium	0.38	J	49.0	42.6		mg/Kg		86	75 - 125	8	20
Barium	190		49.0	225		mg/Kg		76	75 - 125	6	20
Lead	16		49.0	59.5		mg/Kg		90	75 - 125	2	20
Selenium	ND		49.0	41.2		mg/Kg		84	75 - 125	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-237408/1-A
Matrix: Solid
Analysis Batch: 238353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		0.090	0.017	mg/Kg		02/22/16 11:27	02/27/16 00:11	2

Lab Sample ID: LCS 160-237408/2-A
Matrix: Solid
Analysis Batch: 238353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	0.961	0.942		mg/Kg		98	80 - 120

Lab Sample ID: 440-138115-5 MS
Matrix: Solid
Analysis Batch: 238353

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 237408

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	ND		0.950	0.893		mg/Kg	☼	94	75 - 125

Lab Sample ID: 440-138115-5 MSD
Matrix: Solid
Analysis Batch: 238353

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 237408

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Platinum	ND		0.997	0.923		mg/Kg	☼	93	75 - 125	3	30

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-313991/1-A
Matrix: Solid
Analysis Batch: 314328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		02/26/16 22:01	02/29/16 13:48	1

Lab Sample ID: LCS 440-313991/2-A
Matrix: Solid
Analysis Batch: 314328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.840		mg/Kg		105	80 - 120

Lab Sample ID: 440-138115-5 MS
Matrix: Solid
Analysis Batch: 314328

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 313991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.11		0.838	0.887		mg/Kg	☼	92	70 - 130

Lab Sample ID: 440-138115-5 MSD
Matrix: Solid
Analysis Batch: 314328

Client Sample ID: NERT-SO-COMPOSITE
Prep Type: Total/NA
Prep Batch: 313991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11		0.838	0.868		mg/Kg	☼	90	70 - 130	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 440-312216/1-A
Matrix: Solid
Analysis Batch: 312505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.99	0.40	mg/Kg		02/18/16 17:08	02/20/16 01:35	1

Lab Sample ID: LCS 440-312216/2-A
Matrix: Solid
Analysis Batch: 312505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	40.0	34.2		mg/Kg		85	80 - 120

Lab Sample ID: 440-138425-A-1-C MS
Matrix: Solid
Analysis Batch: 312505

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 312216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		40.0	37.1		mg/Kg		93	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 440-138425-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 312505 — **Prep Batch: 312216**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		40.2	37.0		mg/Kg		92	75 - 125	0	20

Lab Sample ID: 440-138425-A-1-E MSI — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 312505 — **Prep Batch: 312216**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	ND		941	656		mg/Kg		70	55 - 110

Method: 9014 - Cyanide

Lab Sample ID: MB 440-311288/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 311686 — **Prep Batch: 311288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		02/14/16 23:51	02/16/16 16:29	1

Lab Sample ID: LCS 440-311288/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 311686 — **Prep Batch: 311288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.99	4.96		mg/Kg		99	90 - 110

Lab Sample ID: 440-137874-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 311686 — **Prep Batch: 311288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.9	F2 F1	12.3	15.2		mg/Kg	☼	83	70 - 115

Lab Sample ID: 440-137874-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 311686 — **Prep Batch: 311288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	4.9	F2 F1	12.3	8.95	F1 F2	mg/Kg	☼	33	70 - 115	52	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 440-311406/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 311425 — **Prep Batch: 311406**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		40	20	mg/Kg		02/15/16 15:25	02/15/16 17:30	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 440-311406/2-A
Matrix: Solid
Analysis Batch: 311425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			96.0	96.0		mg/Kg		100	80 - 120		

Lab Sample ID: 550-58354-E-1-B MS
Matrix: Solid
Analysis Batch: 311425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	1400	F1	1580	3690	F1	mg/Kg	☼	143	70 - 130		

Lab Sample ID: 550-58354-E-1-C MSD
Matrix: Solid
Analysis Batch: 311425

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	1400	F1	1580	3960	F1	mg/Kg	☼	159	70 - 130	7	30

Method: 9045C - pH

Lab Sample ID: 440-137165-A-13-D DU
Matrix: Solid
Analysis Batch: 311646

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.87			8.000		SU				2	2

GC/MS VOA

Analysis Batch: 311752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137992-A-2 MS	Matrix Spike	Total/NA	Solid	8260B	
440-137992-A-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8260B	
LCS 440-311752/12	Lab Control Sample	Total/NA	Solid	8260B	
LCS 440-311752/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-311752/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 311453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
LCS 440-311453/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-311453/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 311693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
LCS 440-311693/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-311693/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 311963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-311453/2-A	Lab Control Sample	Total/NA	Solid	8270C	311453
MB 440-311453/1-A	Method Blank	Total/NA	Solid	8270C	311453

Analysis Batch: 312174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8270C	311453

Analysis Batch: 312709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8270C SIM	311693
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	8270C SIM	311693
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	8270C SIM	311693
LCS 440-311693/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	311693
MB 440-311693/1-A	Method Blank	Total/NA	Solid	8270C SIM	311693

GC VOA

Analysis Batch: 312557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-136732-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-136732-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8015B	
LCS 440-312557/27	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-312557/28	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 440-312557/29	Method Blank	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 311435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137630-A-1-G MS	Matrix Spike	Total/NA	Solid	3546	
440-137630-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
440-138168-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-138168-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-311435/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-311435/5-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-311435/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 311677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137630-A-1-G MS	Matrix Spike	Total/NA	Solid	8082	311435
440-137630-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	311435
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8082	311435
LCS 440-311435/5-A	Lab Control Sample	Total/NA	Solid	8082	311435
MB 440-311435/1-A	Method Blank	Total/NA	Solid	8082	311435

Analysis Batch: 311854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8081A	311435
440-138168-A-1-A MS	Matrix Spike	Total/NA	Solid	8081A	311435
440-138168-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	311435
LCS 440-311435/2-A	Lab Control Sample	Total/NA	Solid	8081A	311435
MB 440-311435/1-A	Method Blank	Total/NA	Solid	8081A	311435

Prep Batch: 312572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3546	
440-138628-H-2-B MS	Matrix Spike	Total/NA	Solid	3546	
440-138628-H-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-312572/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-312572/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 312722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8015B	312572
440-138628-H-2-B MS	Matrix Spike	Total/NA	Solid	8015B	312572
440-138628-H-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	312572
LCS 440-312572/2-A	Lab Control Sample	Total/NA	Solid	8015B	312572
MB 440-312572/1-A	Method Blank	Total/NA	Solid	8015B	312572

HPLC/IC

Leach Batch: 312481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-135828-C-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
440-135828-C-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
440-137330-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
440-137330-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Leach Batch: 312481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-312481/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-312481/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 312491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-135828-C-1-G MS	Matrix Spike	Soluble	Solid	9056	312481
440-135828-C-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	9056	312481
440-137330-A-1-I MS	Matrix Spike	Soluble	Solid	9056	312481
440-137330-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	9056	312481
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	9056	312481
LCS 440-312481/2-A	Lab Control Sample	Soluble	Solid	9056	312481
MB 440-312481/1-A	Method Blank	Soluble	Solid	9056	312481

Analysis Batch: 312492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-135828-C-1-G MS	Matrix Spike	Soluble	Solid	9056	312481
440-135828-C-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	9056	312481
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	9056	312481
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	9056	312481
LCS 440-312481/2-A	Lab Control Sample	Soluble	Solid	9056	312481
MB 440-312481/1-A	Method Blank	Soluble	Solid	9056	312481

Analysis Batch: 312928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	314.0	312969
LCS 440-312969/2-A	Lab Control Sample	Soluble	Solid	314.0	312969
LCSD 440-312969/3-A	Lab Control Sample Dup	Soluble	Solid	314.0	312969
MB 440-312969/1-A	Method Blank	Soluble	Solid	314.0	312969
MRL 440-312928/5	Lab Control Sample	Total/NA	Solid	314.0	

Leach Batch: 312969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	DI Leach	
LCS 440-312969/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 440-312969/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
MB 440-312969/1-A	Method Blank	Soluble	Solid	DI Leach	

Specialty Organics

Prep Batch: 100688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8290	
440-138115-5 - RA	NERT-SO-COMPOSITE	Total/NA	Solid	8290	
LCS 320-100688/2-A	Lab Control Sample	Total/NA	Solid	8290	
MB 320-100688/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 101771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-100688/2-A	Lab Control Sample	Total/NA	Solid	8290	100688
MB 320-100688/1-A	Method Blank	Total/NA	Solid	8290	100688

Specialty Organics (Continued)

Analysis Batch: 101776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	8290	100688

Analysis Batch: 101795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5 - RA	NERT-SO-COMPOSITE	Total/NA	Solid	8290	100688

Metals

Prep Batch: 237408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3050B	
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	3050B	
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	3050B	
LCS 160-237408/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-237408/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 238353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	6020A	237408
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	6020A	237408
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	6020A	237408
LCS 160-237408/2-A	Lab Control Sample	Total/NA	Solid	6020A	237408
MB 160-237408/1-A	Method Blank	Total/NA	Solid	6020A	237408

Prep Batch: 311557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137658-B-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-137658-B-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3050B	
LCS 440-311557/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-311557/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 312276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137658-B-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	311557
440-137658-B-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	311557
LCS 440-311557/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	311557
MB 440-311557/1-A ^5	Method Blank	Total/NA	Solid	6010B	311557

Analysis Batch: 312671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137658-B-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	311557
440-137658-B-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	311557
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	6010B	311557
LCS 440-311557/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	311557
MB 440-311557/1-A ^5	Method Blank	Total/NA	Solid	6010B	311557

Prep Batch: 313991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 313991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	
LCS 440-313991/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-313991/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 314328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	313991
440-138115-5 MS	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	313991
440-138115-5 MSD	NERT-SO-COMPOSITE	Total/NA	Solid	7471A	313991
LCS 440-313991/2-A	Lab Control Sample	Total/NA	Solid	7471A	313991
MB 440-313991/1-A	Method Blank	Total/NA	Solid	7471A	313991

General Chemistry

Prep Batch: 311288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137874-A-1-B MS	Matrix Spike	Total/NA	Solid	9010B	
440-137874-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	9010B	
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	9010B	
LCS 440-311288/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 440-311288/1-A	Method Blank	Total/NA	Solid	9010B	

Prep Batch: 311406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	9030B	
550-58354-E-1-B MS	Matrix Spike	Total/NA	Solid	9030B	
550-58354-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	9030B	
LCS 440-311406/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 440-311406/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 311425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	9034	311406
550-58354-E-1-B MS	Matrix Spike	Total/NA	Solid	9034	311406
550-58354-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	9034	311406
LCS 440-311406/2-A	Lab Control Sample	Total/NA	Solid	9034	311406
MB 440-311406/1-A	Method Blank	Total/NA	Solid	9034	311406

Leach Batch: 311623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137165-A-13-D DU	Duplicate	Soluble	Solid	DI Leach	
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	DI Leach	

Analysis Batch: 311646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137165-A-13-D DU	Duplicate	Soluble	Solid	9045C	311623
440-138115-5	NERT-SO-COMPOSITE	Soluble	Solid	9045C	311623

General Chemistry (Continued)

Analysis Batch: 311686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-137874-A-1-B MS	Matrix Spike	Total/NA	Solid	9014	311288
440-137874-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	9014	311288
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	9014	311288
LCS 440-311288/2-A	Lab Control Sample	Total/NA	Solid	9014	311288
MB 440-311288/1-A	Method Blank	Total/NA	Solid	9014	311288

Prep Batch: 312216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	3060A	
440-138425-A-1-C MS	Matrix Spike	Total/NA	Solid	3060A	
440-138425-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3060A	
440-138425-A-1-E MSI	Matrix Spike	Total/NA	Solid	3060A	
LCS 440-312216/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 440-312216/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 312505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	7196A	312216
440-138425-A-1-C MS	Matrix Spike	Total/NA	Solid	7196A	312216
440-138425-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7196A	312216
440-138425-A-1-E MSI	Matrix Spike	Total/NA	Solid	7196A	312216
LCS 440-312216/2-A	Lab Control Sample	Total/NA	Solid	7196A	312216
MB 440-312216/1-A	Method Blank	Total/NA	Solid	7196A	312216

Analysis Batch: 312643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	7.1.2	

Analysis Batch: 312895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138115-5	NERT-SO-COMPOSITE	Total/NA	Solid	Moisture	
440-138609-A-16 DU	Duplicate	Total/NA	Solid	Moisture	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312007A	07-31-16
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-16 *
Oregon	NELAP	10	4005	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	900	09-03-16

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-17
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-17
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-Q	01-29-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	ELAP	9	2886	03-31-16 *
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-10-16 *
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-16 *
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

EMLab P&K
A TestAmerica Company

Report for:

Patty Mata
TestAmerica-Irvine
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 440-138115-1; NERT Stormwater Outfall
EML ID: 1503355

Approved by:

Approved Signatory
Noah Lazarte

Dates of Analysis:
Asbestos PLM: 03-04-2016

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Irvine
C/O: Patty Mata
Re: 440-138115-1; NERT Stormwater Outfall

Date of Sampling: 02-09-2016
Date of Receipt: 03-03-2016
Date of Report: 03-04-2016

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	1
Total Samples Analyzed:	1
Total Samples with Layer Asbestos Content > 1%:	0

Location: 440-138115-5, NERT-SO-01,2,3,4 (COMPOSITE) Lab ID-Version‡: 6951413-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Due to the nature of a soil/rock sample, making proper slide mounts was not possible. It is recommended that the sample be analyzed using the CARB 435 method.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Mueller, Teresa

From: keverett@losonow.com
Sent: Friday, February 19, 2016 4:10 PM
To: Mueller, Teresa
Cc: Mata, Patty
Subject: RE: TestAmerica Sample Login Confirmation files from 440-138115 NERT Stormwater Outfall
Follow Up Flag: Follow up
Flag Status: Green

Ms. Mueller,

Can you please add a full-range analyses for TPH by EPA 8015 to include gasoline, diesel and oil range organics. Please let me know ASAP as this sample has become a very high priority.

Thanks,
Kris Everett
702-340-2594

From: Mueller, Teresa [mailto:teresa.mueller@testamericainc.com]
Sent: Thursday, February 18, 2016 9:11 AM
To: keverett@losonow.com
Subject: TestAmerica Sample Login Confirmation files from 440-138115 NERT Stormwater Outfall

Hello,

Attached, please find the Sample Confirmation files for job 440-138115; NERT Stormwater Outfall.

Receipt Discrepancies: None.

Please feel free to contact me or your PM, Patty Mata, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

TERESA D MUELLER
Project Management Assistant I

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261.1022

Reference: [258113]
Attachments: 2

TestAmerica Phoenix
4625 E. Cotton Center Blvd.
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax

Chain of Custody Record
Sample Origin: State of Nevada

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: K. Everett	Site Contact: K. Everett	Date: 02/09/16	COC No:
Logistical Solutions, LLC	Tel/Fax: 702-340-2594	Lab Contact:	Carrier:	1 of 1 COCs
4780 W. Ann Rd. #S-237	**Analysis Turnaround Time**			[1] Sampler
City/State/Zip N. Las Vegas, NV 89031	☐ CALENDAR DAYS ☐ WORKING DAYS			[1] Refer to note below.
Phone 702-596-2021	TAT if different from Below _____			**For Lab Use Only:**
FAX 702-974-1776	☐ 2 weeks			Walk-in Client:
Project Name: NERT: Stormwater Outfall	☑ 1 week			Lab Sampling:
Site: NERT Site	☐ 2 days			Job / SDG No.:
P O # MIC161008	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:
NERT-SO-01	02/09	1100	G	S	1			Composite
NERT-SO-02	02/09	1105	G	S	1			
NERT-SO-03	02/09	1110	G	S	1			
NERT-SO-04	02/09	1115	G	S	1			

See attachment for list of analytes

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: _____ Date 2/12/16

Preservation Used: 1= Ice. 2= HCl: 3= H2SO4: 4=HNO3: 5=NaOH: 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Composite the four samples at the lab and analyze only that one (1) composited Sample.

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.0 Corr'd: 1.8 | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kris Everett	Logistical Solutions	02/09/16 0830		DAS NDOC	TA 2/12/16 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA	2/12/16 1600			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	02/13/16 1030

- 0589 2840 4212

Form No. TAL-0042NV (0813)

9.6 TALV

Table 4 Analytical Parameters for Soil Sampling for Full Suite of COPCs
Analytical Parameters
Asbestos by EPA Method 600/R-93-116
Cyanide by EPA Method 9012
Dioxins/Furans by EPA Method 8290
Hexavalent chromium by EPA Method 7196A or 7199
Inorganic anions (bromide, chloride, fluoride, nitrate as nitrate, sulfate, nitrite as N, nitrate as N, and orthophosphate as phosphate) by EPA Method 9056
Mercury by EPA Method 7471
Metals (incl. manganese dioxide and iron oxide) by EPA Methods 6010 or 6020
OCPs by EPA Method 8081A
PAHs by EPA Method 8310 or 8270D
PCBs by EPA Method 8082
Perchlorate by EPA Method 314.0 or 6850
pH by EPA Method 9045D
Sulfide by EPA Method 9034
SVOCs (incl. HCB and B(a)P) by EPA Method 8270D
VOCs by EPA Method 8260B

Also include:
Ignitability

Arsenic, chromium, platinum, ~~manganese~~
Magnesium, manganese and titanium.

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-94657 1
Client Contact: Shipping/Receiving	Phone	E-Mail: patty.mata@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		**Analysis Requested**		Job #: 440-138115-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 2/24/2016			**Preservation Codes:**
City: West Sacramento	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			Other:
Email:	WO #			
Project Name: NERT Site Composite Soil	Project #: 44013970			
Site:	SSOW#			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290/8290_P_Sox Dioxins/Furans-17 Isomers List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
NERT-SO-01,2,3,4 (COMPOSITE) (440-138115-5)	2/9/16	00:01 Pacific		Solid			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	VnBaud	2/16/16 17:00	TAI	Fedex	2/16/16 17:00	
2				Cesar Cortes	2/17/16 10:20	TAIS
3						

Custody Seals Intact	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.5 TR# 6847 3673 3221

3/11/2016

Login Sample Receipt Checklist

Client: Logistical Solutions

Job Number: 440-138115-1

Login Number: 138115
List Number: 1
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Compositing required per COC.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Logistical Solutions

Job Number: 440-138115-1

Login Number: 138115
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 02/17/16 02:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Logistical Solutions

Job Number: 440-138115-1

Login Number: 138115
List Number: 3
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 02/18/16 11:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Logistical Solutions
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-138115-1

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
440-138115-5	NERT-SO-COMPOSITE	81		79	80	86	79	97	95
440-138115-5 - RA	NERT-SO-COMPOSITE		92						
LCS 320-100688/2-A	Lab Control Sample	79	78	82	80	85	79	89	85
MB 320-100688/1-A	Method Blank	68	67	68	67	68	66	74	71

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
440-138115-5	NERT-SO-COMPOSITE	105
440-138115-5 - RA	NERT-SO-COMPOSITE	
LCS 320-100688/2-A	Lab Control Sample	95
MB 320-100688/1-A	Method Blank	78

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-139746-1
Client Project/Site: NERT Stormwater Outfall

For:
Logistical Solutions, LLC
4780 W. Ann Rd
#5-237
North Las Vegas, Nevada 89031

Attn: Mr. Kris Everett

Authorized for release by:
3/18/2016 2:35:14 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

Table of Contents

Sample Summary

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-139746-1	NERT-CS-01	Solid	02/26/16 10:30	03/02/16 09:40

Job ID: 440-139746-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-139746-1

Comments
Results are presented in dry weight format as designated by the symbol in the "D" column in report.

Receipt
The sample was received on 3/2/2016 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

Receipt Exceptions
The following samples were activated for 8015 GRO and DRO analysis by the client on 3/3/16: NERT-CS-01 (440-139746-1). This analysis was not originally requested on the chain-of-custody (COC).

Per client request, the metals analyte list was expanded to include all 8 RCRA Metals for sample NERT-CS-01 (440-139746-1).

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The percent recovery for hexachlorocyclopentadiene was below the lower acceptance limit in the continuing calibration verification (CCV) associated with batch 315178. This compound is not classified as a Calibration Check Compound (CCC) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. A standard was run at the reporting limit for this compound to demonstrate sufficient instrument sensitivity. This compound is reportable from this batch as it was not detected in the following affected sample: NERT-CS-01 (440-139746-1).

Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: NERT-CS-01 (440-139746-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The batch QC source sample was diluted due to the abundance of target analytes in preparation batch 440-314911. As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 314.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 440-315407 and analytical batch 440-315977 were outside control limits. Sample matrix interference is suspected. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 9056: The continuing calibration blank (CCB) for analytical batch 440-317915 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 9056: Due to the relatively high concentration of chloride in the batch QC source sample, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-317946 and analytical batch 440-317915 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Job ID: 440-139746-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 8081A and 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and/or precision values for selected analytes in preparation batch 440-314909 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

Method(s) 8081A: Surrogate recovery for the following samples was outside control limits: NERT-CS-01 (440-139746-1), (440-139746-K-1-B MS) and (440-139746-K-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: NERT-CS-01 (440-139746-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Internal standard was outside acceptance limits due to sample matrix effects for batch QC sample (440-138712-A-1-E MSD).

Method(s) 8082: The following samples contained more than one Aroclor with insufficient separation to quantify individually for Aroclors 1254 and 1260. Aroclor 1254 is quantified as the predominant Aroclor for sample NERT-CS-01 (440-139746-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin

Method(s) 8290: The following sample exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): NERT-CS-01 (440-139746-1) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method(s) 8290: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: NERT-CS-01 (440-139746-1). These analytes have been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method(s) 8290: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): NERT-CS-01 (440-139746-1) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: preparation batch 160-239360 and analytical batch 160-239840
The following samples were diluted for Platinum due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: NERT-CS-01 (440-139746-1), (440-139746-B-1-B MS), (440-139746-B-1-C MSD) and (440-139746-B-1 SD). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for selected metals in preparation batch 440-315044 and analytical batch 440-315245 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample recoveries were within acceptance limits.

Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: NERT-CS-01 (440-139746-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 315202 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9014: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-315922 and analytical batch

Job ID: 440-139746-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

440-316174 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: The following sample had smaller initial amount used for preparation due to the nature of the sample matrix: NERT-CS-01 (440-139746-1), (440-139746-K-1 MS) and (440-139746-K-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos by EPA 600/R-93-116: This method was subcontracted to EMLab P&K - Denver. The subcontract laboratory certification is different from that of the facility issuing the final report. Please see the subcontract data section of this report for results.

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Bromobenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
Bromochloromethane	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
Bromodichloromethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Bromoform	ND		5.6	2.2	ug/Kg	☼		03/03/16 14:02	1
Bromomethane	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
2-Butanone (MEK)	ND		11	5.6	ug/Kg	☼		03/03/16 14:02	1
Carbon tetrachloride	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
Chlorobenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Chloroethane	ND		5.6	2.2	ug/Kg	☼		03/03/16 14:02	1
Chloroform	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Chloromethane	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
2-Chlorotoluene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
4-Chlorotoluene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
cis-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
cis-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Dibromochloromethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2-Dibromo-3-Chloropropane	ND		5.6	2.2	ug/Kg	☼		03/03/16 14:02	1
1,2-Dibromoethane (EDB)	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Dibromomethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2-Dichlorobenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,3-Dichlorobenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,4-Dichlorobenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Dichlorodifluoromethane	ND		5.6	2.2	ug/Kg	☼		03/03/16 14:02	1
1,1-Dichloroethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2-Dichloroethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1-Dichloroethene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2-Dichloropropane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,3-Dichloropropane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1-Dichloropropene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Ethylbenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Hexachlorobutadiene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
Isopropylbenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Methylene Chloride	ND		22	5.6	ug/Kg	☼		03/03/16 14:02	1
m,p-Xylene	ND		4.5	2.2	ug/Kg	☼		03/03/16 14:02	1
Naphthalene	ND		5.6	2.2	ug/Kg	☼		03/03/16 14:02	1
n-Butylbenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
N-Propylbenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
o-Xylene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
p-Isopropyltoluene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
sec-Butylbenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
Styrene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
tert-Butylbenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1,1,2-Tetrachloroethane	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Tetrachloroethene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Toluene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
trans-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2,3-Trichlorobenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2,4-Trichlorobenzene	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1,1-Trichloroethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,1,2-Trichloroethane	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Trichloroethene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Trichlorofluoromethane	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg	☼		03/03/16 14:02	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
1,3,5-Trimethylbenzene	ND		2.2	1.1	ug/Kg	☼		03/03/16 14:02	1
Vinyl chloride	ND		5.6	1.1	ug/Kg	☼		03/03/16 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*03/03/16 14:02*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*03/03/16 14:02*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*		*03/03/16 14:02*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Acenaphthylene	ND		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Anthracene	ND		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Benzo[a]anthracene	**46**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Benzo[a]pyrene	**35**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Benzo[b]fluoranthene	**120**		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Benzo[g,h,i]perylene	**51**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Benzo[k]fluoranthene	**40**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Chrysene	**110**		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Dibenz(a,h)anthracene	**11**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Fluoranthene	**160**		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Fluorene	ND		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Indeno[1,2,3-cd]pyrene	**36**	**J**	70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Naphthalene	ND		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Phenanthrene	**86**		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1
Pyrene	**96**		70	9.3	ug/Kg	☼	03/02/16 15:51	03/05/16 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 111*	*03/02/16 15:51*	*03/05/16 23:32*	*1*
Nitrobenzene-d5	*67*		*41 - 119*	*03/02/16 15:51*	*03/05/16 23:32*	*1*
Terphenyl-d14	*83*		*43 - 150*	*03/02/16 15:51*	*03/05/16 23:32*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**11000**	**J**	17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Acenaphthylene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Aniline	ND		21000	4300	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Anthracene	ND		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzidine	ND		69000	34000	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzo[a]anthracene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzo[a]pyrene	**80000**		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzo[g,h,i]perylene	**34000**		17000	5600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzoic acid	ND		42000	17000	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzo[k]fluoranthene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Benzyl alcohol	ND		17000	7700	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Bis(2-chloroethoxy)methane	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Bis(2-chloroethyl)ether	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
bis (2-chloroisopropyl) ether	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Bis(2-ethylhexyl) phthalate	ND		17000	4600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Bromophenyl phenyl ether	ND		17000	3800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Butyl benzyl phthalate	ND		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Chloroaniline	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Chloro-3-methylphenol	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Chloronaphthalene	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Chlorophenol	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Chlorophenyl phenyl ether	ND		17000	4300	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Chrysene	ND		17000	3800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Dibenz(a,h)anthracene	ND		21000	5100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Dibenzofuran	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
1,2-Dichlorobenzene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
1,3-Dichlorobenzene	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
1,4-Dichlorobenzene	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
3,3'-Dichlorobenzidine	ND		42000	7700	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4-Dichlorophenol	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Diethyl phthalate	ND		17000	4900	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4-Dimethylphenol	ND		17000	6600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Dimethyl phthalate	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Di-n-butyl phthalate	ND		17000	4600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4,6-Dinitro-2-methylphenol	ND		21000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4-Dinitrophenol	ND		34000	17000	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4-Dinitrotoluene	ND		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,6-Dinitrotoluene	ND		17000	4900	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Di-n-octyl phthalate	ND		17000	4600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
1,2-Diphenylhydrazine(as Azobenzene)	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Fluoranthene	**20000**		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Fluorene	**18000**		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Hexachlorobenzene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Hexachlorobutadiene	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Hexachlorocyclopentadiene	ND		42000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Hexachloroethane	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Indeno[1,2,3-cd]pyrene	ND		17000	6600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Isophorone	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Methylnaphthalene	**150000**		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Methylphenol	ND		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
3-Methylphenol + 4-Methylphenol	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Naphthalene	**45000**		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Nitroaniline	ND		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
3-Nitroaniline	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Nitroaniline	ND		42000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
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Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2-Nitrophenol	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
4-Nitrophenol	ND		42000	7200	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
N-Nitrosodimethylamine	ND		17000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
N-Nitrosodi-n-propylamine	ND		13000	3600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
N-Nitrosodiphenylamine	ND		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Pentachlorophenol	ND		42000	17000	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Phenanthrene	**150000**		17000	3400	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Phenol	ND		17000	4600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
Pyrene	**320000**		17000	4100	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
1,2,4-Trichlorobenzene	ND		17000	6800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4,5-Trichlorophenol	ND		17000	6600	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10
2,4,6-Trichlorophenol	ND		17000	3800	ug/Kg	☼	03/02/16 16:02	03/04/16 02:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*42 - 113*	*03/02/16 16:02*	*03/04/16 02:05*	*10*
2-Fluorophenol (Surr)	*62*		*18 - 138*	*03/02/16 16:02*	*03/04/16 02:05*	*10*
Nitrobenzene-d5 (Surr)	*72*		*39 - 104*	*03/02/16 16:02*	*03/04/16 02:05*	*10*
Phenol-d6 (Surr)	*55*		*37 - 125*	*03/02/16 16:02*	*03/04/16 02:05*	*10*
Terphenyl-d14 (Surr)	*104*		*43 - 125*	*03/02/16 16:02*	*03/04/16 02:05*	*10*
2,4,6-Tribromophenol (Surr)	*59*		*10 - 147*	*03/02/16 16:02*	*03/04/16 02:05*	*10*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		440	170	ug/Kg	☼		03/05/16 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*65 - 140*		*03/05/16 01:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	**12**		11	5.7	mg/Kg	☼	03/04/16 16:22	03/07/16 11:42	1
C23-C40	**45**		11	5.7	mg/Kg	☼	03/04/16 16:22	03/07/16 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*03/04/16 16:22*	*03/07/16 11:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F2	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
4,4'-DDE	**56**	**p**	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
4,4'-DDT	ND	F1	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Aldrin	ND	F2	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
alpha-BHC	ND	F2	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
beta-BHC	**40**		11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Chlordane (technical)	ND		110	23	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
delta-BHC	ND	F2	23	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Dieldrin	ND	F2	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Endosulfan I	ND	F2 F1	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Endosulfan II	ND	F2	11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Endosulfan sulfate	ND		23	4.5	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Endrin aldehyde	ND		11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Endrin ketone	ND		11	4.5	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
gamma-BHC (Lindane)	ND		11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Heptachlor	ND	F2	11	4.5	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Heptachlor epoxide	ND	F1	11	4.5	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Methoxychlor	ND		11	3.4	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1
Toxaphene	ND		450	110	ug/Kg	☼	03/02/16 15:59	03/03/16 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*35 - 115*	*03/02/16 15:59*	*03/03/16 13:36*	*1*
DCB Decachlorobiphenyl (Surr)	*178*	*X*	*45 - 120*	*03/02/16 15:59*	*03/03/16 13:36*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1221	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1232	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1242	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1248	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1254	**1100**		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1
Aroclor 1260	ND		110	38	ug/Kg	☼	03/02/16 15:59	03/03/16 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*162*	*X*	*45 - 120*	*03/02/16 15:59*	*03/03/16 17:25*	*1*

Method: 314.0 - Perchlorate (IC) - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**7.9**	**F2**	0.45	0.11	mg/Kg	☼		03/08/16 10:17	10

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.6	4.0	mg/Kg	☼		03/17/16 06:24	1
Nitrate as N	**73**		1.2	0.90	mg/Kg	☼		03/17/16 06:24	1
Chloride	**540**		110	90	mg/Kg	☼		03/17/16 06:38	20
Nitrite as N	ND		1.7	1.2	mg/Kg	☼		03/04/16 00:16	1
Fluoride	ND		5.6	3.9	mg/Kg	☼		03/04/16 00:16	1
Orthophosphate as PO4	**6.4**		5.6	4.5	mg/Kg	☼		03/04/16 00:16	1
Sulfate	**1300**		110	90	mg/Kg	☼		03/17/16 06:38	20
Nitrate as NO3	**320**		5.6	4.0	mg/Kg	☼		03/17/16 06:24	1

Method: NO3NO2 Calc - Nitrogen, Nitrate-Nitrite - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**73**		1.7	1.2	mg/Kg			03/18/16 12:03	1

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**9.4**		1.1	0.69	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,7,8-PeCDD	**26**		5.6	3.0	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,7,8-PeCDF	**450**	**G**	20	20	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
2,3,4,7,8-PeCDF	**220**	**G**	20	20	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	21		5.6	0.80	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,6,7,8-HxCDD	51		5.6	0.78	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,7,8,9-HxCDD	49		5.6	0.68	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,4,7,8-HxCDF	790	G	10	10	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,6,7,8-HxCDF	570	G	9.2	9.2	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
2,3,4,6,7,8-HxCDF	140	G	9.8	9.8	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,7,8,9-HxCDF	91	G	10	10	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,4,6,7,8-HpCDD	230	B	5.6	2.3	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,4,6,7,8-HpCDF	2100	G	17	17	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
1,2,3,4,7,8,9-HpCDF	900	G	22	22	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
OCDD	550	B	11	0.65	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1
OCDF	9400	E B	11	7.8	pg/g	☼	03/11/16 11:12	03/15/16 06:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*100*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*92*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*
13C-OCDD	*111*		*40 - 135*	*03/11/16 11:12*	*03/15/16 06:16*	*1*

Method: 8290 - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	240	G	2.5	2.5	pg/g	☼	03/11/16 11:12	03/14/16 16:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*96*		*40 - 135*	*03/11/16 11:12*	*03/14/16 16:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	190	F1	170	83	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Chromium	140	F1	55	28	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Magnesium	7900		550	280	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Manganese	60000	B F2	110	55	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Titanium	650		110	55	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Cadmium	ND		28	14	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Barium	4800	F2	83	41	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Silver	ND		83	41	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Lead	2100	F2	110	55	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Selenium	ND		170	83	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250
Iron	20000	B	550	280	mg/Kg	☼	03/03/16 08:51	03/03/16 17:11	250

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	0.24	J	0.51	0.096	mg/Kg	☼	03/07/16 10:04	03/08/16 17:59	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.9		0.23	0.14	mg/Kg	☼	03/15/16 17:30	03/16/16 17:26	10

Client Sample Results

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Client Sample ID: NERT-CS-01
Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1
Matrix: Solid
Percent Solids: 89.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ignitability	not ignitable		1.0	1.0	NONE			03/03/16 20:38	1
Cr (VI)	12		0.98	0.39	mg/Kg		03/07/16 14:23	03/08/16 18:39	1
Cyanide, Total	1.9		0.49	0.42	mg/Kg		03/07/16 19:00	03/08/16 22:51	1
Sulfide	ND	F1	45	23	mg/Kg	☼	03/03/16 13:14	03/03/16 15:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.100	0.100	SU			03/03/16 15:05	1

Method Summary

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
9056A	Anions, Ion Chromatography	SW846	TAL IRV
NO3NO2 Calc	Nitrogen, Nitrate-Nitrite	EPA	TAL IRV
8290	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL IRV
6020A	Metals (ICP/MS)	SW846	TAL SL
7471A	Mercury (CVAA)	SW846	TAL IRV
7.1.2	Ignitablity,Solids	SW846	TAL IRV
7196A	Chromium, Hexavalent	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL IRV
9045C	pH	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
Asbestos by EPA 600/R-93-116	General Sub Contract Method	NONE	

Protocol References:

EPA = US Environmental Protection Agency
NONE = NONE
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client Sample ID: NERT-CS-01

Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	NO3NO2 Calc		1			318540	03/18/16 12:03	TN	TAL IRV
Total/NA	Analysis	7.1.2		1			315265	03/03/16 20:38	KDP	TAL IRV
Total/NA	Prep	3060A			2.54 g	100 mL	315858	03/07/16 14:23	TMB	TAL IRV
Total/NA	Analysis	7196A		1	2.54 g	100 mL	316152	03/08/16 18:39	RW	TAL IRV
Total/NA	Prep	9010B			2.0397 g	50 mL	315922	03/07/16 19:00	ECK	TAL IRV
Total/NA	Analysis	9014		1	2.0397 g	50 mL	316174	03/08/16 22:51	SN	TAL IRV
Soluble	Leach	DI Leach			20.04 g	20 mL	315107	03/03/16 11:55	ST	TAL IRV
Soluble	Analysis	9045C		1		20 mL	315190	03/03/16 15:05	ST	TAL IRV
Total/NA	Analysis	Moisture		1			315263	03/03/16 20:25	MMH	TAL IRV

Client Sample ID: NERT-CS-01

Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1

Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	315030	03/03/16 14:02	AL	TAL IRV
Total/NA	Prep	3546			3.29 g	1 mL	314911	03/02/16 16:02	VA	TAL IRV
Total/NA	Analysis	8270C		10	3.29 g	1 mL	315178	03/04/16 02:05	DF	TAL IRV
Total/NA	Prep	3546			7.25 g	1 mL	314906	03/02/16 15:51	VA	TAL IRV
Total/NA	Analysis	8270C SIM		1	7.25 g	1 mL	315605	03/05/16 23:32	AI	TAL IRV
Total/NA	Analysis	8015B		1	5.07 g	10 mL	315494	03/05/16 01:08	JB	TAL IRV
Total/NA	Prep	3546			7.34 g	1 mL	315514	03/04/16 16:22	KDP	TAL IRV
Total/NA	Analysis	8015B		1	7.34 g	1 mL	315707	03/07/16 11:42	KW	TAL IRV
Total/NA	Prep	3546			7.47 g	2 mL	314909	03/02/16 15:59	VA	TAL IRV
Total/NA	Analysis	8081A		1	7.47 g	2 mL	315074	03/03/16 13:36	KS	TAL IRV
Total/NA	Prep	3546			7.47 g	2 mL	314909	03/02/16 15:59	VA	TAL IRV
Total/NA	Analysis	8082		1	7.47 g	2 mL	315081	03/03/16 17:25	JM	TAL IRV
Soluble	Leach	DI Leach			4.01 g	40 mL	315407	03/04/16 11:12	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		315977	03/08/16 10:17	CH	TAL IRV
Soluble	Leach	DI Leach			4.03 g	40 mL	315172	03/03/16 14:15	TMB	TAL IRV
Soluble	Analysis	9056A		1	5 mL	1.0 mL	315266	03/04/16 00:16	NN	TAL IRV
Soluble	Leach	DI Leach			4.03 g	40 mL	315172	03/03/16 14:15	TMB	TAL IRV
Soluble	Analysis	9056A		1	5 mL	1.0 mL	315267	03/04/16 00:16	NN	TAL IRV
Soluble	Leach	DI Leach			3.97 g	40 mL	317946	03/16/16 19:10	TMB	TAL IRV
Soluble	Analysis	9056A		1	5 mL		317914	03/17/16 06:24	NTN	TAL IRV
Soluble	Leach	DI Leach			3.97 g	40 mL	317946	03/16/16 19:10	TMB	TAL IRV
Soluble	Analysis	9056A		1	5 mL		317915	03/17/16 06:24	NTN	TAL IRV
Soluble	Leach	DI Leach			3.97 g	40 mL	317946	03/16/16 19:10	TMB	TAL IRV
Soluble	Analysis	9056A		20	5 mL		317915	03/17/16 06:38	NTN	TAL IRV
Total/NA	Prep	8290			10.02 g	20 uL	103075	03/11/16 11:12	BNB	TAL SAC
Total/NA	Analysis	8290		1	10.02 g	20 uL	103354	03/15/16 06:16	KSS	TAL SAC
Total/NA	Prep	8290	RA		10.02 g	20 uL	103075	03/11/16 11:12	BNB	TAL SAC
Total/NA	Analysis	8290	RA	1	10.02 g	20 uL	103315	03/14/16 16:02	ALM	TAL SAC

Lab Chronicle

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Client Sample ID: NERT-CS-01

Date Collected: 02/26/16 10:30
Date Received: 03/02/16 09:40

Lab Sample ID: 440-139746-1

Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	315044	03/03/16 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		250	2.03 g	50 mL	315245	03/03/16 17:11	TK	TAL IRV
Total/NA	Prep	3050B			0.5534 g	50 mL	239360	03/07/16 10:04	SFF	TAL SL
Total/NA	Analysis	6020A		10	0.5534 g	50 mL	239840	03/08/16 17:59	CB	TAL SL
Total/NA	Prep	7471A			0.49 g	50 mL	317684	03/15/16 17:30	B1H	TAL IRV
Total/NA	Analysis	7471A		10	0.49 g	50 mL	318199	03/16/16 17:26	EN	TAL IRV
Total/NA	Prep	9030B			4.98 g	50 mL	315146	03/03/16 13:14	MSM	TAL IRV
Total/NA	Analysis	9034		1	4.98 g	50 mL	315202	03/03/16 15:25	MSM	TAL IRV

Laboratory References:

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-315030/4
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Bromobenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Bromoform	ND		5.0	2.0	ug/Kg			03/03/16 10:01	1
Bromomethane	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			03/03/16 10:01	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Chloroethane	ND		5.0	2.0	ug/Kg			03/03/16 10:01	1
Chloroform	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Chloromethane	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			03/03/16 10:01	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Dibromomethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			03/03/16 10:01	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Methylene Chloride	ND		20	5.0	ug/Kg			03/03/16 10:01	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			03/03/16 10:01	1
Naphthalene	ND		5.0	2.0	ug/Kg			03/03/16 10:01	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
o-Xylene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
Styrene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Toluene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-315030/4
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Trichloroethene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			03/03/16 10:01	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			03/03/16 10:01	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			03/03/16 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*		*03/03/16 10:01*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 120*		*03/03/16 10:01*	*1*
Toluene-d8 (Surr)	*101*		*79 - 123*		*03/03/16 10:01*	*1*

Lab Sample ID: LCS 440-315030/5
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.1		ug/Kg		88	65 - 120
Bromobenzene	50.0	49.1		ug/Kg		98	75 - 120
Bromochloromethane	50.0	50.8		ug/Kg		102	70 - 135
Bromodichloromethane	50.0	48.7		ug/Kg		97	70 - 135
Bromoform	50.0	56.9		ug/Kg		114	55 - 135
Bromomethane	50.0	46.4		ug/Kg		93	60 - 145
2-Butanone (MEK)	62.5	57.0		ug/Kg		91	40 - 145
Carbon tetrachloride	50.0	49.3		ug/Kg		99	65 - 140
Chlorobenzene	50.0	45.2		ug/Kg		90	75 - 120
Chloroethane	50.0	46.3		ug/Kg		93	60 - 140
Chloroform	50.0	44.8		ug/Kg		90	70 - 130
Chloromethane	50.0	45.3		ug/Kg		91	45 - 145
2-Chlorotoluene	50.0	44.3		ug/Kg		89	70 - 125
4-Chlorotoluene	50.0	43.7		ug/Kg		87	75 - 125
cis-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 125
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	75 - 125
Dibromochloromethane	50.0	48.6		ug/Kg		97	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/Kg		92	50 - 135
1,2-Dibromoethane (EDB)	50.0	50.0		ug/Kg		100	70 - 130
Dibromomethane	50.0	47.8		ug/Kg		96	70 - 130
1,2-Dichlorobenzene	50.0	47.3		ug/Kg		95	75 - 120
1,3-Dichlorobenzene	50.0	46.0		ug/Kg		92	75 - 125
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	75 - 120
Dichlorodifluoromethane	50.0	42.3		ug/Kg		85	35 - 160
1,1-Dichloroethane	50.0	42.7		ug/Kg		85	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-315030/5
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	42.0		ug/Kg		84	60 - 140
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	70 - 125
1,2-Dichloropropane	50.0	47.7		ug/Kg		95	70 - 130
1,3-Dichloropropane	50.0	46.3		ug/Kg		93	70 - 125
2,2-Dichloropropane	50.0	45.6		ug/Kg		91	60 - 145
1,1-Dichloropropene	50.0	44.7		ug/Kg		89	70 - 130
Ethylbenzene	50.0	45.0		ug/Kg		90	70 - 125
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	60 - 135
Isopropylbenzene	50.0	45.4		ug/Kg		91	75 - 130
Methylene Chloride	50.0	47.4		ug/Kg		95	55 - 135
m,p-Xylene	50.0	47.3		ug/Kg		95	70 - 125
Naphthalene	50.0	49.2		ug/Kg		98	55 - 135
n-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 130
N-Propylbenzene	50.0	44.7		ug/Kg		89	70 - 130
o-Xylene	50.0	45.1		ug/Kg		90	70 - 125
p-Isopropyltoluene	50.0	46.0		ug/Kg		92	75 - 125
sec-Butylbenzene	50.0	45.1		ug/Kg		90	70 - 125
Styrene	50.0	48.3		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	45.1		ug/Kg		90	70 - 125
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	55 - 140
Tetrachloroethene	50.0	52.9		ug/Kg		106	70 - 125
Toluene	50.0	45.6		ug/Kg		91	70 - 125
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 125
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	70 - 135
1,2,3-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 130
1,2,4-Trichlorobenzene	50.0	52.9		ug/Kg		106	70 - 135
1,1,1-Trichloroethane	50.0	44.3		ug/Kg		89	65 - 135
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	65 - 135
Trichloroethene	50.0	48.8		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	45.6		ug/Kg		91	60 - 145
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	60 - 135
1,2,4-Trimethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
1,3,5-Trimethylbenzene	50.0	45.8		ug/Kg		92	70 - 125
Vinyl chloride	50.0	44.3		ug/Kg		89	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*
Dibromofluoromethane (Surr)	*96*		*60 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: 440-138712-A-13 MS
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.6	48.1		ug/Kg		97	65 - 130
Bromobenzene	ND		49.6	54.5		ug/Kg		110	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-138712-A-13 MS
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	ND		49.6	53.0		ug/Kg		107	65 - 145
Bromodichloromethane	ND		49.6	54.5		ug/Kg		110	65 - 145
Bromoform	ND		49.6	59.6		ug/Kg		120	50 - 145
Bromomethane	ND		49.6	50.7		ug/Kg		102	60 - 155
2-Butanone (MEK)	ND		62.0	63.2		ug/Kg		102	25 - 170
Carbon tetrachloride	ND		49.6	55.7		ug/Kg		112	60 - 145
Chlorobenzene	ND		49.6	48.5		ug/Kg		98	70 - 130
Chloroethane	ND		49.6	49.9		ug/Kg		101	60 - 150
Chloroform	ND		49.6	49.4		ug/Kg		100	65 - 135
Chloromethane	ND		49.6	50.6		ug/Kg		102	40 - 145
2-Chlorotoluene	ND		49.6	49.0		ug/Kg		99	60 - 135
4-Chlorotoluene	ND		49.6	48.1		ug/Kg		97	65 - 135
cis-1,2-Dichloroethene	ND		49.6	52.5		ug/Kg		106	65 - 135
cis-1,3-Dichloropropene	ND		49.6	52.7		ug/Kg		106	70 - 135
Dibromochloromethane	ND		49.6	51.1		ug/Kg		103	60 - 145
1,2-Dibromo-3-Chloropropane	ND		49.6	47.0		ug/Kg		95	40 - 150
1,2-Dibromoethane (EDB)	ND		49.6	53.4		ug/Kg		108	65 - 140
Dibromomethane	ND		49.6	53.2		ug/Kg		107	65 - 140
1,2-Dichlorobenzene	ND		49.6	51.0		ug/Kg		103	70 - 130
1,3-Dichlorobenzene	ND		49.6	50.4		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	ND		49.6	50.6		ug/Kg		102	70 - 130
Dichlorodifluoromethane	ND		49.6	52.3		ug/Kg		106	30 - 160
1,1-Dichloroethane	ND		49.6	47.2		ug/Kg		95	65 - 135
1,2-Dichloroethane	ND		49.6	46.0		ug/Kg		93	60 - 150
1,1-Dichloroethene	ND		49.6	53.0		ug/Kg		107	65 - 135
1,2-Dichloropropane	ND		49.6	52.0		ug/Kg		105	65 - 130
1,3-Dichloropropane	ND		49.6	49.2		ug/Kg		99	65 - 140
2,2-Dichloropropane	ND		49.6	51.3		ug/Kg		103	65 - 150
1,1-Dichloropropene	ND		49.6	51.2		ug/Kg		103	65 - 135
Ethylbenzene	ND		49.6	48.5		ug/Kg		98	70 - 135
Hexachlorobutadiene	ND		49.6	57.8		ug/Kg		117	50 - 145
Isopropylbenzene	ND		49.6	48.5		ug/Kg		98	70 - 145
Methylene Chloride	ND		49.6	52.4		ug/Kg		106	55 - 145
m,p-Xylene	ND		49.6	50.8		ug/Kg		102	70 - 130
Naphthalene	ND		49.6	52.0		ug/Kg		105	40 - 150
n-Butylbenzene	ND		49.6	50.9		ug/Kg		103	55 - 145
N-Propylbenzene	ND		49.6	49.9		ug/Kg		101	65 - 140
o-Xylene	ND		49.6	47.9		ug/Kg		97	65 - 130
p-Isopropyltoluene	ND		49.6	50.7		ug/Kg		102	60 - 140
sec-Butylbenzene	ND		49.6	50.2		ug/Kg		101	60 - 135
Styrene	ND		49.6	51.5		ug/Kg		104	70 - 140
tert-Butylbenzene	ND		49.6	49.7		ug/Kg		100	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.6	54.6		ug/Kg		110	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.6	51.1		ug/Kg		103	40 - 160
Tetrachloroethene	ND		49.6	57.7		ug/Kg		116	65 - 135
Toluene	ND		49.6	48.6		ug/Kg		98	70 - 130
trans-1,2-Dichloroethene	ND		49.6	54.8		ug/Kg		110	70 - 135
trans-1,3-Dichloropropene	ND		49.6	52.6		ug/Kg		106	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-138712-A-13 MS
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	ND		49.6	55.6		ug/Kg		112	45 - 145
1,2,4-Trichlorobenzene	ND		49.6	57.8		ug/Kg		116	50 - 140
1,1,1-Trichloroethane	ND		49.6	50.2		ug/Kg		101	65 - 145
1,1,2-Trichloroethane	ND		49.6	49.9		ug/Kg		101	65 - 140
Trichloroethene	ND		49.6	56.6		ug/Kg		114	65 - 140
Trichlorofluoromethane	ND		49.6	52.2		ug/Kg		105	55 - 155
1,2,3-Trichloropropane	ND		49.6	51.4		ug/Kg		104	50 - 150
1,2,4-Trimethylbenzene	ND		49.6	50.6		ug/Kg		102	65 - 140
1,3,5-Trimethylbenzene	ND		49.6	50.5		ug/Kg		102	65 - 135
Vinyl chloride	ND		49.6	49.9		ug/Kg		101	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Dibromofluoromethane (Surr)	*97*		*60 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 440-138712-A-13 MSD
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	49.1		ug/Kg		98	65 - 130	2	20
Bromobenzene	ND		50.0	55.9		ug/Kg		112	65 - 140	3	25
Bromochloromethane	ND		50.0	55.0		ug/Kg		110	65 - 145	4	25
Bromodichloromethane	ND		50.0	53.6		ug/Kg		107	65 - 145	2	20
Bromoform	ND		50.0	63.1		ug/Kg		126	50 - 145	6	30
Bromomethane	ND		50.0	51.6		ug/Kg		103	60 - 155	2	25
2-Butanone (MEK)	ND		62.5	67.4		ug/Kg		108	25 - 170	6	40
Carbon tetrachloride	ND		50.0	57.0		ug/Kg		114	60 - 145	2	25
Chlorobenzene	ND		50.0	49.5		ug/Kg		99	70 - 130	2	25
Chloroethane	ND		50.0	51.2		ug/Kg		102	60 - 150	3	25
Chloroform	ND		50.0	49.4		ug/Kg		99	65 - 135	0	20
Chloromethane	ND		50.0	53.2		ug/Kg		106	40 - 145	5	25
2-Chlorotoluene	ND		50.0	50.0		ug/Kg		100	60 - 135	2	25
4-Chlorotoluene	ND		50.0	49.4		ug/Kg		99	65 - 135	3	25
cis-1,2-Dichloroethene	ND		50.0	53.3		ug/Kg		107	65 - 135	2	25
cis-1,3-Dichloropropene	ND		50.0	54.5		ug/Kg		109	70 - 135	4	25
Dibromochloromethane	ND		50.0	53.6		ug/Kg		107	60 - 145	5	25
1,2-Dibromo-3-Chloropropane	ND		50.0	50.2		ug/Kg		100	40 - 150	7	30
1,2-Dibromoethane (EDB)	ND		50.0	56.5		ug/Kg		113	65 - 140	6	25
Dibromomethane	ND		50.0	54.0		ug/Kg		108	65 - 140	2	25
1,2-Dichlorobenzene	ND		50.0	51.2		ug/Kg		102	70 - 130	0	25
1,3-Dichlorobenzene	ND		50.0	50.9		ug/Kg		102	70 - 130	1	25
1,4-Dichlorobenzene	ND		50.0	50.9		ug/Kg		102	70 - 130	1	25
Dichlorodifluoromethane	ND		50.0	53.0		ug/Kg		106	30 - 160	1	35
1,1-Dichloroethane	ND		50.0	48.2		ug/Kg		96	65 - 135	2	25
1,2-Dichloroethane	ND		50.0	46.4		ug/Kg		93	60 - 150	1	25
1,1-Dichloroethene	ND		50.0	54.6		ug/Kg		109	65 - 135	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-138712-A-13 MSD
Matrix: Solid
Analysis Batch: 315030

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		50.0	52.7		ug/Kg		105	65 - 130	1	20
1,3-Dichloropropane	ND		50.0	51.0		ug/Kg		102	65 - 140	4	25
2,2-Dichloropropane	ND		50.0	52.3		ug/Kg		105	65 - 150	2	25
1,1-Dichloropropene	ND		50.0	51.4		ug/Kg		103	65 - 135	0	20
Ethylbenzene	ND		50.0	49.9		ug/Kg		100	70 - 135	3	25
Hexachlorobutadiene	ND		50.0	57.0		ug/Kg		114	50 - 145	1	35
Isopropylbenzene	ND		50.0	50.5		ug/Kg		101	70 - 145	4	25
Methylene Chloride	ND		50.0	53.9		ug/Kg		108	55 - 145	3	25
m,p-Xylene	ND		50.0	51.7		ug/Kg		103	70 - 130	2	25
Naphthalene	ND		50.0	54.8		ug/Kg		110	40 - 150	5	40
n-Butylbenzene	ND		50.0	51.3		ug/Kg		103	55 - 145	1	30
N-Propylbenzene	ND		50.0	50.7		ug/Kg		101	65 - 140	2	25
o-Xylene	ND		50.0	50.0		ug/Kg		100	65 - 130	4	25
p-Isopropyltoluene	ND		50.0	51.9		ug/Kg		104	60 - 140	2	25
sec-Butylbenzene	ND		50.0	50.9		ug/Kg		102	60 - 135	1	25
Styrene	ND		50.0	53.7		ug/Kg		107	70 - 140	4	25
tert-Butylbenzene	ND		50.0	51.3		ug/Kg		103	60 - 140	3	25
1,1,1,2-Tetrachloroethane	ND		50.0	56.4		ug/Kg		113	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	52.6		ug/Kg		105	40 - 160	3	30
Tetrachloroethene	ND		50.0	59.7		ug/Kg		119	65 - 135	3	25
Toluene	ND		50.0	49.7		ug/Kg		99	70 - 130	2	20
trans-1,2-Dichloroethene	ND		50.0	55.9		ug/Kg		112	70 - 135	2	25
trans-1,3-Dichloropropene	ND		50.0	54.5		ug/Kg		109	60 - 145	3	25
1,2,3-Trichlorobenzene	ND		50.0	56.3		ug/Kg		113	45 - 145	1	30
1,2,4-Trichlorobenzene	ND		50.0	58.1		ug/Kg		116	50 - 140	1	30
1,1,1-Trichloroethane	ND		50.0	51.6		ug/Kg		103	65 - 145	3	20
1,1,2-Trichloroethane	ND		50.0	52.8		ug/Kg		106	65 - 140	6	30
Trichloroethene	ND		50.0	57.2		ug/Kg		114	65 - 140	1	25
Trichlorofluoromethane	ND		50.0	53.1		ug/Kg		106	55 - 155	2	25
1,2,3-Trichloropropane	ND		50.0	53.8		ug/Kg		108	50 - 150	5	30
1,2,4-Trimethylbenzene	ND		50.0	51.7		ug/Kg		103	65 - 140	2	25
1,3,5-Trimethylbenzene	ND		50.0	52.0		ug/Kg		104	65 - 135	3	25
Vinyl chloride	ND		50.0	49.6		ug/Kg		99	55 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Dibromofluoromethane (Surr)	*96*		*60 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-314911/1-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Acenaphthylene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-314911/1-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		420	85	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Anthracene	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzidine	ND		1300	660	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzo[a]anthracene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzo[a]pyrene	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzo[b]fluoranthene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzo[g,h,i]perylene	ND		330	110	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzoic acid	ND		830	340	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzo[k]fluoranthene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Benzyl alcohol	ND		330	150	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Bis(2-chloroethoxy)methane	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Bis(2-chloroethyl)ether	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
bis (2-chloroisopropyl) ether	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Bis(2-ethylhexyl) phthalate	ND		330	90	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Bromophenyl phenyl ether	ND		330	75	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Butyl benzyl phthalate	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Chloroaniline	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Chloro-3-methylphenol	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2-Chloronaphthalene	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2-Chlorophenol	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Chlorophenyl phenyl ether	ND		330	85	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Chrysene	ND		330	75	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Dibenz(a,h)anthracene	ND		420	100	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Dibenzofuran	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
1,2-Dichlorobenzene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
1,3-Dichlorobenzene	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
1,4-Dichlorobenzene	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
3,3'-Dichlorobenzidine	ND		830	150	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4-Dichlorophenol	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Diethyl phthalate	ND		330	95	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4-Dimethylphenol	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Dimethyl phthalate	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Di-n-butyl phthalate	ND		330	90	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4,6-Dinitro-2-methylphenol	ND		420	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4-Dinitrophenol	ND		660	330	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4-Dinitrotoluene	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,6-Dinitrotoluene	ND		330	95	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Di-n-octyl phthalate	ND		330	90	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Fluoranthene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Fluorene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Hexachlorobenzene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Hexachlorobutadiene	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Hexachlorocyclopentadiene	ND		830	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Hexachloroethane	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Indeno[1,2,3-cd]pyrene	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Isophorone	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-314911/1-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2-Methylphenol	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
3-Methylphenol + 4-Methylphenol	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Naphthalene	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2-Nitroaniline	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
3-Nitroaniline	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Nitroaniline	ND		830	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Nitrobenzene	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2-Nitrophenol	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
4-Nitrophenol	ND		830	140	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
N-Nitrosodimethylamine	ND		330	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
N-Nitrosodi-n-propylamine	ND		250	70	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
N-Nitrosodiphenylamine	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Pentachlorophenol	ND		830	340	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Phenanthrene	ND		330	67	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Phenol	ND		330	90	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
Pyrene	ND		330	80	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
1,2,4-Trichlorobenzene	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4,5-Trichlorophenol	ND		330	130	ug/Kg		03/02/16 16:02	03/03/16 15:53	1
2,4,6-Trichlorophenol	ND		330	75	ug/Kg		03/02/16 16:02	03/03/16 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 113*	*03/02/16 16:02*	*03/03/16 15:53*	*1*
2-Fluorophenol (Surr)	*63*		*18 - 138*	*03/02/16 16:02*	*03/03/16 15:53*	*1*
Nitrobenzene-d5 (Surr)	*53*		*39 - 104*	*03/02/16 16:02*	*03/03/16 15:53*	*1*
Phenol-d6 (Surr)	*59*		*37 - 125*	*03/02/16 16:02*	*03/03/16 15:53*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 125*	*03/02/16 16:02*	*03/03/16 15:53*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 147*	*03/02/16 16:02*	*03/03/16 15:53*	*1*

Lab Sample ID: LCS 440-314911/2-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3330	2490		ug/Kg		75	40 - 118
Acenaphthylene	3330	2550		ug/Kg		76	47 - 125
Aniline	3330	1500		ug/Kg		45	23 - 105
Anthracene	3330	2710		ug/Kg		81	51 - 122
Benzidine	3330	935	J	ug/Kg		28	5 - 61
Benzo[a]anthracene	3330	2530		ug/Kg		76	50 - 123
Benzo[a]pyrene	3330	2570		ug/Kg		77	52 - 125
Benzo[b]fluoranthene	3330	2480		ug/Kg		75	52 - 125
Benzo[g,h,i]perylene	3330	2250		ug/Kg		68	38 - 149
Benzoic acid	3330	2320		ug/Kg		70	28 - 120
Benzo[k]fluoranthene	3330	2450		ug/Kg		74	50 - 132
Benzyl alcohol	3330	1020		ug/Kg		31	20 - 133
Bis(2-chloroethoxy)methane	3330	2330		ug/Kg		70	39 - 119
Bis(2-chloroethyl)ether	3330	2360		ug/Kg		71	32 - 114

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-314911/2-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	3330	2130		ug/Kg		64	25 - 116
Bis(2-ethylhexyl) phthalate	3330	2280		ug/Kg		68	49 - 127
4-Bromophenyl phenyl ether	3330	2740		ug/Kg		82	52 - 126
Butyl benzyl phthalate	3330	2440		ug/Kg		73	48 - 130
4-Chloroaniline	3330	1480		ug/Kg		44	25 - 130
4-Chloro-3-methylphenol	3330	2390		ug/Kg		72	45 - 128
2-Chloronaphthalene	3330	2570		ug/Kg		77	43 - 120
2-Chlorophenol	3330	2510		ug/Kg		75	43 - 125
4-Chlorophenyl phenyl ether	3330	2610		ug/Kg		78	46 - 121
Chrysene	3330	2600		ug/Kg		78	51 - 127
Dibenz(a,h)anthracene	3330	2890		ug/Kg		87	45 - 136
Dibenzofuran	3330	2630		ug/Kg		79	47 - 120
1,2-Dichlorobenzene	3330	1990		ug/Kg		60	38 - 110
1,3-Dichlorobenzene	3330	1890		ug/Kg		57	37 - 106
1,4-Dichlorobenzene	3330	1910		ug/Kg		57	37 - 108
3,3'-Dichlorobenzidine	3330	2190		ug/Kg		66	28 - 114
2,4-Dichlorophenol	3330	2690		ug/Kg		81	49 - 127
Diethyl phthalate	3330	2670		ug/Kg		80	46 - 122
2,4-Dimethylphenol	3330	2680		ug/Kg		80	41 - 122
Dimethyl phthalate	3330	2660		ug/Kg		80	48 - 122
Di-n-butyl phthalate	3330	2270		ug/Kg		68	43 - 128
4,6-Dinitro-2-methylphenol	6670	5390		ug/Kg		81	38 - 137
2,4-Dinitrophenol	6670	4720		ug/Kg		71	34 - 124
2,4-Dinitrotoluene	3330	2670		ug/Kg		80	46 - 126
2,6-Dinitrotoluene	3330	2510		ug/Kg		75	48 - 126
Di-n-octyl phthalate	3330	2310		ug/Kg		69	47 - 133
1,2-Diphenylhydrazine(as Azobenzene)	3370	2540		ug/Kg		76	38 - 121
Fluoranthene	3330	2550		ug/Kg		76	44 - 123
Fluorene	3330	2620		ug/Kg		78	48 - 123
Hexachlorobenzene	3330	2630		ug/Kg		79	52 - 125
Hexachlorobutadiene	3330	2420		ug/Kg		72	40 - 114
Hexachlorocyclopentadiene	3330	1340		ug/Kg		40	17 - 119
Hexachloroethane	3330	1940		ug/Kg		58	34 - 107
Indeno[1,2,3-cd]pyrene	3330	2790		ug/Kg		84	46 - 148
Isophorone	3330	2150		ug/Kg		64	38 - 119
2-Methylnaphthalene	3330	2210		ug/Kg		66	44 - 119
2-Methylphenol	3330	2600		ug/Kg		78	42 - 130
3-Methylphenol + 4-Methylphenol	3330	2610		ug/Kg		78	42 - 138
Naphthalene	3330	2220		ug/Kg		67	42 - 115
2-Nitroaniline	3330	2610		ug/Kg		78	40 - 131
3-Nitroaniline	3330	2460		ug/Kg		74	39 - 129
4-Nitroaniline	3330	2650		ug/Kg		80	40 - 126
Nitrobenzene	3330	2260		ug/Kg		68	38 - 116
2-Nitrophenol	3330	2410		ug/Kg		72	44 - 124
4-Nitrophenol	6670	5190		ug/Kg		78	35 - 130
N-Nitrosodimethylamine	3330	1740		ug/Kg		52	28 - 107
N-Nitrosodi-n-propylamine	3330	2180		ug/Kg		66	31 - 124

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-314911/2-A
Matrix: Solid
Analysis Batch: 315178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiphenylamine	3330	2630		ug/Kg		79	48 - 130
Pentachlorophenol	6670	4350		ug/Kg		65	40 - 121
Phenanthrene	3330	2520		ug/Kg		76	51 - 122
Phenol	3330	2550		ug/Kg		76	42 - 133
Pyrene	3330	2480		ug/Kg		75	54 - 127
1,2,4-Trichlorobenzene	3330	2330		ug/Kg		70	42 - 111
2,4,5-Trichlorophenol	3330	2830		ug/Kg		85	51 - 125
2,4,6-Trichlorophenol	3330	2750		ug/Kg		82	48 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*42 - 113*
2-Fluorophenol (Surr)	*85*		*18 - 138*
Nitrobenzene-d5 (Surr)	*74*		*39 - 104*
Phenol-d6 (Surr)	*79*		*37 - 125*
Terphenyl-d14 (Surr)	*86*		*43 - 125*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 147*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-314906/1-A
Matrix: Solid
Analysis Batch: 315243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Acenaphthylene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Anthracene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Benzo[a]anthracene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Benzo[a]pyrene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Benzo[b]fluoranthene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Benzo[g,h,i]perylene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Benzo[k]fluoranthene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Chrysene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Dibenz(a,h)anthracene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Fluoranthene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Fluorene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Indeno[1,2,3-cd]pyrene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Naphthalene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Phenanthrene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1
Pyrene	ND		30	4.0	ug/Kg		03/02/16 15:51	03/03/16 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 111*	*03/02/16 15:51*	*03/03/16 20:57*	*1*
Nitrobenzene-d5	*66*		*41 - 119*	*03/02/16 15:51*	*03/03/16 20:57*	*1*
Terphenyl-d14	*86*		*43 - 150*	*03/02/16 15:51*	*03/03/16 20:57*	*1*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-314906/2-A
Matrix: Solid
Analysis Batch: 315243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	66.7	42.8		ug/Kg		64	53 - 120
Acenaphthylene	66.7	43.9		ug/Kg		66	54 - 120
Anthracene	66.7	45.8		ug/Kg		69	53 - 120
Benzo[a]anthracene	66.7	49.7		ug/Kg		75	56 - 120
Benzo[a]pyrene	66.7	49.1		ug/Kg		74	53 - 120
Benzo[b]fluoranthene	66.7	51.9		ug/Kg		78	53 - 120
Benzo[g,h,i]perylene	66.7	75.4		ug/Kg		113	51 - 150
Benzo[k]fluoranthene	66.7	52.3		ug/Kg		78	53 - 124
Chrysene	66.7	50.2		ug/Kg		75	56 - 120
Dibenz(a,h)anthracene	66.7	56.9		ug/Kg		85	51 - 131
Fluoranthene	66.7	48.4		ug/Kg		73	57 - 120
Fluorene	66.7	44.4		ug/Kg		67	54 - 120
Indeno[1,2,3-cd]pyrene	66.7	56.7		ug/Kg		85	50 - 137
Naphthalene	66.7	40.3		ug/Kg		60	49 - 120
Phenanthrene	66.7	46.0		ug/Kg		69	55 - 120
Pyrene	66.7	47.3		ug/Kg		71	56 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*39 - 111*
Nitrobenzene-d5	*56*		*41 - 119*
Terphenyl-d14	*81*		*43 - 150*

Lab Sample ID: 440-139080-A-1-L MS
Matrix: Solid
Analysis Batch: 315243

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 314906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		139	95.2		ug/Kg		69	45 - 120
Acenaphthylene	ND		139	101		ug/Kg		73	45 - 120
Anthracene	ND		139	103		ug/Kg		74	55 - 120
Benzo[a]anthracene	ND		139	114		ug/Kg		82	50 - 120
Benzo[a]pyrene	ND		139	112		ug/Kg		81	45 - 125
Benzo[b]fluoranthene	ND		139	118		ug/Kg		85	45 - 125
Benzo[g,h,i]perylene	ND		139	168		ug/Kg		121	25 - 130
Benzo[k]fluoranthene	ND		139	114		ug/Kg		82	45 - 125
Chrysene	ND		139	108		ug/Kg		78	55 - 120
Dibenz(a,h)anthracene	ND		139	122		ug/Kg		88	25 - 135
Fluoranthene	ND		139	116		ug/Kg		84	45 - 120
Fluorene	ND		139	102		ug/Kg		73	50 - 120
Indeno[1,2,3-cd]pyrene	ND		139	125		ug/Kg		90	20 - 130
Naphthalene	ND		139	94.7		ug/Kg		68	40 - 120
Phenanthrene	ND		139	105		ug/Kg		75	50 - 120
Pyrene	ND		139	115		ug/Kg		83	40 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*71*		*39 - 111*
Nitrobenzene-d5	*63*		*41 - 119*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 440-139080-A-1-L MS
Matrix: Solid
Analysis Batch: 315243

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 314906

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14	*84*		*43 - 150*

Lab Sample ID: 440-139080-A-1-M MSD
Matrix: Solid
Analysis Batch: 315243

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 314906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		142	87.6		ug/Kg		62	45 - 120	8	25
Acenaphthylene	ND		142	92.2		ug/Kg		65	45 - 120	9	20
Anthracene	ND		142	99.5		ug/Kg		70	55 - 120	3	25
Benzo[a]anthracene	ND		142	109		ug/Kg		77	50 - 120	4	25
Benzo[a]pyrene	ND		142	107		ug/Kg		75	45 - 125	4	25
Benzo[b]fluoranthene	ND		142	111		ug/Kg		78	45 - 125	6	30
Benzo[g,h,i]perylene	ND		142	162		ug/Kg		114	25 - 130	4	30
Benzo[k]fluoranthene	ND		142	114		ug/Kg		80	45 - 125	1	30
Chrysene	ND		142	106		ug/Kg		74	55 - 120	2	25
Dibenz(a,h)anthracene	ND		142	117		ug/Kg		83	25 - 135	4	30
Fluoranthene	ND		142	114		ug/Kg		80	45 - 120	2	25
Fluorene	ND		142	96.3		ug/Kg		68	50 - 120	5	25
Indeno[1,2,3-cd]pyrene	ND		142	120		ug/Kg		85	20 - 130	4	30
Naphthalene	ND		142	82.7		ug/Kg		58	40 - 120	13	25
Phenanthrene	ND		142	99.9		ug/Kg		70	50 - 120	5	25
Pyrene	ND		142	111		ug/Kg		79	40 - 125	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*60*		*39 - 111*
Nitrobenzene-d5	*56*		*41 - 119*
Terphenyl-d14	*84*		*43 - 150*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-315494/23
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/04/16 21:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*		*03/04/16 21:27*	*1*

Lab Sample ID: LCS 440-315494/21
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1510		ug/Kg		94	70 - 135		

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-315494/21
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		65 - 140

Lab Sample ID: LCSD 440-315494/22
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1500		ug/Kg		94	70 - 135	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	68		65 - 140

Lab Sample ID: 440-139553-A-1 MS
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1590	1370		ug/Kg		86	60 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		65 - 140

Lab Sample ID: 440-139553-A-1 MSD
Matrix: Solid
Analysis Batch: 315494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1600	1420		ug/Kg		88	60 - 140	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		65 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-315514/1-A
Matrix: Solid
Analysis Batch: 315707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		03/04/16 16:22	03/07/16 08:44	1
C23-C40	ND		5.0	2.5	mg/Kg		03/04/16 16:22	03/07/16 08:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		40 - 140	03/04/16 16:22	03/07/16 08:44	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-315514/2-A
Matrix: Solid
Analysis Batch: 315707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	53.9		mg/Kg		81	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*79*		*40 - 140*

Lab Sample ID: 440-139873-A-3-A MS
Matrix: Solid
Analysis Batch: 315707

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 315514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	1000	F2	138	1220	E 4	mg/Kg		143	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*84*		*40 - 140*

Lab Sample ID: 440-139873-A-3-B MSD
Matrix: Solid
Analysis Batch: 315707

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 315514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1000	F2	133	2000	E 4 F2	mg/Kg		732	40 - 120	48	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*78*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-314909/1-A
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Aldrin	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
alpha-BHC	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
beta-BHC	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Chlordane (technical)	ND		50	10	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
delta-BHC	ND		10	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Dieldrin	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endosulfan I	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endosulfan II	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endrin	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Endrin ketone	ND		5.0	2.0	ug/Kg		03/02/16 15:58	03/03/16 12:41	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-314909/1-A
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Heptachlor	ND		5.0	2.0	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Methoxychlor	ND		5.0	1.5	ug/Kg		03/02/16 15:58	03/03/16 12:41	1
Toxaphene	ND		200	50	ug/Kg		03/02/16 15:58	03/03/16 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 115*	*03/02/16 15:58*	*03/03/16 12:41*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*03/02/16 15:58*	*03/03/16 12:41*	*1*

Lab Sample ID: LCS 440-314909/19-A
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	26.7	23.8		ug/Kg		89	59 - 118
4,4'-DDE	26.7	25.0		ug/Kg		94	55 - 108
4,4'-DDT	26.7	24.6		ug/Kg		92	51 - 131
Aldrin	26.7	18.5		ug/Kg		70	46 - 96
alpha-BHC	26.7	20.1		ug/Kg		75	38 - 115
beta-BHC	26.7	21.0		ug/Kg		79	46 - 111
delta-BHC	26.7	21.9		ug/Kg		82	52 - 108
Dieldrin	26.7	20.9		ug/Kg		79	57 - 112
Endosulfan I	26.7	17.6		ug/Kg		66	56 - 107
Endosulfan II	26.7	20.9		ug/Kg		78	49 - 117
Endosulfan sulfate	26.7	21.6		ug/Kg		81	54 - 113
Endrin	26.7	24.4		ug/Kg		92	56 - 120
Endrin aldehyde	26.7	18.6		ug/Kg		70	41 - 105
Endrin ketone	26.7	20.9	p	ug/Kg		78	54 - 119
gamma-BHC (Lindane)	26.7	20.6		ug/Kg		77	49 - 103
Heptachlor	26.7	19.8		ug/Kg		74	52 - 113
Heptachlor epoxide	26.7	34.2		ug/Kg		128	38 - 128
Methoxychlor	26.7	24.7		ug/Kg		93	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F2	60.0	59.0		ug/Kg	☼	98	40 - 130
4,4'-DDE	86	F1	60.0	120		ug/Kg	☼	56	35 - 130
4,4'-DDT	ND	F1	60.0	102	F1 p	ug/Kg	☼	170	35 - 130
Aldrin	ND	F2	60.0	41.7		ug/Kg	☼	69	40 - 115
alpha-BHC	ND	F2	60.0	42.9		ug/Kg	☼	71	40 - 115

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	40		60.0	81.8		ug/Kg	☼	70	40 - 120
delta-BHC	ND	F2	60.0	55.7		ug/Kg	☼	93	45 - 120
Dieldrin	ND	F2	60.0	72.0		ug/Kg	☼	120	40 - 125
Endosulfan I	ND	F2 F1	60.0	31.6	p	ug/Kg	☼	53	40 - 120
Endosulfan II	ND	F2	60.0	40.3	p	ug/Kg	☼	67	40 - 125
Endosulfan sulfate	ND		60.0	39.5	p	ug/Kg	☼	66	45 - 120
Endrin	ND		60.0	43.2		ug/Kg	☼	72	45 - 125
Endrin aldehyde	ND		60.0	30.9	p	ug/Kg	☼	51	30 - 120
Endrin ketone	ND		60.0	58.1		ug/Kg	☼	97	40 - 120
gamma-BHC (Lindane)	ND		60.0	42.9		ug/Kg	☼	71	40 - 120
Heptachlor	ND	F2	60.0	46.0		ug/Kg	☼	77	40 - 115
Heptachlor epoxide	ND	F1	60.0	78.9	F1	ug/Kg	☼	131	45 - 115
Methoxychlor	ND		60.0	59.6		ug/Kg	☼	99	40 - 135

Lab Sample ID: 440-139746-1 MSD
Matrix: Solid
Analysis Batch: 315074

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F2	60.2	42.7	F2	ug/Kg	☼	71	40 - 130	32	30
4,4'-DDE	86	F1	60.2	98.7	F1	ug/Kg	☼	21	35 - 130	18	30
4,4'-DDT	ND	F1	60.2	76.8	p	ug/Kg	☼	128	35 - 130	28	30
Aldrin	ND	F2	60.2	29.5	F2	ug/Kg	☼	49	40 - 115	34	30
alpha-BHC	ND	F2	60.2	31.4	F2	ug/Kg	☼	52	40 - 115	31	30
beta-BHC	40		60.2	65.8		ug/Kg	☼	44	40 - 120	22	30
delta-BHC	ND	F2	60.2	35.5	F2	ug/Kg	☼	59	45 - 120	31	30
Dieldrin	ND	F2	60.2	50.0	F2	ug/Kg	☼	83	40 - 125	36	30
Endosulfan I	ND	F2 F1	60.2	22.9	p F1 F2	ug/Kg	☼	38	40 - 120	32	30
Endosulfan II	ND	F2	60.2	28.1	p F2	ug/Kg	☼	47	40 - 125	36	30
Endosulfan sulfate	ND		60.2	29.7	p	ug/Kg	☼	49	45 - 120	28	30
Endrin	ND		60.2	33.3		ug/Kg	☼	55	45 - 125	26	30
Endrin aldehyde	ND		60.2	24.0	p	ug/Kg	☼	40	30 - 120	25	30
Endrin ketone	ND		60.2	45.8		ug/Kg	☼	76	40 - 120	24	30
gamma-BHC (Lindane)	ND		60.2	32.6		ug/Kg	☼	54	40 - 120	27	30
Heptachlor	ND	F2	60.2	33.4	F2	ug/Kg	☼	55	40 - 115	32	30
Heptachlor epoxide	ND	F1	60.2	60.4		ug/Kg	☼	100	45 - 115	27	30
Methoxychlor	ND		60.2	46.8		ug/Kg	☼	78	40 - 135	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*50*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*140*	*p X*	*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-314909/1-A
Matrix: Solid
Analysis Batch: 315081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1221	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1232	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1242	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1248	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1254	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1
Aroclor 1260	ND		50	17	ug/Kg		03/02/16 15:58	03/03/16 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*110*		*45 - 120*	*03/02/16 15:58*	*03/03/16 13:29*	*1*

Lab Sample ID: LCS 440-314909/2-A
Matrix: Solid
Analysis Batch: 315081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314909

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	273		ug/Kg		103	65 - 115		
Aroclor 1260			267	282		ug/Kg		106	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*109*		*45 - 120*

Lab Sample ID: 440-138712-A-1-D MS
Matrix: Solid
Analysis Batch: 315081

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	F1 F2	537	479		ug/Kg		89	50 - 120		
Aroclor 1260	ND		537	438		ug/Kg		82	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Lab Sample ID: 440-138712-A-1-E MSD
Matrix: Solid
Analysis Batch: 315081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 314909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1 F2	537	148	* F1 F2	ug/Kg		28	50 - 120	106	30
Aroclor 1260	ND		537	345	*	ug/Kg		64	50 - 125	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*	*	*45 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-315325/6
Matrix: Solid
Analysis Batch: 315325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	3.72	J	ug/L		93	75 - 125

Lab Sample ID: MRL 440-315977/5
Matrix: Solid
Analysis Batch: 315977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	3.91	J	ug/L		98	75 - 125

Lab Sample ID: MB 440-315407/1-A
Matrix: Solid
Analysis Batch: 315325

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.040	0.0095	mg/Kg			03/04/16 17:56	1

Lab Sample ID: LCS 440-315407/2-A
Matrix: Solid
Analysis Batch: 315325

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.501	0.527		mg/Kg		105	85 - 115

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 315977

Client Sample ID: NERT-CS-01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	7.9	F2	0.562	6.94	4	mg/Kg	☼	-166	80 - 120

Lab Sample ID: 440-139746-1 MSD
Matrix: Solid
Analysis Batch: 315977

Client Sample ID: NERT-CS-01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	7.9	F2	0.561	8.58	4 F2	mg/Kg	☼	126	80 - 120	21	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 440-315172/1-A
Matrix: Solid
Analysis Batch: 315266

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		1.5	1.1	mg/Kg			03/03/16 23:45	1
Orthophosphate as PO4	ND		5.0	4.0	mg/Kg			03/03/16 23:45	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-315172/2-A
Matrix: Solid
Analysis Batch: 315266

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N			15.2	14.6		mg/Kg		96	90 - 110		
Orthophosphate as PO4			50.0	50.2		mg/Kg		100	90 - 110		

Lab Sample ID: 440-139709-A-1-B MS
Matrix: Solid
Analysis Batch: 315266

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N	ND		19.6	17.0		mg/Kg	☼	87	80 - 120		
Orthophosphate as PO4	ND	F1	64.4	43.0	F1	mg/Kg	☼	67	80 - 120		

Lab Sample ID: 440-139709-A-1-C MSD
Matrix: Solid
Analysis Batch: 315266

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		19.8	18.0		mg/Kg	☼	91	80 - 120	6	20
Orthophosphate as PO4	ND	F1	64.9	46.0	F1	mg/Kg	☼	71	80 - 120	7	20

Lab Sample ID: MB 440-315172/1-A
Matrix: Solid
Analysis Batch: 315267

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		5.0	3.5	mg/Kg			03/03/16 23:45	1

Lab Sample ID: LCS 440-315172/2-A
Matrix: Solid
Analysis Batch: 315267

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			50.0	47.2		mg/Kg		94	90 - 110		

Lab Sample ID: 440-139709-A-1-B MS
Matrix: Solid
Analysis Batch: 315267

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	11	F1	49.9	49.6	F1	mg/Kg		78	80 - 120		

Lab Sample ID: 440-139709-A-1-C MSD
Matrix: Solid
Analysis Batch: 315267

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	11	F1	50.3	49.4	F1	mg/Kg		77	80 - 120	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 440-317946/1-A
Matrix: Solid
Analysis Batch: 317914

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.1	0.80	mg/Kg			03/16/16 17:44	1
Nitrate as NO3	ND		5.0	3.5	mg/Kg			03/16/16 17:44	1

Lab Sample ID: LCS 440-317946/2-A
Matrix: Solid
Analysis Batch: 317914

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	11.3	11.2		mg/Kg		99	90 - 110
Nitrate as NO3	50.0	49.5		mg/Kg		99	90 - 110

Lab Sample ID: 440-140140-D-1-B MS
Matrix: Solid
Analysis Batch: 317914

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		59.4	49.4		mg/Kg	☼	83	80 - 120
Nitrate as NO3	ND		263	219		mg/Kg	☼	83	80 - 120

Lab Sample ID: 440-140140-D-1-C MSD
Matrix: Solid
Analysis Batch: 317914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		58.9	48.6		mg/Kg	☼	83	80 - 120	2	20
Nitrate as NO3	ND		261	215		mg/Kg	☼	83	80 - 120	2	20

Lab Sample ID: MB 440-317946/1-A
Matrix: Solid
Analysis Batch: 317915

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.0	3.5	mg/Kg			03/16/16 17:44	1
Chloride	ND		5.0	4.0	mg/Kg			03/16/16 17:44	1
Sulfate	ND		5.0	4.0	mg/Kg			03/16/16 17:44	1

Lab Sample ID: LCS 440-317946/2-A
Matrix: Solid
Analysis Batch: 317915

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	50.0	48.1		mg/Kg		96	90 - 110
Chloride	50.0	45.8		mg/Kg		92	90 - 110
Sulfate	50.0	46.6		mg/Kg		93	90 - 110

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-140140-D-1-B MS
Matrix: Solid
Analysis Batch: 317915

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		49.9	51.8		mg/Kg		104	80 - 120
Sulfate	12		49.9	59.1		mg/Kg		94	80 - 120

Lab Sample ID: 440-140140-D-1-C MSD
Matrix: Solid
Analysis Batch: 317915

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		49.5	51.3		mg/Kg		104	80 - 120	1	20
Sulfate	12		49.5	56.1		mg/Kg		89	80 - 120	5	20

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-103075/1-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103075

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.054	pg/g		03/11/16 11:12	03/15/16 02:27	1
2,3,7,8-TCDF	ND		1.0	0.049	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,7,8-PeCDD	ND		5.0	0.056	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,7,8-PeCDF	ND		5.0	0.038	pg/g		03/11/16 11:12	03/15/16 02:27	1
2,3,4,7,8-PeCDF	ND		5.0	0.038	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.037	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.036	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.031	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.034	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.031	pg/g		03/11/16 11:12	03/15/16 02:27	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.033	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.035	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,4,6,7,8-HpCDD	0.0925	J	5.0	0.043	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,4,6,7,8-HpCDF	ND		5.0	0.030	pg/g		03/11/16 11:12	03/15/16 02:27	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.038	pg/g		03/11/16 11:12	03/15/16 02:27	1
OCDD	0.955	J	10	0.034	pg/g		03/11/16 11:12	03/15/16 02:27	1
OCDF	0.205	J	10	0.055	pg/g		03/11/16 11:12	03/15/16 02:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*78*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-2,3,7,8-TCDF	*76*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,6,7,8-HxCDD	*82*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,4,7,8-HxCDF	*76*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*
13C-OCDD	*91*		*40 - 135*	*03/11/16 11:12*	*03/15/16 02:27*	*1*

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-103075/2-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103075

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			20.0	22.3		pg/g		112	60 - 138		
2,3,7,8-TCDF			20.0	22.3		pg/g		112	56 - 158		
1,2,3,7,8-PeCDD			100	114		pg/g		114	70 - 122		
1,2,3,7,8-PeCDF			100	118		pg/g		118	69 - 134		
2,3,4,7,8-PeCDF			100	115		pg/g		115	70 - 131		
1,2,3,4,7,8-HxCDD			100	105		pg/g		105	60 - 138		
1,2,3,6,7,8-HxCDD			100	114		pg/g		114	68 - 136		
1,2,3,7,8,9-HxCDD			100	110		pg/g		110	68 - 138		
1,2,3,4,7,8-HxCDF			100	114		pg/g		114	74 - 128		
1,2,3,6,7,8-HxCDF			100	122		pg/g		122	67 - 140		
2,3,4,6,7,8-HxCDF			100	120		pg/g		120	71 - 137		
1,2,3,7,8,9-HxCDF			100	118		pg/g		118	72 - 134		
1,2,3,4,6,7,8-HpCDD			100	116		pg/g		116	71 - 128		
1,2,3,4,6,7,8-HpCDF			100	113		pg/g		113	71 - 134		
1,2,3,4,7,8,9-HpCDF			100	123		pg/g		123	68 - 129		
OCDD			200	233		pg/g		116	70 - 128		
OCDF			200	232		pg/g		116	63 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*78*		*40 - 135*
13C-2,3,7,8-TCDF	*76*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*77*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*81*		*40 - 135*
13C-OCDD	*93*		*40 - 135*

Lab Sample ID: LCSD 320-103075/3-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103075

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			20.0	22.3		pg/g		112	60 - 138	0	20
2,3,7,8-TCDF			20.0	22.6		pg/g		113	56 - 158	1	20
1,2,3,7,8-PeCDD			100	114		pg/g		114	70 - 122	0	20
1,2,3,7,8-PeCDF			100	118		pg/g		118	69 - 134	0	20
2,3,4,7,8-PeCDF			100	115		pg/g		115	70 - 131	0	20
1,2,3,4,7,8-HxCDD			100	107		pg/g		107	60 - 138	1	20
1,2,3,6,7,8-HxCDD			100	115		pg/g		115	68 - 136	1	20
1,2,3,7,8,9-HxCDD			100	111		pg/g		111	68 - 138	1	20
1,2,3,4,7,8-HxCDF			100	116		pg/g		116	74 - 128	1	20
1,2,3,6,7,8-HxCDF			100	122		pg/g		122	67 - 140	0	20
2,3,4,6,7,8-HxCDF			100	121		pg/g		121	71 - 137	1	20
1,2,3,7,8,9-HxCDF			100	119		pg/g		119	72 - 134	1	20
1,2,3,4,6,7,8-HpCDD			100	115		pg/g		115	71 - 128	1	20
1,2,3,4,6,7,8-HpCDF			100	113		pg/g		113	71 - 134	0	20

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-103075/3-A
Matrix: Solid
Analysis Batch: 103354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103075

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,4,7,8,9-HpCDF			100	123		pg/g		123	68 - 129	0	20
OCDD			200	232		pg/g		116	70 - 128	0	20
OCDF			200	233		pg/g		116	63 - 141	0	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*78*		*40 - 135*
13C-2,3,7,8-TCDF	*75*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*76*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*83*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*76*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*81*		*40 - 135*
13C-OCDD	*92*		*40 - 135*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-315044/1-A ^5
Matrix: Solid
Analysis Batch: 315245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Chromium	ND		0.99	0.50	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Magnesium	ND		9.9	5.0	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Manganese	1.38	J	2.0	0.99	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Titanium	ND		2.0	0.99	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Cadmium	ND		0.50	0.25	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Barium	ND		1.5	0.74	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Silver	ND		1.5	0.74	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Lead	ND		2.0	0.99	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Selenium	ND		3.0	1.5	mg/Kg		03/03/16 08:51	03/03/16 16:39	5
Iron	9.45	J	9.9	5.0	mg/Kg		03/03/16 08:51	03/03/16 16:39	5

Lab Sample ID: LCS 440-315044/2-A ^5
Matrix: Solid
Analysis Batch: 315245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	48.6		mg/Kg		98	80 - 120
Chromium	49.5	52.0		mg/Kg		105	80 - 120
Magnesium	248	254		mg/Kg		103	80 - 120
Manganese	49.5	50.7		mg/Kg		102	80 - 120
Titanium	49.5	51.6		mg/Kg		104	80 - 120
Cadmium	49.5	48.0		mg/Kg		97	80 - 120
Barium	49.5	50.6		mg/Kg		102	80 - 120
Silver	24.8	24.5		mg/Kg		99	80 - 120
Lead	49.5	49.1		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-315044/2-A ^5
Matrix: Solid
Analysis Batch: 315245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	49.5	42.8		mg/Kg		86	80 - 120
Iron	49.5	53.9		mg/Kg		109	80 - 120

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 315245

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 315044

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	190	F1	55.8	317	F1	mg/Kg	☼	223	75 - 125
Chromium	140	F1	55.8	215	F1	mg/Kg	☼	135	75 - 125
Magnesium	7900		279	9220	4	mg/Kg	☼	466	75 - 125
Manganese	60000	B F2	55.8	104000	4	mg/Kg	☼	78870	75 - 125
Titanium	650		55.8	1310	4	mg/Kg	☼	1191	75 - 125
Cadmium	ND		55.8	58.2		mg/Kg	☼	104	75 - 125
Barium	4800	F2	55.8	8600	4	mg/Kg	☼	6858	75 - 125
Silver	ND		27.9	42.4	J	mg/Kg	☼	NC	75 - 125
Lead	2100	F2	55.8	3500	4	mg/Kg	☼	2439	75 - 125
Selenium	ND		55.8	ND		mg/Kg	☼	NC	75 - 125
Iron	20000	B	55.8	30600	4	mg/Kg	☼	18549	75 - 125

Lab Sample ID: 440-139746-1 MSD
Matrix: Solid
Analysis Batch: 315245

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 315044

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	190	F1	55.8	367	F1	mg/Kg	☼	313	75 - 125	15	20
Chromium	140	F1	55.8	234	F1	mg/Kg	☼	170	75 - 125	9	20
Magnesium	7900		279	8400	4	mg/Kg	☼	170	75 - 125	9	20
Manganese	60000	B F2	55.8	64600	4 F2	mg/Kg	☼	7444	75 - 125	47	20
Titanium	650		55.8	1560	4	mg/Kg	☼	1630	75 - 125	17	20
Cadmium	ND		55.8	55.7		mg/Kg	☼	100	75 - 125	4	20
Barium	4800	F2	55.8	6280	4 F2	mg/Kg	☼	2700	75 - 125	31	20
Silver	ND		27.9	ND		mg/Kg	☼	NC	75 - 125	NC	20
Lead	2100	F2	55.8	2640	4 F2	mg/Kg	☼	899	75 - 125	28	20
Selenium	ND		55.8	ND		mg/Kg	☼	NC	75 - 125	NC	20
Iron	20000	B	55.8	36300	4	mg/Kg	☼	28626	75 - 125	17	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-239360/1-A
Matrix: Solid
Analysis Batch: 239840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		0.090	0.017	mg/Kg		03/07/16 10:04	03/08/16 17:46	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-239360/2-A
Matrix: Solid
Analysis Batch: 239840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	0.890	0.876		mg/Kg		98	80 - 120

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 239840

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 239360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	0.24	J	0.997	1.33		mg/Kg	☼	110	75 - 125

Lab Sample ID: 440-139746-1 MSD
Matrix: Solid
Analysis Batch: 239840

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 239360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Platinum	0.24	J	1.11	1.21		mg/Kg	☼	87	75 - 125	10	30

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-317684/1-A
Matrix: Solid
Analysis Batch: 318199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		03/15/16 17:30	03/16/16 16:02	1

Lab Sample ID: LCS 440-317684/2-A
Matrix: Solid
Analysis Batch: 318199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.854		mg/Kg		107	80 - 120

Lab Sample ID: 440-140110-D-1-F MS
Matrix: Solid
Analysis Batch: 318199

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 317684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.021		0.816	0.914		mg/Kg		109	70 - 130

Lab Sample ID: 440-140110-D-1-G MSD
Matrix: Solid
Analysis Batch: 318199

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 317684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.021		0.800	0.905		mg/Kg		110	70 - 130	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 440-315858/1-A
Matrix: Solid
Analysis Batch: 316152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		1.0	0.40	mg/Kg		03/07/16 14:23	03/08/16 18:39	1

Lab Sample ID: LCS 440-315858/2-A ^2
Matrix: Solid
Analysis Batch: 316152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315858

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			40.3	36.5		mg/Kg		91	80 - 120		

Lab Sample ID: 440-139810-A-1-C MS ^2
Matrix: Solid
Analysis Batch: 316152

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 315858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		40.7	37.0		mg/Kg		91	75 - 125		

Lab Sample ID: 440-139810-A-1-D MSD ^2
Matrix: Solid
Analysis Batch: 316152

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 315858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	ND		39.5	35.9		mg/Kg		91	75 - 125	3	20

Lab Sample ID: 440-139810-A-1-E MSI ^100
Matrix: Solid
Analysis Batch: 316152

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 315858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	ND		1010	619		mg/Kg		61	55 - 110		

Method: 9014 - Cyanide

Lab Sample ID: MB 440-315922/1-A
Matrix: Solid
Analysis Batch: 316174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		03/07/16 19:00	03/08/16 22:51	1

Lab Sample ID: LCS 440-315922/2-A
Matrix: Solid
Analysis Batch: 316174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315922

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			4.98	4.50		mg/Kg		90	90 - 110		

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 440-140110-D-1-C MS
Matrix: Solid
Analysis Batch: 316174

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 315922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.7	F1	4.93	12.5	F1	mg/Kg		158	70 - 115

Lab Sample ID: 440-140110-D-1-D MSD
Matrix: Solid
Analysis Batch: 316174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 315922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	4.7	F1	4.96	12.3	F1	mg/Kg		154	70 - 115	1	15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 440-315146/1-A
Matrix: Solid
Analysis Batch: 315202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		40	20	mg/Kg		03/03/16 13:14	03/03/16 15:25	1

Lab Sample ID: LCS 440-315146/2-A
Matrix: Solid
Analysis Batch: 315202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	104	95.8		mg/Kg		92	80 - 120

Lab Sample ID: 440-139746-1 MS
Matrix: Solid
Analysis Batch: 315202

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 315146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND	F1	116	80.6	F1	mg/Kg	☼	69	70 - 130

Lab Sample ID: 440-139746-1 MSD
Matrix: Solid
Analysis Batch: 315202

Client Sample ID: NERT-CS-01
Prep Type: Total/NA
Prep Batch: 315146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND	F1	117	81.1	F1	mg/Kg	☼	69	70 - 130	1	30

Method: 9045C - pH

Lab Sample ID: 440-139709-B-2-C DU
Matrix: Solid
Analysis Batch: 315190

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.35		8.410		SU		0.7	2

GC/MS VOA

Analysis Batch: 315030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138712-A-13 MS	Matrix Spike	Total/NA	Solid	8260B	
440-138712-A-13 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-139746-1	NERT-CS-01	Total/NA	Solid	8260B	
LCS 440-315030/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-315030/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 314906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139080-A-1-L MS	Matrix Spike	Total/NA	Solid	3546	
440-139080-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-139746-1	NERT-CS-01	Total/NA	Solid	3546	
LCS 440-314906/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-314906/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 314911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	3546	
LCS 440-314911/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-314911/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 315178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8270C	314911
LCS 440-314911/2-A	Lab Control Sample	Total/NA	Solid	8270C	314911
MB 440-314911/1-A	Method Blank	Total/NA	Solid	8270C	314911

Analysis Batch: 315243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139080-A-1-L MS	Matrix Spike	Total/NA	Solid	8270C SIM	314906
440-139080-A-1-M MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	314906
LCS 440-314906/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	314906
MB 440-314906/1-A	Method Blank	Total/NA	Solid	8270C SIM	314906

Analysis Batch: 315605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8270C SIM	314906

GC VOA

Analysis Batch: 315494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139553-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-139553-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	
440-139746-1	NERT-CS-01	Total/NA	Solid	8015B	
LCS 440-315494/21	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-315494/22	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 440-315494/23	Method Blank	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 314909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138712-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	
440-138712-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-139746-1	NERT-CS-01	Total/NA	Solid	3546	
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	3546	
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	3546	
LCS 440-314909/19-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-314909/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-314909/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 315074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8081A	314909
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	8081A	314909
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	8081A	314909
LCS 440-314909/19-A	Lab Control Sample	Total/NA	Solid	8081A	314909
MB 440-314909/1-A	Method Blank	Total/NA	Solid	8081A	314909

Analysis Batch: 315081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-138712-A-1-D MS	Matrix Spike	Total/NA	Solid	8082	314909
440-138712-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	314909
440-139746-1	NERT-CS-01	Total/NA	Solid	8082	314909
LCS 440-314909/2-A	Lab Control Sample	Total/NA	Solid	8082	314909
MB 440-314909/1-A	Method Blank	Total/NA	Solid	8082	314909

Prep Batch: 315514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	3546	
440-139873-A-3-A MS	Matrix Spike	Total/NA	Solid	3546	
440-139873-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-315514/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-315514/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 315707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8015B	315514
440-139873-A-3-A MS	Matrix Spike	Total/NA	Solid	8015B	315514
440-139873-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	315514
LCS 440-315514/2-A	Lab Control Sample	Total/NA	Solid	8015B	315514
MB 440-315514/1-A	Method Blank	Total/NA	Solid	8015B	315514

HPLC/IC

Leach Batch: 315172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139709-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
440-139709-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
440-139746-1	NERT-CS-01	Soluble	Solid	DI Leach	
LCS 440-315172/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-315172/1-A	Method Blank	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Analysis Batch: 315266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139709-A-1-B MS	Matrix Spike	Soluble	Solid	9056A	315172
440-139709-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056A	315172
440-139746-1	NERT-CS-01	Soluble	Solid	9056A	315172
LCS 440-315172/2-A	Lab Control Sample	Soluble	Solid	9056A	315172
MB 440-315172/1-A	Method Blank	Soluble	Solid	9056A	315172

Analysis Batch: 315267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139709-A-1-B MS	Matrix Spike	Soluble	Solid	9056A	315172
440-139709-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056A	315172
440-139746-1	NERT-CS-01	Soluble	Solid	9056A	315172
LCS 440-315172/2-A	Lab Control Sample	Soluble	Solid	9056A	315172
MB 440-315172/1-A	Method Blank	Soluble	Solid	9056A	315172

Analysis Batch: 315325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-315407/2-A	Lab Control Sample	Soluble	Solid	314.0	315407
MB 440-315407/1-A	Method Blank	Soluble	Solid	314.0	315407
MRL 440-315325/6	Lab Control Sample	Total/NA	Solid	314.0	

Leach Batch: 315407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	DI Leach	
440-139746-1 MS	NERT-CS-01	Soluble	Solid	DI Leach	
440-139746-1 MSD	NERT-CS-01	Soluble	Solid	DI Leach	
LCS 440-315407/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-315407/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 315977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	314.0	315407
440-139746-1 MS	NERT-CS-01	Soluble	Solid	314.0	315407
440-139746-1 MSD	NERT-CS-01	Soluble	Solid	314.0	315407
MRL 440-315977/5	Lab Control Sample	Total/NA	Solid	314.0	

Analysis Batch: 317914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	9056A	317946
440-140140-D-1-B MS	Matrix Spike	Soluble	Solid	9056A	317946
440-140140-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056A	317946
LCS 440-317946/2-A	Lab Control Sample	Soluble	Solid	9056A	317946
MB 440-317946/1-A	Method Blank	Soluble	Solid	9056A	317946

Analysis Batch: 317915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	9056A	317946
440-139746-1	NERT-CS-01	Soluble	Solid	9056A	317946
440-140140-D-1-B MS	Matrix Spike	Soluble	Solid	9056A	317946
440-140140-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056A	317946
LCS 440-317946/2-A	Lab Control Sample	Soluble	Solid	9056A	317946
MB 440-317946/1-A	Method Blank	Soluble	Solid	9056A	317946

Leach Batch: 317946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	DI Leach	
440-140140-D-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
440-140140-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
LCS 440-317946/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-317946/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 318540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Soluble	Solid	NO3NO2 Calc	

Specialty Organics

Prep Batch: 103075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8290	
440-139746-1 - RA	NERT-CS-01	Total/NA	Solid	8290	
LCS 320-103075/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-103075/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	
MB 320-103075/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 103315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1 - RA	NERT-CS-01	Total/NA	Solid	8290	103075

Analysis Batch: 103354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	8290	103075
LCS 320-103075/2-A	Lab Control Sample	Total/NA	Solid	8290	103075
LCSD 320-103075/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	103075
MB 320-103075/1-A	Method Blank	Total/NA	Solid	8290	103075

Metals

Prep Batch: 239360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	3050B	
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	3050B	
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	3050B	
LCS 160-239360/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-239360/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 239840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	6020A	239360
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	6020A	239360
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	6020A	239360
LCS 160-239360/2-A	Lab Control Sample	Total/NA	Solid	6020A	239360
MB 160-239360/1-A	Method Blank	Total/NA	Solid	6020A	239360

Prep Batch: 315044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 315044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	3050B	
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	3050B	
LCS 440-315044/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-315044/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 315245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	6010B	315044
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	6010B	315044
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	6010B	315044
LCS 440-315044/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	315044
MB 440-315044/1-A ^5	Method Blank	Total/NA	Solid	6010B	315044

Prep Batch: 317684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	7471A	
440-140110-D-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
440-140110-D-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-317684/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-317684/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 318199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	7471A	317684
440-140110-D-1-F MS	Matrix Spike	Total/NA	Solid	7471A	317684
440-140110-D-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	317684
LCS 440-317684/2-A	Lab Control Sample	Total/NA	Solid	7471A	317684
MB 440-317684/1-A	Method Blank	Total/NA	Solid	7471A	317684

General Chemistry

Leach Batch: 315107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139709-B-2-C DU	Duplicate	Soluble	Solid	DI Leach	
440-139746-1	NERT-CS-01	Soluble	Solid	DI Leach	

Prep Batch: 315146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	9030B	
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	9030B	
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	9030B	
LCS 440-315146/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 440-315146/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 315190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139709-B-2-C DU	Duplicate	Soluble	Solid	9045C	315107
440-139746-1	NERT-CS-01	Soluble	Solid	9045C	315107

General Chemistry (Continued)

Analysis Batch: 315202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	9034	315146
440-139746-1 MS	NERT-CS-01	Total/NA	Solid	9034	315146
440-139746-1 MSD	NERT-CS-01	Total/NA	Solid	9034	315146
LCS 440-315146/2-A	Lab Control Sample	Total/NA	Solid	9034	315146
MB 440-315146/1-A	Method Blank	Total/NA	Solid	9034	315146

Analysis Batch: 315263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	Moisture	
440-139746-1 DU	NERT-CS-01	Total/NA	Solid	Moisture	

Analysis Batch: 315265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	7.1.2	

Prep Batch: 315858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	3060A	
440-139810-A-1-C MS ^2	Matrix Spike	Total/NA	Solid	3060A	
440-139810-A-1-D MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	3060A	
440-139810-A-1-E MSI ^100	Matrix Spike	Total/NA	Solid	3060A	
LCS 440-315858/2-A ^2	Lab Control Sample	Total/NA	Solid	3060A	
MB 440-315858/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 315922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	9010B	
440-140110-D-1-C MS	Matrix Spike	Total/NA	Solid	9010B	
440-140110-D-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	9010B	
LCS 440-315922/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 440-315922/1-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 316152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	7196A	315858
440-139810-A-1-C MS ^2	Matrix Spike	Total/NA	Solid	7196A	315858
440-139810-A-1-D MSD ^2	Matrix Spike Duplicate	Total/NA	Solid	7196A	315858
440-139810-A-1-E MSI ^100	Matrix Spike	Total/NA	Solid	7196A	315858
LCS 440-315858/2-A ^2	Lab Control Sample	Total/NA	Solid	7196A	315858
MB 440-315858/1-A	Method Blank	Total/NA	Solid	7196A	315858

Analysis Batch: 316174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139746-1	NERT-CS-01	Total/NA	Solid	9014	315922
440-140110-D-1-C MS	Matrix Spike	Total/NA	Solid	9014	315922
440-140110-D-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	9014	315922
LCS 440-315922/2-A	Lab Control Sample	Total/NA	Solid	9014	315922
MB 440-315922/1-A	Method Blank	Total/NA	Solid	9014	315922

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Dioxin

Qualifier	Qualifier Description
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312007A	07-31-16
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-16 *
Oregon	NELAP	10	4005	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	900	09-03-16

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-17
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-17
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-Q	01-29-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	ELAP	9	2886	03-31-16 *
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-10-16 *
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-16 *
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

EMLab P&K
A TestAmerica Company

Report for:

Patty Mata
TestAmerica-Irvine
17461 Derian Ave.
Suite 100
Irvine, CA 92614

Regarding: Project: 440-139746-1; NERT Stormwater Outfall
EML ID: 1503352

Approved by:

Approved Signatory
Noah Lazarte

Dates of Analysis:
Asbestos PLM: 03-04-2016

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

EMLab P&K
4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Irvine
C/O: Patty Mata
Re: 440-139746-1; NERT Stormwater Outfall

Date of Sampling: 02-26-2016
Date of Receipt: 03-03-2016
Date of Report: 03-04-2016

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	1
Total Samples Analyzed:	1
Total Samples with Layer Asbestos Content > 1%:	0

Location: 440-139746-1, NERT-CS-01

Lab ID-Version‡: 6951412-1

Sample Layers	Asbestos Content
Brown Soil	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Comments: Due to the nature of a soil/rock sample, making proper slide mounts was not possible. It is recommended that the sample be analyzed using the CARB 435 method.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Mueller, Teresa

From: keverett@losonow.com
Sent: Thursday, March 03, 2016 6:40 PM
To: Mueller, Teresa
Cc: Mata, Patty
Subject: Re: TestAmerica Sample Login Confirmation files from 440-139746 NERT Stormwater Outfall
Follow Up Flag: Follow up
Flag Status: Green

Yes.

Sent from my iPhone

On Mar 3, 2016, at 6:05 PM, Mueller, Teresa <Teresa.Mueller@testamericainc.com> wrote:

> Hello Kris,
>
> Does the attached sample require full range 8015 TPH analysis?
>
> Thank you,
>
> **TERESA MUELLER**
> Project Manager/Project Management Assistant
>
> TestAmerica
> THE LEADER IN ENVIRONMENTAL TESTING
>
> 17461 Derian Avenue Suite #100
> Irvine, CA 92614
> Tel 949 261 1022 Fax 949 260 3299
> Dir 949 260 3223
> www.testamericainc.com
>
> ---
>
> **From:** keverett@losonow.com [mailto:keverett@losonow.com]
> **Sent:** Thursday, March 03, 2016 1:47 PM
> **To:** Mueller, Teresa; Mata, Patty
> **Subject:** RE: TestAmerica Sample Login Confirmation files from 440-139746 NERT Stormwater Outfall
>
> Thanks for update.
>
> Kris
>
> **From:** Mueller, Teresa [mailto:teresa.mueller@testamericainc.com]
> **Sent:** Thursday, March 03, 2016 1:06 PM
> **To:** keverett@losonow.com; Patty Mata <patty.mata@testamericainc.com>
> **Subject:** TestAmerica Sample Login Confirmation files from 440-139746 NERT Stormwater Outfall
>
> Hello,
>
> Attached, please find the Sample Confirmation files for job 440-139746; NERT Stormwater Outfall.

Receipt Notes: As discussed, due to current laboratory capacity and method requirements, the laboratory cannot meet the requested 2 day turnaround. Dioxin/Furan analysis will be analyzed on a 12 business day turnaround and reported under SDG 440-139746-2. All other analysis requested will be analyzed on a 5 day turnaround, and reported under SDG 440-139746-1.

Please feel free to contact me or your PM, Patty Mata, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
Project Feedback

TERESA D MUELLER
Project Management Assistant I

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261.1022

Reference: [261500]
Attachments: 3

<COC 440-139746.pdf>

TestAmerica Phoenix
4625 E. Cotton Center Blvd.
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax

Chain of Custody Record
Sample Origin: State of Nevada

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: K. Everett	Site Contact: K. Everett	Date: 02/29/16	COC No:
Logistical Solutions, LLC	Tel/Fax: 702-340-2594	Lab Contact:	Carrier:	1 of 1 COCs
4480 W. Ann Rd, #5-237	**Analysis Turnaround Time**			[1] Sampler
City/State/Zip N. Las Vegas, NV 89031	☑ CALENDAR DAYS ☐ WORKING DAYS			[1] Refer to note below.
Phone 702-596-2021	TAT if different from Below			**For Lab Use Only:**
FAX 702-974-1776	☐ 2 weeks			Walk-in Client:
Project Name: NERT-Storm water Outfall	☐ 1 week			Lab Sampling:
Site: NERT site	☑ 2 days			Job / SDG No.:
PO# MIC161008	☐ 1 day			

See attachment for list of analytes

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
NERT-CS-01	2/26/16	1030	C	Soil	1			Four-Part Composite

440-139746 Chain of Custody

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: _____ Date 2/29/16

Preservation Used: 1= Ice. 2= HCl: 3= H2SO4: 4=HNO3: 5=NaOH: 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:

✓C.S. 1.2 on ice

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Kristy Everett / Kris Everett	Logistical Solutions	2/29/16 12:20	Received by:	TA	2-29-16 1230
Relinquished by:	TA	2-29-16 1600	Received by:		
Relinquished by:			Received in Laboratory by:	TA	3/1/16 9:30

TA 3/1/16 17:00
4.2 TALAS
IR-73 2.0/2.5 0.5 3/3/16
TAT 03/02/16 9:40
TRK-6243 7064 5754

Form No. TAL-0042NV (0813)

Table 4 Analytical Parameters for Soil Sampling for Full Suite of COPCs
Analytical Parameters
Asbestos by EPA Method 600/R-93-116
Cyanide by EPA Method 9012
Dioxins/Furans by EPA Method 8290
Hexavalent chromium by EPA Method 7196A or 7199
Inorganic anions (bromide, chloride, fluoride, nitrate as nitrate, sulfate, nitrite as N, nitrate as N, and orthophosphate as phosphate) by EPA Method 9056
Mercury by EPA Method 7471
Metals (incl. manganese dioxide and iron oxide) by EPA Methods 6010 or 6020
OCPs by EPA Method 8081A
PAHs by EPA Method 8310 or 8270D
PCBs by EPA Method 8082
Perchlorate by EPA Method 314.0 or 6850
pH by EPA Method 9045D
Sulfide by EPA Method 9034
SVOCs (incl. HCB and B(a)P) by EPA Method 8270D
VOCs by EPA Method 8260B

Also include:
Ignitability

Arsenic, chromium, platinum, ~~[illegible]~~
Magnesium, manganese and titanium.

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-95337.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: patty.mata@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 440-139746-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/4/2016	Analysis Requested		Preservation Codes:
City: Earth City	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: NERT Stormwater Outfall	Project #: 44015400			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3050B_2% Pt	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
NERT-CS-01` (440-139746-1)	2/26/16	10:30 Pacific		Solid			X	1	

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Vu Bach	3/2/16 17:00	TAI	FedEx	3/2/16 17:00	
2	Fed Ex			Gil Clark	3-3-16 1040	TASR
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

3/18/2016

Login Sample Receipt Checklist

Client: Logistical Solutions, LLC

Job Number: 440-139746-1

Login Number: 139746
List Number: 1
Creator: Schulze, Julon S

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Logistical Solutions, LLC

Job Number: 440-139746-1

Login Number: 139746
List Number: 2
Creator: Kester, Richard

List Source: TestAmerica Sacramento
List Creation: 03/03/16 10:17 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Logistical Solutions, LLC

Job Number: 440-139746-1

Login Number: 139746
List Number: 3
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 03/03/16 04:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Logistical Solutions, LLC
Project/Site: NERT Stormwater Outfall

TestAmerica Job ID: 440-139746-1

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDF (40-135)							
440-139746-1 - RA	NERT-CS-01	96							

Surrogate Legend

TCDF = 13C-2,3,7,8-TCDF

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
440-139746-1	NERT-CS-01	83		86	84	88	87	100	92
LCS 320-103075/2-A	Lab Control Sample	78	76	79	77	84	77	87	81
LCSD 320-103075/3-A	Lab Control Sample Dup	78	75	77	76	83	76	87	81
MB 320-103075/1-A	Method Blank	78	76	79	77	82	76	87	80

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
440-139746-1	NERT-CS-01	111							
LCS 320-103075/2-A	Lab Control Sample	93							
LCSD 320-103075/3-A	Lab Control Sample Dup	92							
MB 320-103075/1-A	Method Blank	91							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

March 15, 2016

Kris Everett
Logistical Solutions LLC
4780 W. Ann Rd, Suite 5231
Las Vegas, NV 89031

TEL: (702) 340-2594
FAX: (702) 974-1776

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N019043

RE: NERT-Storm Water Outfall, MIC161008

Attention: Kris Everett

Enclosed are the results for sample(s) received on March 10, 2016 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Glen Gesmundo
QA Manager

CLIENT: Logistical Solutions LLC
Project: NERT-Storm Water Outfall, MIC161008
Lab Order: N019043

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Subcontracted Analyses:

EPA 1030 was subcontracted to Enthalpy Analytical.

Asbestos was subcontracted to Forensic Laboratories.

Anions by EPA 9056, Sulfide and Cyanide were subcontracted to Gel Laboratories.

EPA 8290 was subcontracted to PACE Analytical Services,Inc.-Minneapolis,MN.

Platinum was subcontracted to Test America-Earth City,MO.

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019043-001C-MS and N019043-001C-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8081A:

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) N019025-002E-MSD is outside criteria for some analytes possibly due to matrix interference; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Decachlorobiphenyl surrogate recovery was above the laboratory acceptable limit for sample. Reanalysis confirms high recovery caused by matrix effect.

Analytical Comments for EPA 8082:

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES
CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Decachlorobiphenyl Surrogate recovery was below the laboratory acceptable limit MS/MSD.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Aroclor 1260 possibly due to matrix interference; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Decachlorobiphenyl surrogate recovery was above the laboratory acceptable limit for sample. Reanalysis confirms high recovery caused by matrix effect.

Analytical Comments for EPA 8270C:

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD)N019025-006E-MSD is outside criteria for some analytes possibly due to matrix interference ; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8270CSIM:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019043-001B-MS and N019043-001B-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *15-Mar-16*

CLIENT: Logistical Solutions LLC
Project: NERT-Storm Water Outfall, MIC161008
Lab Order: N019043
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N019043-001A	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001B	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001C	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001D	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001E	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001F	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001G	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001H	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001I	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001J	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016
N019043-001K	NERT-SO/NERT Storm Water Outfall Composite-03	Solid	3/9/2016 11:37:00 AM	3/10/2016	3/15/2016

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
			EPA 9045C			
RunID: WETCHEM_160311B	QC Batch: R106369			PrepDate:		Analyst: **LR**
pH	7.6	0.10		pH Units	1	3/11/2016 01:45 PM
Temp. at time of pH Analysis	24	0		°C	1	3/11/2016 01:45 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160310B	QC Batch: 56582			PrepDate:	3/10/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2-Chlorophenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2-Methylphenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
2-Nitroaniline	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
2-Nitrophenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	3/11/2016 12:23 AM
3-Nitroaniline	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	3/11/2016 12:23 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	3/11/2016 12:23 AM
4-Chloroaniline	ND	660		µg/Kg	1	3/11/2016 12:23 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	3/11/2016 12:23 AM
4-Methylphenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
4-Nitroaniline	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
4-Nitrophenol	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
Acenaphthene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Acenaphthylene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Anthracene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	3/11/2016 12:23 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160310B QC Batch: 56582 PrepDate: 3/10/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzo(a)pyrene	ND	200		µg/Kg	1	3/11/2016 12:23 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Benzoic acid	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
Benzyl alcohol	ND	660		µg/Kg	1	3/11/2016 12:23 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Bis(2-ethylhexyl)phthalate	410	330		µg/Kg	1	3/11/2016 12:23 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Chrysene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	3/11/2016 12:23 AM
Dibenzofuran	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Diethylphthalate	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Dimethylphthalate	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Fluoranthene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Fluorene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Hexachlorobenzene	3100	330		µg/Kg	1	3/11/2016 12:23 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	3/11/2016 12:23 AM
Hexachloroethane	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Isophorone	ND	330		µg/Kg	1	3/11/2016 12:23 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	3/11/2016 12:23 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Naphthalene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Nitrobenzene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Pentachlorophenol	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
Phenanthrene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Phenol	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Pyrene	ND	330		µg/Kg	1	3/11/2016 12:23 AM
Pyridine	ND	1700		µg/Kg	1	3/11/2016 12:23 AM
Surr: 1,2-Dichlorobenzene-d4	67.9	21-120		%REC	1	3/11/2016 12:23 AM
Surr: 2,4,6-Tribromophenol	85.3	25-129		%REC	1	3/11/2016 12:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160310B	QC Batch: 56582			PrepDate:	3/10/2016	Analyst: **MDM**
Surr: 2-Chlorophenol-d4	68.3	24-120		%REC	1	3/11/2016 12:23 AM
Surr: 2-Fluorobiphenyl	75.8	33-120		%REC	1	3/11/2016 12:23 AM
Surr: 2-Fluorophenol	63.8	21-120		%REC	1	3/11/2016 12:23 AM
Surr: 4-Terphenyl-d14	77.0	37-135		%REC	1	3/11/2016 12:23 AM
Surr: Nitrobenzene-d5	72.1	26-120		%REC	1	3/11/2016 12:23 AM
Surr: Phenol-d5	64.9	25-120		%REC	1	3/11/2016 12:23 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160314A	QC Batch: 56611			PrepDate:	3/14/2016	Analyst: **MDM**
1-Methylnaphthalene	9.5	5.0		µg/Kg	1	3/14/2016 05:37 PM
2-Methylnaphthalene	25	5.0		µg/Kg	1	3/14/2016 05:37 PM
Acenaphthene	ND	5.0		µg/Kg	1	3/14/2016 05:37 PM
Acenaphthylene	12	5.0		µg/Kg	1	3/14/2016 05:37 PM
Anthracene	22	5.0		µg/Kg	1	3/14/2016 05:37 PM
Benzo(a)anthracene	110	5.0		µg/Kg	1	3/14/2016 05:37 PM
Benzo(a)pyrene	130	5.0		µg/Kg	1	3/14/2016 05:37 PM
Benzo(b)fluoranthene	340	5.0		µg/Kg	1	3/14/2016 05:37 PM
Benzo(g,h,i)perylene	45	5.0		µg/Kg	1	3/14/2016 05:37 PM
Benzo(k)fluoranthene	82	5.0		µg/Kg	1	3/14/2016 05:37 PM
Chrysene	240	5.0		µg/Kg	1	3/14/2016 05:37 PM
Dibenz(a,h)anthracene	21	5.0		µg/Kg	1	3/14/2016 05:37 PM
Fluoranthene	220	5.0		µg/Kg	1	3/14/2016 05:37 PM
Fluorene	6.5	5.0		µg/Kg	1	3/14/2016 05:37 PM
Indeno(1,2,3-cd)pyrene	47	5.0		µg/Kg	1	3/14/2016 05:37 PM
Naphthalene	32	5.0		µg/Kg	1	3/14/2016 05:37 PM
Phenanthrene	210	5.0		µg/Kg	1	3/14/2016 05:37 PM
Pyrene	220	5.0		µg/Kg	1	3/14/2016 05:37 PM
Surr: 1,2-Dichlorobenzene-d4	62.0	20-112		%REC	1	3/14/2016 05:37 PM
Surr: 2-Fluorobiphenyl	73.0	29-118		%REC	1	3/14/2016 05:37 PM
Surr: 4-Terphenyl-d14	77.0	23-136		%REC	1	3/14/2016 05:37 PM
Surr: Nitrobenzene-d5	91.0	28-122		%REC	1	3/14/2016 05:37 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160311A	QC Batch: R16VS042			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-16*

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160311A QC Batch: R16VS042 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/12/2016 01:19 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
2-Butanone	ND	50		µg/Kg	1	3/12/2016 01:19 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Benzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Bromobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Bromoform	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Bromomethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Chlorobenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Chloroethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Chloroform	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Chloromethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS8_160311A	QC Batch: R16VS042			PrepDate:		Analyst: **QBM**
Dibromochloromethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Dibromomethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Ethylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Freon-113	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
m,p-Xylene	ND	10		µg/Kg	1	3/12/2016 01:19 AM
Methylene chloride	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
MTBE	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Naphthalene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
o-Xylene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Styrene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Toluene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Trichloroethene	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Vinyl chloride	ND	5.0		µg/Kg	1	3/12/2016 01:19 AM
Xylenes, Total	ND	15		µg/Kg	1	3/12/2016 01:19 AM
Surr: 1,2-Dichloroethane-d4	123	75-140		%REC	1	3/12/2016 01:19 AM
Surr: 4-Bromofluorobenzene	96.6	73-128		%REC	1	3/12/2016 01:19 AM
Surr: Dibromofluoromethane	119	78-133		%REC	1	3/12/2016 01:19 AM
Surr: Toluene-d8	107	80-120		%REC	1	3/12/2016 01:19 AM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160311A	QC Batch: 56594			PrepDate: 3/11/2016		Analyst: **MDM**
DRO	110	10		mg/Kg	1	3/11/2016 06:05 PM
ORO	180	10		mg/Kg	1	3/11/2016 06:05 PM
Surr: p-Terphenyl	103	38-152		%REC	1	3/11/2016 06:05 PM

Qualifiers:

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S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3546 **EPA 8081A**

RunID: GC8_160310B QC Batch: 56580 PrepDate: 3/10/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
4,4´-DDD	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
4,4´-DDE	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
4,4´-DDT	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Aldrin	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
alpha-BHC	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
beta-BHC	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Chlordane	ND	8.5		µg/Kg	1	3/14/2016 02:40 AM
delta-BHC	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Dieldrin	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Endosulfan I	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Endosulfan II	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Endrin	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
Endrin ketone	ND	2.0		µg/Kg	1	3/14/2016 02:40 AM
gamma-BHC	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Heptachlor	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	3/14/2016 02:40 AM
Methoxychlor	ND	8.5		µg/Kg	1	3/14/2016 02:40 AM
Toxaphene	ND	85		µg/Kg	1	3/14/2016 02:40 AM
Surr: Tetrachloro-m-xylene	69.6	26-120		%REC	1	3/14/2016 02:40 AM
Surr: Decachlorobiphenyl	4010	31-131	S	%REC	10	3/14/2016 03:03 AM

PCBS BY GC/ECD

EPA 3546 **EPA 8082**

RunID: GC7_160314B QC Batch: 56580 PrepDate: 3/10/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aroclor 1016	ND	16		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1221	ND	33		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1232	ND	16		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1242	ND	16		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1248	ND	16		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1254	430	16		µg/Kg	1	3/14/2016 05:32 PM
Aroclor 1260	430	16		µg/Kg	1	3/14/2016 05:32 PM
Surr: Decachlorobiphenyl	4270	34-147	SE	%REC	1	3/14/2016 05:32 PM
Surr: Tetrachloro-m-xylene	85.1	30-118		%REC	1	3/14/2016 05:32 PM

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Logistical Solutions LLC
Lab Order: N019043
Project: NERT-Storm Water Outfall, MIC161008
Lab ID: N019043-001

Client Sample ID: NERT-SO/NERT Storm Water Outfal
Collection Date: 3/9/2016 11:37:00 AM
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160311A	QC Batch: E16VS038			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	3/11/2016 12:49 PM
Surr: Chlorobenzene - d5	103	46-154		%REC	1	3/11/2016 12:49 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160314A	QC Batch: 56600			PrepDate:	3/11/2016	Analyst: **JJS**
Hexavalent Chromium	34	1.0		mg/Kg	5	3/14/2016 04:21 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160315A	QC Batch: R106417			PrepDate:		Analyst: **RB**
Perchlorate	290	20		µg/Kg	1	3/15/2016 12:58 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160314A	QC Batch: 56613			PrepDate:	3/14/2016	Analyst: **AM**
Mercury	0.88	0.099		mg/Kg	1	3/14/2016 03:07 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160315A	QC Batch: 56612			PrepDate:	3/14/2016	Analyst: **CEI**
Arsenic	13	1.0		mg/Kg	1	3/15/2016 10:39 AM
Barium	5600	50		mg/Kg	50	3/15/2016 11:24 AM
Cadmium	1.3	1.0		mg/Kg	1	3/15/2016 10:39 AM
Chromium	170	1.0		mg/Kg	1	3/15/2016 10:39 AM
Lead	260	1.0		mg/Kg	1	3/15/2016 10:39 AM
Magnesium	4700	10		mg/Kg	1	3/15/2016 10:39 AM
Manganese	4300	10		mg/Kg	1	3/15/2016 10:39 AM
Selenium	7.0	1.0		mg/Kg	1	3/15/2016 10:39 AM
Silver	ND	1.0		mg/Kg	1	3/15/2016 10:39 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160315A	QC Batch: 56612			PrepDate:	3/14/2016	Analyst: **CEI**
Titanium	3500	750		mg/Kg	50	3/15/2016 11:24 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **MB-R106417**	SampType: **MBLK**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106417**
Client ID: **PBS**	Batch ID: **R106417**	TestNo: **EPA 314(M)**		Analysis Date: **3/15/2016**	SeqNo: **2265839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	ND	20									

Sample ID: **LCS-R106417**	SampType: **LCS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106417**
Client ID: **LCSS**	Batch ID: **R106417**	TestNo: **EPA 314(M)**		Analysis Date: **3/15/2016**	SeqNo: **2265840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	223.196	20	250.0	0	89.3	85	115				

Sample ID: **N019043-001DMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106417**
Client ID: **ZZZZZZ**	Batch ID: **R106417**	TestNo: **EPA 314(M)**		Analysis Date: **3/15/2016**	SeqNo: **2265843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	403.366	20	100.0	291.9	112	80	120				

Sample ID: **N019043-001DMSD**	SampType: **MSD**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106417**
Client ID: **ZZZZZZ**	Batch ID: **R106417**	TestNo: **EPA 314(M)**		Analysis Date: **3/15/2016**	SeqNo: **2265844**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	410.192	20	100.0	291.9	118	80	120	403.4	1.68	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-56612**	SampType: **MBLK**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **PBS**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Barium	0.047	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	ND	1.0									
Selenium	ND	1.0									
Silver	0.083	1.0									

Sample ID: **LCS-56612**	SampType: **LCS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **LCSS**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.051	1.0	25.00	0	84.2	80	120				
Barium	22.030	1.0	25.00	0	88.1	80	120				
Cadmium	21.006	1.0	25.00	0	84.0	80	120				
Chromium	23.156	1.0	25.00	0	92.6	80	120				
Lead	22.030	1.0	25.00	0	88.1	80	120				
Selenium	20.610	1.0	25.00	0	82.4	80	120				
Silver	22.347	1.0	25.00	0	89.4	80	120				

Sample ID: **N019043-001C-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.225	1.0	25.10	12.74	25.8	75	125				S
Cadmium	19.024	1.0	25.10	1.255	70.8	75	125				S
Chromium	257.564	1.0	25.10	167.5	359	75	125				S
Lead	282.393	1.0	25.10	255.5	107	75	125				
Selenium	22.373	1.0	25.10	7.024	61.1	75	125				S
Silver	15.549	1.0	25.10	0	61.9	75	125				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N019043-001C-MSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	27.887	1.0	25.01	12.74	60.5	75	125	19.23	36.8	20	SR
Cadmium	17.641	1.0	25.01	1.255	65.5	75	125	19.02	7.55	20	S
Chromium	190.686	1.0	25.01	167.5	92.9	75	125	257.6	29.8	20	R
Lead	344.245	1.0	25.01	255.5	355	75	125	282.4	19.7	20	S
Selenium	20.560	1.0	25.01	7.024	54.1	75	125	22.37	8.45	20	S
Silver	18.606	1.0	25.01	0	74.4	75	125	15.55	17.9	20	S

Sample ID: **N019043-001C-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	8441.607	50	25.10	5593	11400	75	125				S

Sample ID: **N019043-001C-MSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	7186.217	50	25.01	5593	6370	75	125	8442	16.1	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S1

Sample ID: **MB-56612**	SampType: **MBLK**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **PBS**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	0.031	15									

Sample ID: **LCS-56612**	SampType: **LCS**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **LCSS**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	22.371	15	25.00	0	89.5	80	120				

Sample ID: **N019043-001C-MS**	SampType: **MS**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	6284.728	750	25.10	3503	11100	75	125				S

Sample ID: **N019043-001C-MSD**	SampType: **MSD**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106412**
Client ID: **ZZZZZZ**	Batch ID: **56612**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **3/15/2016**	SeqNo: **2265606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	3901.300	750	25.01	3503	1590	75	125	6285	46.8	30	SR

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **MB-56600**	SampType: **MBLK**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106413**
Client ID: **PBS**	Batch ID: **56600**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **3/14/2016**	SeqNo: **2265627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS1-56600**	SampType: **LCS**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106413**
Client ID: **LCSS**	Batch ID: **56600**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **3/14/2016**	SeqNo: **2265628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.619	0.20	4.000	0	90.5	80	120				

Sample ID: **N019043-001D-MS_I**	SampType: **MS**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106413**
Client ID: **ZZZZZZ**	Batch ID: **56600**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **3/14/2016**	SeqNo: **2265639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	742.493	10	705.5	34.11	100	75	125				

Sample ID: **N019043-001D-MS**	SampType: **MS**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106413**
Client ID: **ZZZZZZ**	Batch ID: **56600**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **3/14/2016**	SeqNo: **2265643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	55.230	1.0	3.992	34.11	529	75	125				S

Sample ID: **N019043-001D-MSD**	SampType: **MSD**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106413**
Client ID: **ZZZZZZ**	Batch ID: **56600**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **3/14/2016**	SeqNo: **2265644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	45.868	1.0	4.003	34.11	294	75	125	55.23	18.5	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-56613**	SampType: **MBLK**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106394**
Client ID: **PBS**	Batch ID: **56613**	TestNo: **EPA 7471A**		Analysis Date: **3/14/2016**	SeqNo: **2264984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-56613**	SampType: **LCS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106394**
Client ID: **LCSS**	Batch ID: **56613**	TestNo: **EPA 7471A**		Analysis Date: **3/14/2016**	SeqNo: **2264985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.478	0.10	0.4167	0	115	80	120				

Sample ID: **N019043-001C-MS**	SampType: **MS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106394**
Client ID: **ZZZZZZ**	Batch ID: **56613**	TestNo: **EPA 7471A**		Analysis Date: **3/14/2016**	SeqNo: **2264986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.064	0.099	0.4139	0.8816	44.0	75	125				S

Sample ID: **N019043-001C-MSD**	SampType: **MSD**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **3/14/2016**	RunNo: **106394**
Client ID: **ZZZZZZ**	Batch ID: **56613**	TestNo: **EPA 7471A**		Analysis Date: **3/14/2016**	SeqNo: **2264987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.372	0.099	0.4119	0.8816	119	75	125	1.064	25.3	20	R

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DMS_M

Sample ID: **LCS-56594**	SampType: **LCS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106376**
Client ID: **LCSS**	Batch ID: **56594**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **3/11/2016**	SeqNo: **2263486**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	931.142	10	1000	0	93.1	67	119				
Surr: p-Terphenyl	77.343		80.00		96.7	38	152				

Sample ID: **MB-56594**	SampType: **MBLK**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106376**
Client ID: **PBS**	Batch ID: **56594**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **3/11/2016**	SeqNo: **2263487**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	9.506	10									
ORO	3.764	10									
Surr: p-Terphenyl	78.581		80.00		98.2	38	152				

Sample ID: **N019023-001A-MS**	SampType: **MS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106376**
Client ID: **ZZZZZZ**	Batch ID: **56594**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **3/11/2016**	SeqNo: **2263506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	897.078	9.9	990.1	12.22	89.4	46	143				
Surr: p-Terphenyl	74.814		79.21		94.5	38	152				

Sample ID: **N019023-001A-MSD**	SampType: **MSD**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **3/11/2016**	RunNo: **106376**
Client ID: **ZZZZZZ**	Batch ID: **56594**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **3/11/2016**	SeqNo: **2263507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	861.147	9.9	992.1	12.22	85.6	46	143	897.1	4.09	20	
Surr: p-Terphenyl	70.612		79.37		89.0	38	152		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E160311LCS**	SampType: **LCS**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106388**
Client ID: **LCSS**	Batch ID: **E16VS038**	TestNo: **EPA 8015B**		Analysis Date: **3/11/2016**	SeqNo: **2264016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.414	1.0	5.000	0	108	70	137				
Surr: Chlorobenzene - d5	116.401		100.0		116	46	154				

Sample ID: **E160311LCSD**	SampType: **LCSD**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106388**
Client ID: **LCSS02**	Batch ID: **E16VS038**	TestNo: **EPA 8015B**		Analysis Date: **3/11/2016**	SeqNo: **2264017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.408	1.0	5.000	0	108	70	137	5.414	0.111	20	
Surr: Chlorobenzene - d5	116.019		100.0		116	46	154		0		

Sample ID: **E160311MB1**	SampType: **MBLK**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106388**
Client ID: **PBS**	Batch ID: **E16VS038**	TestNo: **EPA 8015B**		Analysis Date: **3/11/2016**	SeqNo: **2264018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.056	1.0									
Surr: Chlorobenzene - d5	114.292		100.0		114	46	154				

Sample ID: **N019058-003AMS**	SampType: **MS**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106388**
Client ID: **ZZZZZZ**	Batch ID: **E16VS038**	TestNo: **EPA 8015B**		Analysis Date: **3/12/2016**	SeqNo: **2264024**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.205	1.0	5.000	0.05000	83.1	46	155				
Surr: Chlorobenzene - d5	99.530		100.0		99.5	46	154				

Sample ID: **N019058-003AMSD**	SampType: **MSD**	TestCode: **8015GAS_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106388**
Client ID: **ZZZZZZ**	Batch ID: **E16VS038**	TestNo: **EPA 8015B**		Analysis Date: **3/12/2016**	SeqNo: **2264025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.143	1.0	5.000	0.05000	81.9	46	155	4.205	1.49	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **N019058-003AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106388**
Client ID: **ZZZZZZ** Batch ID: **E16VS038** TestNo: **EPA 8015B** Analysis Date: **3/12/2016** SeqNo: **2264025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	98.043		100.0		98.0	46	154		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **LCS-56580_OCP** SampType: **LCS** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106358**
Client ID: **LCSS** Batch ID: **56580** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	17.092	2.0	16.67	0	103	52	139				
4,4´-DDE	17.075	2.0	16.67	0	102	51	132				
4,4´-DDT	18.937	2.0	16.67	0	114	57	154				
Aldrin	15.312	1.0	16.67	0	91.9	35	125				
alpha-BHC	15.368	1.0	16.67	0	92.2	34	132				
alpha-Chlordane	15.695	1.0	16.67	0	94.2	51	129				
beta-BHC	14.312	1.0	16.67	0	85.9	48	120				
delta-BHC	16.667	1.0	16.67	0	100	43	136				
Dieldrin	16.163	2.0	16.67	0	97.0	52	135				
Endosulfan I	15.712	1.0	16.67	0	94.3	50	120				
Endosulfan II	18.232	2.0	16.67	0	109	58	135				
Endosulfan sulfate	18.920	2.0	16.67	0	113	58	136				
Endrin	19.122	2.0	16.67	0	115	29	157				
Endrin aldehyde	18.077	2.0	16.67	0	108	56	123				
Endrin ketone	19.997	2.0	16.67	0	120	47	150				
gamma-BHC	15.283	1.0	16.67	0	91.7	40	125				
gamma-Chlordane	15.862	1.0	16.67	0	95.2	53	126				
Heptachlor	16.683	1.0	16.67	0	100	37	129				
Heptachlor epoxide	15.545	1.0	16.67	0	93.3	50	123				
Methoxychlor	24.622	8.5	16.67	0	148	55	165				
Surr: Tetrachloro-m-xylene	12.153		16.67		72.9	26	120				
Surr: Decachlorobiphenyl	15.665		16.67		94.0	31	131				

Sample ID: **MB-56580** SampType: **MBLK** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106358**
Client ID: **PBS** Batch ID: **56580** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **MB-56580**	SampType: **MBLK**	TestCode: **8081SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106358**
Client ID: **PBS**	Batch ID: **56580**	TestNo: **EPA 8081A**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2262319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	7.032		16.67		42.2	26	120				
Surr: Decachlorobiphenyl	9.338		16.67		56.0	31	131				

Sample ID: **N019025-002E-MS**	SampType: **MS**	TestCode: **8081SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106358**
Client ID: **ZZZZZZ**	Batch ID: **56580**	TestNo: **EPA 8081A**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2262329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	14.599	2.0	16.78	0	87.0	19	132				
4,4´-DDE	13.901	2.0	16.78	0.4553	80.1	28	107				
4,4´-DDT	6.035	2.0	16.78	0.7505	31.5	12	129				
Aldrin	12.886	1.0	16.78	0	76.8	28	105				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **N019025-002E-MS** SampType: **MS** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106358**
Client ID: **ZZZZZZ** Batch ID: **56580** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	16.341	1.0	16.78	0	97.4	35	102				
alpha-Chlordane	15.045	1.0	16.78	0.9106	84.2	23	125				
beta-BHC	13.839	1.0	16.78	0	82.5	16	124				
delta-BHC	15.708	1.0	16.78	0	93.6	20	127				
Dieldrin	13.331	2.0	16.78	0	79.4	24	106				
Endosulfan I	12.839	1.0	16.78	0	76.5	20	126				
Endosulfan II	13.379	2.0	16.78	0	79.7	20	121				
Endosulfan sulfate	14.718	2.0	16.78	0	87.7	24	133				
Endrin	12.903	2.0	16.78	0	76.9	21	117				
Endrin aldehyde	14.661	2.0	16.78	0	87.4	25	118				
Endrin ketone	14.322	2.0	16.78	0	85.3	32	105				
gamma-BHC	15.814	1.0	16.78	0	94.2	24	115				
gamma-Chlordane	16.393	1.0	16.78	1.519	88.6	28	109				
Heptachlor	12.007	1.0	16.78	0	71.5	27	118				
Heptachlor epoxide	13.547	1.0	16.78	0	80.7	13	137				
Methoxychlor	12.200	8.6	16.78	0	72.7	55	152				
Surr: Tetrachloro-m-xylene	12.872		16.78		76.7	26	120				
Surr: Decachlorobiphenyl	12.383		16.78		73.8	31	131				

Sample ID: **N019025-002E-MSD** SampType: **MSD** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106358**
Client ID: **ZZZZZZ** Batch ID: **56580** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	13.211	2.0	16.74	0	78.9	19	132	14.60	9.98	20	
4,4´-DDE	12.393	2.0	16.74	0.4553	71.3	28	107	13.90	11.5	20	
4,4´-DDT	6.109	2.0	16.74	0.7505	32.0	12	129	6.035	1.22	20	
Aldrin	12.047	1.0	16.74	0	72.0	28	105	12.89	6.73	20	
alpha-BHC	14.086	1.0	16.74	0	84.2	35	102	16.34	14.8	20	
alpha-Chlordane	11.041	1.0	16.74	0.9106	60.5	23	125	15.05	30.7	20	R
beta-BHC	12.887	1.0	16.74	0	77.0	16	124	13.84	7.13	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **N019025-002E-MSD** SampType: **MSD** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106358**
Client ID: **ZZZZZZ** Batch ID: **56580** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
delta-BHC	13.250	1.0	16.74	0	79.2	20	127	15.71	17.0	20	
Dieldrin	11.668	2.0	16.74	0	69.7	24	106	13.33	13.3	20	
Endosulfan I	10.489	1.0	16.74	0	62.7	20	126	12.84	20.2	20	R
Endosulfan II	12.050	2.0	16.74	0	72.0	20	121	13.38	10.5	20	
Endosulfan sulfate	11.032	2.0	16.74	0	65.9	24	133	14.72	28.6	20	R
Endrin	11.523	2.0	16.74	0	68.8	21	117	12.90	11.3	20	
Endrin aldehyde	10.755	2.0	16.74	0	64.3	25	118	14.66	30.7	20	R
Endrin ketone	11.600	2.0	16.74	0	69.3	32	105	14.32	21.0	20	R
gamma-BHC	14.009	1.0	16.74	0	83.7	24	115	15.81	12.1	20	
gamma-Chlordane	11.503	1.0	16.74	1.519	59.6	28	109	16.39	35.1	20	R
Heptachlor	10.243	1.0	16.74	0	61.2	27	118	12.01	15.9	20	
Heptachlor epoxide	11.919	1.0	16.74	0	71.2	13	137	13.55	12.8	20	
Methoxychlor	5.380	8.5	16.74	0	32.1	55	152	12.20	0	20	S
Surr: Tetrachloro-m-xylene	11.273		16.74		67.4	26	120		0		
Surr: Decachlorobiphenyl	10.994		16.74		65.7	31	131		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **LCS-56580_PCB**	SampType: **LCS**	TestCode: **8082SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106357**
Client ID: **LCSS**	Batch ID: **56580**	TestNo: **EPA 8082**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2262036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	114.179	16	166.7	0	68.5	58	128				
Aroclor 1260	120.007	16	166.7	0	72.0	60	136				
Surr: Decachlorobiphenyl	9.211		16.67		55.3	34	147				
Surr: Tetrachloro-m-xylene	10.454		16.67		62.7	30	118				

Sample ID: **MB-56580**	SampType: **MBLK**	TestCode: **8082SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106357**
Client ID: **PBS**	Batch ID: **56580**	TestNo: **EPA 8082**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2262037**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	8.764		16.67		52.6	34	147				
Surr: Tetrachloro-m-xylene	9.537		16.67		57.2	30	118				

Sample ID: **N019025-001E-MS**	SampType: **MS**	TestCode: **8082SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106357**
Client ID: **ZZZZZZ**	Batch ID: **56580**	TestNo: **EPA 8082**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2262045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	76.144	16	166.1	0	45.8	15	143				
Aroclor 1260	99.967	16	166.1	0	60.2	18	136				
Surr: Decachlorobiphenyl	4.339		16.61		26.1	34	147				S
Surr: Tetrachloro-m-xylene	6.768		16.61		40.7	30	118				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **N019025-001E-MSD** SampType: **MSD** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106357**
Client ID: **ZZZZZZ** Batch ID: **56580** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262046**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	75.934	17	167.2	0	45.4	15	143	76.14	0.276	20	
Aroclor 1260	77.723	17	167.2	0	46.5	18	136	99.97	25.0	20	R
Surr: Decachlorobiphenyl	5.459		16.73		32.6	34	147		0		S
Surr: Tetrachloro-m-xylene	6.324		16.73		37.8	30	118		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **LCSS** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/11/2016** SeqNo: **2264110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	40.120	5.0	40.00	0	100	80	122				
1,1,1-Trichloroethane	38.960	5.0	40.00	0	97.4	78	124				
1,1,2,2-Tetrachloroethane	41.280	5.0	40.00	0	103	75	124				
1,1,2-Trichloroethane	40.270	5.0	40.00	0	101	80	120				
1,1-Dichloroethane	39.510	5.0	40.00	0	98.8	77	124				
1,1-Dichloroethene	40.740	5.0	40.00	0	102	71	133				
1,1-Dichloropropene	40.660	5.0	40.00	0	102	80	120				
1,2,3-Trichlorobenzene	41.400	5.0	40.00	0	104	80	126				
1,2,3-Trichloropropane	41.300	5.0	40.00	0	103	78	120				
1,2,4-Trichlorobenzene	40.880	5.0	40.00	0	102	77	129				
1,2,4-Trimethylbenzene	43.060	5.0	40.00	0	108	80	120				
1,2-Dibromo-3-chloropropane	38.840	10	40.00	0	97.1	65	134				
1,2-Dibromoethane	41.310	5.0	40.00	0	103	80	120				
1,2-Dichlorobenzene	40.160	5.0	40.00	0	100	80	120				
1,2-Dichloroethane	40.810	5.0	40.00	0	102	80	120				
1,2-Dichloropropane	39.550	5.0	40.00	0	98.9	80	120				
1,3,5-Trimethylbenzene	43.570	5.0	40.00	0	109	80	120				
1,3-Dichlorobenzene	40.210	5.0	40.00	0	101	80	120				
1,3-Dichloropropane	41.800	5.0	40.00	0	104	80	120				
1,4-Dichlorobenzene	39.160	5.0	40.00	0	97.9	80	120				
2,2-Dichloropropane	37.910	5.0	40.00	0	94.8	73	126				
2-Butanone	394.630	50	400.0	0	98.7	40	160				
2-Chlorotoluene	42.410	5.0	40.00	0	106	80	120				
4-Chlorotoluene	41.720	5.0	40.00	0	104	80	120				
4-Isopropyltoluene	41.250	5.0	40.00	0	103	79	122				
Benzene	40.280	5.0	40.00	0	101	80	120				
Bromobenzene	41.260	5.0	40.00	0	103	80	120				
Bromodichloromethane	38.810	5.0	40.00	0	97.0	80	120				
Bromoform	40.800	5.0	40.00	0	102	68	141				
Bromomethane	40.780	5.0	40.00	0	102	52	153				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **LCSS** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/11/2016** SeqNo: **2264110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	37.690	5.0	40.00	0	94.2	72	132				
Chlorobenzene	39.350	5.0	40.00	0	98.4	80	120				
Chloroethane	40.850	5.0	40.00	0	102	71	135				
Chloroform	38.270	5.0	40.00	0	95.7	80	121				
Chloromethane	39.690	5.0	40.00	0	99.2	58	134				
cis-1,2-Dichloroethene	39.230	5.0	40.00	0	98.1	80	120				
cis-1,3-Dichloropropene	40.080	5.0	40.00	0	100	80	120				
Dibromochloromethane	40.390	5.0	40.00	0	101	80	126				
Dibromomethane	39.770	5.0	40.00	0	99.4	80	120				
Dichlorodifluoromethane	38.620	5.0	40.00	0	96.6	67	140				
Ethylbenzene	39.740	5.0	40.00	0	99.4	80	120				
Freon-113	40.180	5.0	40.00	0	100	72	136				
Hexachlorobutadiene	37.670	5.0	40.00	0	94.2	76	124				
Isopropylbenzene	41.190	5.0	40.00	0	103	80	120				
m,p-Xylene	82.400	10	80.00	0	103	80	120				
Methylene chloride	41.780	5.0	40.00	0	104	61	138				
MTBE	40.720	5.0	40.00	0	102	73	127				
n-Butylbenzene	39.880	5.0	40.00	0	99.7	79	124				
n-Propylbenzene	41.330	5.0	40.00	0	103	80	120				
Naphthalene	38.370	5.0	40.00	0	95.9	67	133				
o-Xylene	40.780	5.0	40.00	0	102	80	120				
sec-Butylbenzene	42.070	5.0	40.00	0	105	80	120				
Styrene	39.900	5.0	40.00	0	99.8	80	120				
tert-Butylbenzene	42.770	5.0	40.00	0	107	80	120				
Tetrachloroethene	38.840	5.0	40.00	0	97.1	77	123				
Toluene	41.650	5.0	40.00	0	104	80	120				
trans-1,2-Dichloroethene	40.730	5.0	40.00	0	102	78	126				
Trichloroethene	39.470	5.0	40.00	0	98.7	80	121				
Trichlorofluoromethane	38.320	5.0	40.00	0	95.8	75	137				
Vinyl chloride	39.770	5.0	40.00	0	99.4	75	125				

Qualifiers:

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Calculations are based on raw values

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311LCS**	SampType: **LCS**	TestCode: **8260SOIL**	Units: **µg/Kg**	Prep Date:	RunNo: **106390**
Client ID: **LCSS**	Batch ID: **R16VS042**	TestNo: **EPA 8260B**		Analysis Date: **3/11/2016**	SeqNo: **2264110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	123.180	15	120.0	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	51.650		50.00		103	75	140				
Surr: 4-Bromofluorobenzene	53.290		50.00		107	73	128				
Surr: Dibromofluoromethane	50.400		50.00		101	78	133				
Surr: Toluene-d8	52.640		50.00		105	80	120				

Sample ID: **R160311LCSD**	SampType: **LCSD**	TestCode: **8260SOIL**	Units: **µg/Kg**	Prep Date:	RunNo: **106390**
Client ID: **LCSS02**	Batch ID: **R16VS042**	TestNo: **EPA 8260B**		Analysis Date: **3/11/2016**	SeqNo: **2264111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	38.730	5.0	40.00	0	96.8	80	122	40.12	3.53	20	
1,1,1-Trichloroethane	37.830	5.0	40.00	0	94.6	78	124	38.96	2.94	20	
1,1,2,2-Tetrachloroethane	39.680	5.0	40.00	0	99.2	75	124	41.28	3.95	20	
1,1,2-Trichloroethane	37.250	5.0	40.00	0	93.1	80	120	40.27	7.79	20	
1,1-Dichloroethane	36.560	5.0	40.00	0	91.4	77	124	39.51	7.76	20	
1,1-Dichloroethene	38.920	5.0	40.00	0	97.3	71	133	40.74	4.57	20	
1,1-Dichloropropene	38.990	5.0	40.00	0	97.5	80	120	40.66	4.19	20	
1,2,3-Trichlorobenzene	41.490	5.0	40.00	0	104	80	126	41.40	0.217	20	
1,2,3-Trichloropropane	39.140	5.0	40.00	0	97.9	78	120	41.30	5.37	20	
1,2,4-Trichlorobenzene	40.700	5.0	40.00	0	102	77	129	40.88	0.441	20	
1,2,4-Trimethylbenzene	41.730	5.0	40.00	0	104	80	120	43.06	3.14	20	
1,2-Dibromo-3-chloropropane	41.380	10	40.00	0	103	65	134	38.84	6.33	20	
1,2-Dibromoethane	38.060	5.0	40.00	0	95.2	80	120	41.31	8.19	20	
1,2-Dichlorobenzene	39.490	5.0	40.00	0	98.7	80	120	40.16	1.68	20	
1,2-Dichloroethane	38.830	5.0	40.00	0	97.1	80	120	40.81	4.97	20	
1,2-Dichloropropane	39.180	5.0	40.00	0	98.0	80	120	39.55	0.940	20	
1,3,5-Trimethylbenzene	42.320	5.0	40.00	0	106	80	120	43.57	2.91	20	
1,3-Dichlorobenzene	39.180	5.0	40.00	0	98.0	80	120	40.21	2.59	20	
1,3-Dichloropropane	41.310	5.0	40.00	0	103	80	120	41.80	1.18	20	
1,4-Dichlorobenzene	38.610	5.0	40.00	0	96.5	80	120	39.16	1.41	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **LCSS02** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/11/2016** SeqNo: **2264111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	37.310	5.0	40.00	0	93.3	73	126	37.91	1.60	20	
2-Butanone	340.700	50	400.0	0	85.2	40	160	394.6	14.7	20	
2-Chlorotoluene	40.480	5.0	40.00	0	101	80	120	42.41	4.66	20	
4-Chlorotoluene	41.490	5.0	40.00	0	104	80	120	41.72	0.553	20	
4-Isopropyltoluene	40.500	5.0	40.00	0	101	79	122	41.25	1.83	20	
Benzene	39.190	5.0	40.00	0	98.0	80	120	40.28	2.74	20	
Bromobenzene	39.360	5.0	40.00	0	98.4	80	120	41.26	4.71	20	
Bromodichloromethane	38.610	5.0	40.00	0	96.5	80	120	38.81	0.517	20	
Bromoform	40.480	5.0	40.00	0	101	68	141	40.80	0.787	20	
Bromomethane	39.200	5.0	40.00	0	98.0	52	153	40.78	3.95	20	
Carbon tetrachloride	37.530	5.0	40.00	0	93.8	72	132	37.69	0.425	20	
Chlorobenzene	38.630	5.0	40.00	0	96.6	80	120	39.35	1.85	20	
Chloroethane	37.090	5.0	40.00	0	92.7	71	135	40.85	9.65	20	
Chloroform	37.880	5.0	40.00	0	94.7	80	121	38.27	1.02	20	
Chloromethane	37.960	5.0	40.00	0	94.9	58	134	39.69	4.46	20	
cis-1,2-Dichloroethene	38.760	5.0	40.00	0	96.9	80	120	39.23	1.21	20	
cis-1,3-Dichloropropene	36.890	5.0	40.00	0	92.2	80	120	40.08	8.29	20	
Dibromochloromethane	39.800	5.0	40.00	0	99.5	80	126	40.39	1.47	20	
Dibromomethane	39.110	5.0	40.00	0	97.8	80	120	39.77	1.67	20	
Dichlorodifluoromethane	33.800	5.0	40.00	0	84.5	67	140	38.62	13.3	20	
Ethylbenzene	39.330	5.0	40.00	0	98.3	80	120	39.74	1.04	20	
Freon-113	36.060	5.0	40.00	0	90.2	72	136	40.18	10.8	20	
Hexachlorobutadiene	38.330	5.0	40.00	0	95.8	76	124	37.67	1.74	20	
Isopropylbenzene	41.030	5.0	40.00	0	103	80	120	41.19	0.389	20	
m,p-Xylene	80.790	10	80.00	0	101	80	120	82.40	1.97	20	
Methylene chloride	38.690	5.0	40.00	0	96.7	61	138	41.78	7.68	20	
MTBE	37.170	5.0	40.00	0	92.9	73	127	40.72	9.12	20	
n-Butylbenzene	39.150	5.0	40.00	0	97.9	79	124	39.88	1.85	20	
n-Propylbenzene	40.480	5.0	40.00	0	101	80	120	41.33	2.08	20	
Naphthalene	38.040	5.0	40.00	0	95.1	67	133	38.37	0.864	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **LCSS02** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/11/2016** SeqNo: **2264111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	40.220	5.0	40.00	0	101	80	120	40.78	1.38	20	
sec-Butylbenzene	41.490	5.0	40.00	0	104	80	120	42.07	1.39	20	
Styrene	39.320	5.0	40.00	0	98.3	80	120	39.90	1.46	20	
tert-Butylbenzene	41.420	5.0	40.00	0	104	80	120	42.77	3.21	20	
Tetrachloroethene	38.140	5.0	40.00	0	95.4	77	123	38.84	1.82	20	
Toluene	38.490	5.0	40.00	0	96.2	80	120	41.65	7.89	20	
trans-1,2-Dichloroethene	37.670	5.0	40.00	0	94.2	78	126	40.73	7.81	20	
Trichloroethene	38.280	5.0	40.00	0	95.7	80	121	39.47	3.06	20	
Trichlorofluoromethane	36.240	5.0	40.00	0	90.6	75	137	38.32	5.58	20	
Vinyl chloride	36.630	5.0	40.00	0	91.6	75	125	39.77	8.22	20	
Xylenes, Total	121.010	15	120.0	0	101	70	130	123.2	1.78	20	
Surr: 1,2-Dichloroethane-d4	48.270		50.00		96.5	75	140		0		
Surr: 4-Bromofluorobenzene	53.430		50.00		107	73	128		0		
Surr: Dibromofluoromethane	50.590		50.00		101	78	133		0		
Surr: Toluene-d8	49.760		50.00		99.5	80	120		0		

Sample ID: **R160311MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **PBS** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/12/2016** SeqNo: **2264114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **PBS** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/12/2016** SeqNo: **2264114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	0.740	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	0.220	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160311MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106390**
Client ID: **PBS** Batch ID: **R16VS042** TestNo: **EPA 8260B** Analysis Date: **3/12/2016** SeqNo: **2264114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0									
Freon-113	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	0.180	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Xylenes, Total	ND	15									
Surr: 1,2-Dichloroethane-d4	60.820		50.00		122	75	140				
Surr: 4-Bromofluorobenzene	49.390		50.00		98.8	73	128				
Surr: Dibromofluoromethane	59.490		50.00		119	78	133				
Surr: Toluene-d8	52.480		50.00		105	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56582** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **LCSS** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3208.000	330	5000	0	64.2	42	120				
1,2-Dichlorobenzene	3146.500	330	5000	0	62.9	39	120				
1,3-Dichlorobenzene	3061.500	330	5000	0	61.2	36	120				
1,4-Dichlorobenzene	3086.500	330	5000	0	61.7	39	120				
2,4,5-Trichlorophenol	3575.000	330	5000	0	71.5	47	120				
2,4,6-Trichlorophenol	3579.500	330	5000	0	71.6	50	120				
2,4-Dichlorophenol	3390.500	1600	5000	0	67.8	47	120				
2,4-Dimethylphenol	3260.000	330	5000	0	65.2	48	120				
2,4-Dinitrophenol	2844.500	1600	5000	0	56.9	15	120				
2,4-Dinitrotoluene	3806.500	330	5000	0	76.1	63	120				
2,6-Dinitrotoluene	3737.500	330	5000	0	74.8	60	120				
2-Chloronaphthalene	3151.000	330	5000	0	63.0	52	120				
2-Chlorophenol	3333.500	330	5000	0	66.7	42	120				
2-Methylnaphthalene	3214.500	330	5000	0	64.3	47	120				
2-Methylphenol	3563.500	330	5000	0	71.3	45	120				
2-Nitroaniline	4083.000	1600	5000	0	81.7	52	125				
2-Nitrophenol	3753.500	330	5000	0	75.1	41	120				
3,3´-Dichlorobenzidine	5449.000	660	10000	0	54.5	37	120				
3-Nitroaniline	3776.500	1600	5000	0	75.5	57	120				
4,6-Dinitro-2-methylphenol	3507.000	1600	5000	0	70.1	21	120				
4-Bromophenyl-phenylether	3675.000	330	5000	0	73.5	60	120				
4-Chloro-3-methylphenol	3671.500	660	5000	0	73.4	55	120				
4-Chloroaniline	2878.500	660	5000	0	57.6	32	120				
4-Chlorophenyl-phenylether	3601.500	330	5000	0	72.0	58	120				
4-Methylphenol	3440.500	330	5000	0	68.8	48	120				
4-Nitroaniline	4116.500	1600	5000	0	82.3	49	120				
4-Nitrophenol	3465.000	1600	5000	0	69.3	39	120				
Acenaphthene	3270.000	330	5000	0	65.4	56	120				
Acenaphthylene	3306.500	330	5000	0	66.1	55	120				
Anthracene	3522.000	330	5000	0	70.4	61	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56582** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **LCSS** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	3560.500	330	5000	0	71.2	62	112				
Benzo(a)pyrene	3362.000	200	5000	0	67.2	58	108				
Benzo(b)fluoranthene	3233.000	330	5000	0	64.7	49	129				
Benzo(g,h,i)perylene	3563.000	330	5000	0	71.3	25	135				
Benzo(k)fluoranthene	3668.500	330	5000	0	73.4	53	120				
Benzoic acid	2395.000	1600	5000	0	47.9	9	120				
Benzyl alcohol	3101.500	660	5000	0	62.0	36	120				
Bis(2-chloroethoxy)methane	3626.000	330	5000	0	72.5	47	120				
Bis(2-chloroethyl)ether	3564.000	330	5000	0	71.3	37	120				
Bis(2-chloroisopropyl)ether	3615.500	330	5000	0	72.3	34	120				
Bis(2-ethylhexyl)phthalate	3838.500	330	5000	0	76.8	61	127				
Butylbenzylphthalate	3662.500	330	5000	0	73.2	61	126				
Chrysene	3462.500	330	5000	0	69.3	53	133				
Di-n-butylphthalate	4026.000	330	5000	0	80.5	59	120				
Di-n-octylphthalate	3803.000	330	5000	0	76.1	50	143				
Dibenz(a,h)anthracene	3548.000	200	5000	0	71.0	32	146				
Dibenzofuran	3349.000	330	5000	0	67.0	57	120				
Diethylphthalate	3781.000	330	5000	0	75.6	62	120				
Dimethylphthalate	3752.000	330	5000	0	75.0	60	120				
Fluoranthene	3607.000	330	5000	0	72.1	60	120				
Fluorene	3525.000	330	5000	0	70.5	60	120				
Hexachlorobenzene	3556.000	330	5000	0	71.1	62	120				
Hexachlorocyclopentadiene	3113.500	660	5000	0	62.3	22	126				
Hexachloroethane	3175.500	330	5000	0	63.5	44	120				
Indeno(1,2,3-cd)pyrene	3491.000	330	5000	0	69.8	34	128				
Isophorone	3803.500	330	5000	0	76.1	47	120				
N-Nitrosodi-n-propylamine	3594.500	330	5000	0	71.9	24	120				
N-Nitrosodiphenylamine	3569.500	330	5000	0	71.4	60	120				
Naphthalene	3384.500	330	5000	0	67.7	46	120				
Nitrobenzene	3409.500	330	5000	0	68.2	41	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56582**	SampType: **LCS**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106356**
Client ID: **LCSS**	Batch ID: **56582**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2261859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	3823.500	1600	5000	0	76.5	28	120				
Phenanthrene	3553.000	330	5000	0	71.1	60	120				
Phenol	3239.500	330	5000	0	64.8	40	120				
Pyrene	3621.000	330	5000	0	72.4	58	120				
Pyridine	2188.500	1600	5000	0	43.8	27	120				
Surr: 1,2-Dichlorobenzene-d4	3167.500		5000		63.4	21	120				
Surr: 2,4,6-Tribromophenol	4024.500		5000		80.5	25	129				
Surr: 2-Chlorophenol-d4	3321.500		5000		66.4	24	120				
Surr: 2-Fluorobiphenyl	3319.000		5000		66.4	33	120				
Surr: 2-Fluorophenol	3472.500		5000		69.4	21	120				
Surr: 4-Terphenyl-d14	3511.500		5000		70.2	37	135				
Surr: Nitrobenzene-d5	3507.500		5000		70.2	26	120				
Surr: Phenol-d5	3237.500		5000		64.8	25	120				

Sample ID: **MB-56582**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106356**
Client ID: **PBS**	Batch ID: **56582**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2261860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56582**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106356**		
Client ID: **PBS**	Batch ID: **56582**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2261860**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3´-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	200									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	1600									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56582** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **PBS** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	200									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Pyridine	ND	1600									
Surr: 1,2-Dichlorobenzene-d4	2729.000		5000		54.6	21	120				
Surr: 2,4,6-Tribromophenol	2747.500		5000		55.0	25	129				
Surr: 2-Chlorophenol-d4	2769.500		5000		55.4	24	120				
Surr: 2-Fluorobiphenyl	2762.500		5000		55.2	33	120				
Surr: 2-Fluorophenol	2814.500		5000		56.3	21	120				
Surr: 4-Terphenyl-d14	3181.000		5000		63.6	37	135				
Surr: Nitrobenzene-d5	2910.000		5000		58.2	26	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56582**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106356**
Client ID: **PBS**	Batch ID: **56582**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2261860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Phenol-d5	2707.500		5000		54.2	25	120				

Sample ID: **N019025-006E-MS**	SampType: **MS**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **3/10/2016**	RunNo: **106356**
Client ID: **ZZZZZZ**	Batch ID: **56582**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **3/10/2016**	SeqNo: **2261868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3760.000	330	5000	0	75.2	22	120				
1,2-Dichlorobenzene	3593.000	330	5000	0	71.9	16	120				
1,3-Dichlorobenzene	3302.500	330	5000	0	66.0	14	120				
1,4-Dichlorobenzene	3434.000	330	5000	0	68.7	15	120				
2,4,5-Trichlorophenol	4914.500	330	5000	0	98.3	22	120				
2,4,6-Trichlorophenol	4694.500	330	5000	0	93.9	19	120				
2,4-Dichlorophenol	4317.500	1600	5000	0	86.4	18	120				
2,4-Dimethylphenol	4045.500	330	5000	0	80.9	22	120				
2,4-Dinitrophenol	2391.500	1600	5000	0	47.8	14	120				
2,4-Dinitrotoluene	4558.000	330	5000	0	91.2	24	120				
2,6-Dinitrotoluene	4349.500	330	5000	0	87.0	30	120				
2-Chloronaphthalene	3715.000	330	5000	0	74.3	29	120				
2-Chlorophenol	3922.500	330	5000	0	78.4	16	120				
2-Methylnaphthalene	3968.000	330	5000	0	79.4	24	120				
2-Methylphenol	4350.000	330	5000	0	87.0	19	120				
2-Nitroaniline	4572.500	1600	5000	0	91.5	21	120				
2-Nitrophenol	4369.500	330	5000	0	87.4	11	120				
3,3´-Dichlorobenzidine	6289.500	660	10000	0	62.9	14	120				
3-Nitroaniline	4329.500	1600	5000	0	86.6	27	120				
4,6-Dinitro-2-methylphenol	2444.500	1600	5000	0	48.9	18	120				
4-Bromophenyl-phenylether	4599.000	330	5000	0	92.0	35	120				
4-Chloro-3-methylphenol	4618.000	660	5000	0	92.4	21	120				
4-Chloroaniline	3042.000	660	5000	0	60.8	13	120				
4-Chlorophenyl-phenylether	4519.500	330	5000	0	90.4	35	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019025-006E-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methylphenol	4222.000	330	5000	0	84.4	19	120				
4-Nitroaniline	4276.000	1600	5000	0	85.5	16	120				
4-Nitrophenol	4910.000	1600	5000	0	98.2	12	120				
Acenaphthene	3992.000	330	5000	0	79.8	29	120				
Acenaphthylene	3964.000	330	5000	0	79.3	31	120				
Anthracene	4601.500	330	5000	0	92.0	10	120				
Benzo(a)anthracene	4298.000	330	5000	0	86.0	31	120				
Benzoic acid	2278.500	1600	5000	0	45.6	7	120				
Benzyl alcohol	3642.000	660	5000	0	72.8	15	120				
Bis(2-chloroethoxy)methane	4204.500	330	5000	0	84.1	25	120				
Bis(2-chloroethyl)ether	3917.000	330	5000	0	78.3	13	120				
Bis(2-chloroisopropyl)ether	4022.500	330	5000	0	80.4	14	120				
Bis(2-ethylhexyl)phthalate	4958.000	330	5000	0	99.2	23	130				
Butylbenzylphthalate	4563.000	330	5000	0	91.3	24	136				
Chrysene	4071.500	330	5000	0	81.4	25	122				
Di-n-butylphthalate	5043.000	330	5000	0	101	33	120				
Dibenzofuran	4133.000	330	5000	0	82.7	32	120				
Diethylphthalate	4607.500	330	5000	0	92.2	35	120				
Dimethylphthalate	4441.500	330	5000	0	88.8	34	120				
Fluoranthene	4675.500	330	5000	0	93.5	19	120				
Fluorene	4427.500	330	5000	0	88.6	29	120				
Hexachlorobenzene	4324.500	330	5000	0	86.5	34	120				
Hexachlorocyclopentadiene	1177.000	660	5000	0	23.5	14	120				
Hexachloroethane	3285.500	330	5000	0	65.7	22	120				
Isophorone	4150.500	330	5000	0	83.0	12	120				
N-Nitrosodi-n-propylamine	4206.000	330	5000	0	84.1	24	120				
N-Nitrosodiphenylamine	4387.000	330	5000	0	87.7	34	120				
Naphthalene	4145.000	330	5000	0	82.9	24	120				
Nitrobenzene	3858.500	330	5000	0	77.2	21	120				
Pentachlorophenol	6217.000	1600	5000	0	124	15	120				S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019025-006E-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	4441.500	330	5000	0	88.8	32	120				
Phenol	3671.000	330	5000	0	73.4	16	120				
Pyrene	4697.000	330	5000	0	93.9	19	120				
Pyridine	2430.000	1600	5000	0	48.6	13	120				
Surr: 1,2-Dichlorobenzene-d4	3818.000		5000		76.4	21	120				
Surr: 2,4,6-Tribromophenol	5440.000		5000		109	25	129				
Surr: 2-Chlorophenol-d4	3880.500		5000		77.6	24	120				
Surr: 2-Fluorobiphenyl	4052.000		5000		81.0	33	120				
Surr: 2-Fluorophenol	3481.000		5000		69.6	21	120				
Surr: 4-Terphenyl-d14	4288.000		5000		85.8	37	135				
Surr: Nitrobenzene-d5	3917.500		5000		78.4	26	120				
Surr: Phenol-d5	3762.500		5000		75.2	25	120				

Sample ID: **N019025-006E-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3312.000	330	5000	0	66.2	22	120	3760	12.7	20	
1,2-Dichlorobenzene	3175.500	330	5000	0	63.5	16	120	3593	12.3	20	
1,3-Dichlorobenzene	2928.500	330	5000	0	58.6	14	120	3302	12.0	20	
1,4-Dichlorobenzene	3071.000	330	5000	0	61.4	15	120	3434	11.2	20	
2,4,5-Trichlorophenol	4004.500	330	5000	0	80.1	22	120	4914	20.4	20	R
2,4,6-Trichlorophenol	3897.000	330	5000	0	77.9	19	120	4695	18.6	20	
2,4-Dichlorophenol	3559.000	1600	5000	0	71.2	18	120	4318	19.3	20	
2,4-Dimethylphenol	2992.500	330	5000	0	59.8	22	120	4046	29.9	20	R
2,4-Dinitrophenol	2369.500	1600	5000	0	47.4	14	120	2392	0.924	20	
2,4-Dinitrotoluene	3729.500	330	5000	0	74.6	24	120	4558	20.0	20	
2,6-Dinitrotoluene	3594.000	330	5000	0	71.9	30	120	4350	19.0	20	
2-Chloronaphthalene	3175.000	330	5000	0	63.5	29	120	3715	15.7	20	
2-Chlorophenol	3304.500	330	5000	0	66.1	16	120	3923	17.1	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019025-006E-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	3380.000	330	5000	0	67.6	24	120	3968	16.0	20	
2-Methylphenol	3641.500	330	5000	0	72.8	19	120	4350	17.7	20	
2-Nitroaniline	3722.000	1600	5000	0	74.4	21	120	4573	20.5	20	R
2-Nitrophenol	3654.500	330	5000	0	73.1	11	120	4370	17.8	20	
3,3´-Dichlorobenzidine	5497.000	660	10000	0	55.0	14	120	6290	13.4	20	
3-Nitroaniline	3556.000	1600	5000	0	71.1	27	120	4330	19.6	20	
4,6-Dinitro-2-methylphenol	2041.500	1600	5000	0	40.8	18	120	2444	18.0	20	
4-Bromophenyl-phenylether	3620.000	330	5000	0	72.4	35	120	4599	23.8	20	R
4-Chloro-3-methylphenol	3700.000	660	5000	0	74.0	21	120	4618	22.1	20	R
4-Chloroaniline	2485.500	660	5000	0	49.7	13	120	3042	20.1	20	R
4-Chlorophenyl-phenylether	3693.000	330	5000	0	73.9	35	120	4520	20.1	20	R
4-Methylphenol	3534.500	330	5000	0	70.7	19	120	4222	17.7	20	
4-Nitroaniline	3469.500	1600	5000	0	69.4	16	120	4276	20.8	20	R
4-Nitrophenol	4179.500	1600	5000	0	83.6	12	120	4910	16.1	20	
Acenaphthene	3347.000	330	5000	0	66.9	29	120	3992	17.6	20	
Acenaphthylene	3265.500	330	5000	0	65.3	31	120	3964	19.3	20	
Anthracene	3596.000	330	5000	0	71.9	10	120	4602	24.5	20	R
Benzo(a)anthracene	3549.500	330	5000	0	71.0	31	120	4298	19.1	20	
Benzoic acid	2432.000	1600	5000	0	48.6	7	120	2278	6.52	20	
Benzyl alcohol	3083.500	660	5000	0	61.7	15	120	3642	16.6	20	
Bis(2-chloroethoxy)methane	3565.500	330	5000	0	71.3	25	120	4204	16.4	20	
Bis(2-chloroethyl)ether	3151.500	330	5000	0	63.0	13	120	3917	21.7	20	R
Bis(2-chloroisopropyl)ether	3720.000	330	5000	0	74.4	14	120	4022	7.81	20	
Bis(2-ethylhexyl)phthalate	4141.000	330	5000	0	82.8	23	130	4958	18.0	20	
Butylbenzylphthalate	3825.000	330	5000	0	76.5	24	136	4563	17.6	20	
Chrysene	3393.500	330	5000	0	67.9	25	122	4072	18.2	20	
Di-n-butylphthalate	4177.500	330	5000	0	83.6	33	120	5043	18.8	20	
Dibenzofuran	3423.500	330	5000	0	68.5	32	120	4133	18.8	20	
Diethylphthalate	3804.000	330	5000	0	76.1	35	120	4608	19.1	20	
Dimethylphthalate	3710.500	330	5000	0	74.2	34	120	4442	17.9	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019025-006E-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2261869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	3783.500	330	5000	0	75.7	19	120	4676	21.1	20	R
Fluorene	3489.000	330	5000	0	69.8	29	120	4428	23.7	20	R
Hexachlorobenzene	3567.000	330	5000	0	71.3	34	120	4324	19.2	20	
Hexachlorocyclopentadiene	1094.500	660	5000	0	21.9	14	120	1177	7.26	20	
Hexachloroethane	2917.500	330	5000	0	58.4	22	120	3286	11.9	20	
Isophorone	3540.500	330	5000	0	70.8	12	120	4150	15.9	20	
N-Nitrosodi-n-propylamine	3636.500	330	5000	0	72.7	24	120	4206	14.5	20	
N-Nitrosodiphenylamine	3568.000	330	5000	0	71.4	34	120	4387	20.6	20	R
Naphthalene	3474.000	330	5000	0	69.5	24	120	4145	17.6	20	
Nitrobenzene	3269.000	330	5000	0	65.4	21	120	3859	16.5	20	
Pentachlorophenol	5115.500	1600	5000	0	102	15	120	6217	19.4	20	
Phenanthrene	3579.500	330	5000	0	71.6	32	120	4442	21.5	20	R
Phenol	3063.000	330	5000	0	61.3	16	120	3671	18.1	20	
Pyrene	3851.500	330	5000	0	77.0	19	120	4697	19.8	20	
Pyridine	2287.500	1600	5000	0	45.8	13	120	2430	6.04	20	
Surr: 1,2-Dichlorobenzene-d4	3375.500		5000		67.5	21	120		0		
Surr: 2,4,6-Tribromophenol	4243.000		5000		84.9	25	129		0		
Surr: 2-Chlorophenol-d4	3411.000		5000		68.2	24	120		0		
Surr: 2-Fluorobiphenyl	3417.000		5000		68.3	33	120		0		
Surr: 2-Fluorophenol	3090.000		5000		61.8	21	120		0		
Surr: 4-Terphenyl-d14	3554.500		5000		71.1	37	135		0		
Surr: Nitrobenzene-d5	3340.500		5000		66.8	26	120		0		
Surr: Phenol-d5	3098.000		5000		62.0	25	120		0		

Sample ID: **N019025-006E-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	4147.074	2000	5003	0	82.9	27	120				
Benzo(b)fluoranthene	3636.818	3300	5003	0	72.7	29	127				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019025-006E-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	3266.633	3300	5003	0	65.3	18	120				
Benzo(k)fluoranthene	4517.259	3300	5003	0	90.3	21	135				
Di-n-octylphthalate	4447.224	3300	5003	0	88.9	35	132				
Dibenz(a,h)anthracene	3621.811	2000	5003	0	72.4	17	120				
Indeno(1,2,3-cd)pyrene	3561.781	3300	5003	0	71.2	11	120				

Sample ID: **N019025-006E-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **3/10/2016** RunNo: **106356**
Client ID: **ZZZZZZ** Batch ID: **56582** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **3/10/2016** SeqNo: **2262303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	3268.657	2000	4975	0	65.7	27	120	4147	23.7	20	R
Benzo(b)fluoranthene	2711.443	3300	4975	0	54.5	29	127	3637	0	20	
Benzo(g,h,i)perylene	2651.741	3300	4975	0	53.3	18	120	3267	0	20	
Benzo(k)fluoranthene	3691.542	3300	4975	0	74.2	21	135	4517	20.1	20	R
Di-n-octylphthalate	3532.338	3300	4975	0	71.0	35	132	4447	22.9	20	R
Dibenz(a,h)anthracene	2975.124	2000	4975	0	59.8	17	120	3622	19.6	20	
Indeno(1,2,3-cd)pyrene	2850.746	3300	4975	0	57.3	11	120	3562	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **LCS-56611**	SampType: **LCS**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **LCSS**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	26.500	5.0	50.00	0	53.0	30	111				
2-Methylnaphthalene	32.000	5.0	50.00	0	64.0	30	133				
Acenaphthene	29.000	5.0	50.00	0	58.0	35	121				
Acenaphthylene	28.500	5.0	50.00	0	57.0	28	125				
Anthracene	32.000	5.0	50.00	0	64.0	46	117				
Benzo(a)anthracene	28.000	5.0	50.00	0	56.0	52	123				
Benzo(a)pyrene	35.000	5.0	50.00	0	70.0	43	124				
Benzo(b)fluoranthene	37.000	5.0	50.00	0	74.0	48	132				
Benzo(g,h,i)perylene	34.000	5.0	50.00	0	68.0	35	136				
Benzo(k)fluoranthene	36.500	5.0	50.00	0	73.0	56	131				
Chrysene	39.500	5.0	50.00	0	79.0	55	118				
Dibenz(a,h)anthracene	36.000	5.0	50.00	0	72.0	44	137				
Fluoranthene	34.000	5.0	50.00	0	68.0	60	127				
Fluorene	30.500	5.0	50.00	0	61.0	47	118				
Indeno(1,2,3-cd)pyrene	36.500	5.0	50.00	0	73.0	44	137				
Naphthalene	29.000	5.0	50.00	0	58.0	32	127				
Phenanthrene	33.000	5.0	50.00	0	66.0	52	112				
Pyrene	33.500	5.0	50.00	0	67.0	56	127				
Surr: 1,2-Dichlorobenzene-d4	26.000		50.00		52.0	20	112				
Surr: 2-Fluorobiphenyl	29.500		50.00		59.0	29	118				
Surr: 4-Terphenyl-d14	43.000		50.00		86.0	23	136				
Surr: Nitrobenzene-d5	32.000		50.00		64.0	28	122				

Sample ID: **MB-56611**	SampType: **MBLK**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **PBS**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265116**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	5.0									
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **MB-56611**	SampType: **MBLK**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **PBS**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265116**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	23.000		50.00		46.0	20	112				
Surr: 2-Fluorobiphenyl	26.000		50.00		52.0	29	118				
Surr: 4-Terphenyl-d14	38.000		50.00		76.0	23	136				
Surr: Nitrobenzene-d5	28.000		50.00		56.0	28	122				

Sample ID: **N019043-001B-MS**	SampType: **MS**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **ZZZZZZ**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	465.465	50	200.2	276.0	94.7	29	146				

Sample ID: **N019043-001B-MSD**	SampType: **MSD**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **ZZZZZZ**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **N019043-001B-MSD**	SampType: **MSD**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **ZZZZZZ**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	445.000	50	200.0	276.0	84.5	29	146	465.5	4.50	20	

Sample ID: **N019043-001B-MS**	SampType: **MS**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **3/14/2016**	RunNo: **106401**
Client ID: **ZZZZZZ**	Batch ID: **56611**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **3/14/2016**	SeqNo: **2265121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	130.631	5.0	200.2	9.533	60.5	30	111				
2-Methylnaphthalene	176.677	5.0	200.2	24.59	76.0	27	112				
Acenaphthene	134.134	5.0	200.2	2.509	65.7	23	115				
Acenaphthylene	147.648	5.0	200.2	11.54	68.0	14	128				
Anthracene	164.164	5.0	200.2	21.58	71.2	39	107				
Benzo(a)anthracene	235.736	5.0	200.2	105.9	64.9	28	130				
Benzo(a)pyrene	277.778	5.0	200.2	131.5	73.1	28	121				
Benzo(g,h,i)perylene	81.081	5.0	200.2	45.16	17.9	26	115				S
Benzo(k)fluoranthene	273.774	5.0	200.2	81.79	95.9	25	148				
Chrysene	369.369	5.0	200.2	236.3	66.5	18	125				
Dibenz(a,h)anthracene	76.076	5.0	200.2	21.07	27.5	29	121				S
Fluoranthene	370.871	5.0	200.2	223.8	73.5	21	140				
Fluorene	146.647	5.0	200.2	6.523	70.0	23	125				
Indeno(1,2,3-cd)pyrene	97.598	5.0	200.2	46.66	25.4	26	120				S
Naphthalene	164.164	5.0	200.2	31.61	66.2	28	98				
Phenanthrene	379.880	5.0	200.2	212.2	83.7	17	133				
Pyrene	389.890	5.0	200.2	219.8	85.0	32	122				
Surr: 1,2-Dichlorobenzene-d4	31.031		50.05		62.0	20	112				
Surr: 2-Fluorobiphenyl	35.536		50.05		71.0	29	118				
Surr: 4-Terphenyl-d14	41.041		50.05		82.0	23	136				
Surr: Nitrobenzene-d5	47.047		50.05		94.0	28	122				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **N019043-001B-MSD** SampType: **MSD** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **3/14/2016** RunNo: **106401**
Client ID: **ZZZZZZ** Batch ID: **56611** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **3/14/2016** SeqNo: **2265122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	138.000	5.0	200.0	9.533	64.2	30	111	130.6	5.49	20	
2-Methylnaphthalene	185.500	5.0	200.0	24.59	80.5	27	112	176.7	4.87	20	
Acenaphthene	140.000	5.0	200.0	2.509	68.7	23	115	134.1	4.28	20	
Acenaphthylene	151.000	5.0	200.0	11.54	69.7	14	128	147.6	2.25	20	
Anthracene	185.000	5.0	200.0	21.58	81.7	39	107	164.2	11.9	20	
Benzo(a)anthracene	220.500	5.0	200.0	105.9	57.3	28	130	235.7	6.68	20	
Benzo(a)pyrene	256.500	5.0	200.0	131.5	62.5	28	121	277.8	7.97	20	
Benzo(g,h,i)perylene	77.500	5.0	200.0	45.16	16.2	26	115	81.08	4.52	20	S
Benzo(k)fluoranthene	257.000	5.0	200.0	81.79	87.6	25	148	273.8	6.32	20	
Chrysene	345.000	5.0	200.0	236.3	54.3	18	125	369.4	6.82	20	
Dibenz(a,h)anthracene	77.000	5.0	200.0	21.07	28.0	29	121	76.08	1.21	20	S
Fluoranthene	378.500	5.0	200.0	223.8	77.4	21	140	370.9	2.04	20	
Fluorene	152.000	5.0	200.0	6.523	72.7	23	125	146.6	3.59	20	
Indeno(1,2,3-cd)pyrene	95.500	5.0	200.0	46.66	24.4	26	120	97.60	2.17	20	S
Naphthalene	172.000	5.0	200.0	31.61	70.2	28	98	164.2	4.66	20	
Phenanthrene	374.000	5.0	200.0	212.2	80.9	17	133	379.9	1.56	20	
Pyrene	385.000	5.0	200.0	219.8	82.6	32	122	389.9	1.26	20	
Surr: 1,2-Dichlorobenzene-d4	31.500		50.00		63.0	20	112		0		
Surr: 2-Fluorobiphenyl	37.000		50.00		74.0	29	118		0		
Surr: 4-Terphenyl-d14	44.500		50.00		89.0	23	136		0		
Surr: Nitrobenzene-d5	47.000		50.00		94.0	28	122		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Logistical Solutions LLC
Work Order: N019043
Project: NERT-Storm Water Outfall, MIC161008

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **N019043-001CDUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **106369**
Client ID: **ZZZZZZ** Batch ID: **R106369** TestNo: **EPA 9045C** Analysis Date: **3/11/2016** SeqNo: **2263292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.540	0.10						7.570	0.397	20	
Temp. at time of pH Analysis	23.700	0						23.80	0.421	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.3072691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Logistical Solutions, LLC	Report to: Kristopher Everett	Bill to: Logistical Solutions, LLC	EDD Requirement: Excel EDD ☐ Geotracker ☐ Labspec ☐ Others ☐ Specify:
Address: 4780 W. Ann Road #5-237	Company: Logistical Solutions, LLC	Address: 4780 W. Ann Road #5-237	QA/QC: RTNE ☐ RWQCB ☐ CalTrans ☐ Level III ☐ LEVEL IV ☐ Regulatory ☐ Specify State:
Address: N. Las Vegas, Nevada 89031	Email: keverett@losonow.com	N. Las Vegas, Nevada 89030	Sampe Receipt Condition: Y N; 1. Chilled ☐ ☐; 2. Headspace ☐ ☐; 3. Container Intact ☐ ☐; 4. Seal Present ☐ ☐; 5. IR number 2; 6. Method of Cooling ICE
Phone: 702-596-2021 Fax: 702-974-1776	Address:	Email to: ap@losonow.com PO# MIC161008	
Submitted By: Kristopher Everett		Phone: (702) 596-2021 Fax: (702) 974-1776 Global ID:	Sample Temp: 3.4°C
Title: Sr. Project Manager / CEM	Phone: (702) 340-2594 Fax:		
Signature: Kristopher Everett Date: 3/10/16	Sampled By: Kristopher Everett		
I hereby authorize ASSET Labs to perform the tests indicated below:	*I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action*		
Project Name: NERT-Storm Water Outfall	Signature: Kristopher Everett Date: 3/10/16		
Project Number: MIC161008			

Matrix: Ground ☐ Sediment ☐ Potable ☐ Soil ☐ NPDES ☐ Other Solid ☐ Surface ☐

Courier: ASSET Tracking No.

Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	8260B (VOCs)	8015B (GRO, DRO and ORO)	Asbestos by 600/R-93-116	RCRA 8 (6010B/7000)	Ignitibility	pH	8270 (SVOCs & PAHs)	8081 OCPs	Anions by 9056	PCBs by 8082	Perchlorate by 314.0	Sulfide by 9034	Hexavalent Chromium by 7196 or 7199	Dioxins/Furans by 8290	Turn Around Time	No. of container	Container Type	PRESERVATION	Remarks
1	NO19043-1	NERT-SO-Composite-03 / NERT Storm Water Outfall	3/09/16	1137		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	D		J	C	See attached List of Analytical Parameters
2																			2b							
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Relinquished by (Signature and Printed Name)	Date / Time	Received by (Signature and Printed Name)	Date / Time
Kristopher Everett / Kris Everett	3/10/16 1040		3/10/16 @ 1040
	3/10/16 @ 1107	Yoandra Rodriguez	3/10/16 11:07

Turn Around Time (TAT)
- ☐ A < 24 Hrs or Same Day TAT
- ☐ B = Next Workday
- ☐ C = 2 Workdays
- ☒ D = 3 Workdays
- ☐ E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00 PM.

Special Instruction:
Include magnesium, maganese, platinum and titanium

Terms
1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis:
Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 Days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives: H = HCl; N = HNO3; S = H2SO4; C = 4°C; Z = Zn(AC)2; O = NaOH; T = Na2S2O3; Others/Specify:

Container Type: T = Tube; V = VOA; P = Pint; J = Jar; B = Tedlar; G = Glass; M = Metal; P = Plastic; C = Can

White = Laboratory Copy
Yellow = Customer's Copy

Table 4 **Analytical Parameters for Soil Sampling for Full Suite of COPCs**
Analytical Parameters
Asbestos by EPA Method 600/R-93-116
Cyanide by EPA Method 9012
Dioxins/Furans by EPA Method 8290
Hexavalent chromium by EPA Method 7196A or 7199
Inorganic anions (bromide, chloride, fluoride, nitrate as nitrate, sulfate, nitrite as N, nitrate as N, and orthophosphate as phosphate) by EPA Method 9056
Mercury by EPA Method 7471
Metals (incl. manganese dioxide and iron oxide) by EPA Methods 6010 or 6020
OCPs by EPA Method 8081A
PAHs by EPA Method 8310 or 8270D
PCBs by EPA Method 8082
Perchlorate by EPA Method 314.0 or 6850
pH by EPA Method 9045D
Sulfide by EPA Method 9034
SVOCs (incl. HCB and B(a)P) by EPA Method 8270D
VOCs by EPA Method 8260B

Also include:
Ignitability

Arsenic, chromium, platinum, ~~manganese~~
Magnesium, manganese and titanium.

Full TPH by 8015M

RCRA 8 Metals

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	3/10/2016	Workorder:	N019043
Rep sample Temp (Deg C):	3.4	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: HG 3/11/2016

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

10-Mar-16

WorkOrder: N019043

Client ID: LOGSO01

Project: NERT-Storm Water Outfall, MIC161008 **QC Level:** RTNE **Date Received:** 3/10/2016

Comments: include magnesium, manganese, platinum and titanium

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019043-001A	NERT-SO/NERT Storm Wate r Outfall Composite 03	3/9/2016 11:37:00 AM	3/15/2016	Solid	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			3/15/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019043-001B			3/15/2016		EPA 3546	Microwave Extraction	☐	☐	☐	AH
			3/15/2016		EPA 3546	Microwave Extraction	☐	☐	☐	AH
			3/15/2016		EPA 3546	Microwave Extraction	☐	☐	☐	AH
			3/15/2016		EPA 3546	Microwave Extraction	☐	☐	☐	AH
			3/15/2016		EPA 3546	Microwave Extraction	☐	☐	☐	AH
			3/15/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	AH
			3/15/2016		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	AH
			3/15/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	AH
			3/15/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	AH
			3/15/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	AH
N019043-001C			3/15/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			3/15/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			3/15/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WS
			3/15/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WS
			3/15/2016			MERCURY PREP	☐	☐	☐	WS
			3/15/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	WS
			3/15/2016		EPA 9045C	pH	☐	☐	☐	WS
N019043-001D			3/15/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

10-Mar-16

WorkOrder: N019043

Client ID: LOGSO01

Project: NERT-Storm Water Outfall, MIC161008 **QC Level:** RTNE **Date Received:** 3/10/2016

Comments: include magnesium, manganese, platinum and titanium

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019043-001D	NERT-SO/NERT Storm Wate r Outfall Composite 03	3/9/2016 11:37:00 AM	3/15/2016	Solid	EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	WS
			3/15/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS
N019043-001E			3/15/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019043-001F			3/15/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☑	SUB
N019043-001G			3/15/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019043-001H			3/15/2016		Asb_PLM	Asbestos PLM	☐	☐	☑	SUB
N019043-001I			3/15/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB
N019043-001J			3/15/2016		EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
N019043-001K			3/15/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019043-002A	FOLDER		3/15/2016		Folder	Folder	☐	☐	☐	LAB

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Enthalpy Analytical
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler:

11-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 1030		
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043E Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 3/15/2016

OSO #. 531205558

		Date/Time		Date/Time
Relinquished by:	Yeandro Rodriguez	3/4/16 17:00	**Received by:**	
Relinquished by:			**Received by:**	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Forensic
3777 Depot Road #409
Hayward, CA 94545

TEL: (800) 827-3274
FAX:
Acct #: 5727

Field Sampler: Kristopher Everett

11-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				Asb_PLM		
N019043-001H / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19043D Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2-day TAT.

Please analyze for Asbestos by EPA 600/R-93-116

		Date/Time		Date/Time
Relinquished by:	Yoandra Rodriguez	3/11/16 8:15 am	**Received by:**	3/11/16 0847
Relinquished by:			**Received by:**	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler:

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 1030	~~EPA 300.0~~ 9056	~~EPA 9014~~ 9012
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		
N019043-001F / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG		1	
N019043-001I / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			1
N019043-001J / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Ignitability by 1030, Inorganic Anions by (Bromide, Chloride, Flouride, Nitrate as Nitrate, Sulfate, Nitrite as N, Nitrate as N and Orthophosphate as Phosphate by 9056, Cyanide by 9012 and Sulfide by 9034.

		Date/Time		Date/Time
			fedex #: 775848741036	
Relinquished by:	Yoanda Rodriguez	3/10/16 16:15	**Received by:**	
Relinquished by:			**Received by:**	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler:

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				~~EPA 9030B~~ 9034		
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001F / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001I / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001J / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Ignitability by 1030, Inorganic Anions by (Bromide, Chloride, Flouride, Nitrate as Nitrate, Sulfate, Nitrite as N, Nitrate as N and Orthophosphate as Phosphate by 9056, Cyanide by 9012 and Sulfide by 9034.

Fedex #: 775848241036

		Date/Time			Date/Time
Relinquished by:	Yoanna Rodriguez	3/10/16 16:15	**Received by:**		
Relinquished by:			**Received by:**		

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612) 607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Kristopher Everett

10-Mar-16

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**EPA 8290**		
N019043-001G / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	8OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19043A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

Fedex #: 775848637762

		Date/Time			Date/Time
Relinquished by:	Joanna Rodriguez	3/10/16 16:15	**Received by:**		
Relinquished by:			**Received by:**		

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Test America
13715 Rider Trail North
Earth City, MO 63045

TEL: 314.298-8566
FAX:
Acct #:

Field Sampler: Kristopher Everett

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 6010B		
N019043-001K / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043C Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Platinum by 6010.

		Date/Time		Date/Time
Relinquished by:	[illegible]	3/10/16 1700	**Received by:**	Fedex: 7758 4879 6205
Relinquished by:			**Received by:**	

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Asset Laboratories
Address:	3151-3153 W. Post Road Las Vegas, NV 89118
Attn:	Marlon Cartin
Comments:	P.O. #: N19043E

Lab Request:	367295
Report Date:	03/14/2016
Date Received:	03/12/2016
Client ID:	12257

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
367295-001	N019043-001E / NERT-SO/NERT Storm Water

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Winston Yu, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	03/09/2016 11:37	**Site:**			
Sample #:	**367295-001**	**Client Sample #:**	N019043-001E / NERT-SO/NERT Sto	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method						QCBatchID: QC1164540		
Ignitability	**not ignited**	1			mm/sec	03/12/16	03/12/16	TP	

Data Qualifiers and Definitions

Qualifiers

B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

367295

Subcontractor:

Enthalpy Analytical
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler:

11-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 1030		
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043E Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 3/15/2016

GSO #. 53205558

		Date/Time			Date/Time
Relinquished by:	Joandro Rodriguez	3/4/16 17:00	**Received by:**		3/12/16 11:10.
Relinquished by:			**Received by:**		

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ASSET LABS Project: _____

Date Received: 3/12/16 Sampler's Signature Present: Yes (No)

Sample temperature: _____

Sample(s) received in cooler: (Yes) No (Skip Section 2)

Shipping Information: (GSO.)

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ✓ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other _____

Cooler 1 Temperature: 1.8°C Cooler 2 Temperature: _____ Cooler 3 Temperature: _____

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments

Section 5

Was the Project Manager notified via email of discrepancies: Y / N (N/A)

Project Manager's response: _____

Completed By: _____ Date: 3/12/16

GSO
GOLDEN STATE OVERNIGHT

800-322-5555 www.gso.com

Ship From
ADVANCED TECHNOLOGY LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
806 N. BATAVIA
ORANGE, CA 92868

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 531205558

SDS

ORC D

ORANGE

D92865A

49309164

Print Date: 3/11/2016 11:28 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

March 16, 2016

Marlon Cartin
ASSET Laboratories
3151 W Post Rd
Las Vegas, Nevada 89118

Re: Routine Analytical
Work Order: 393045

Dear Marlon Cartin:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 11, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4707.

Sincerely,

Anna C Day

Anna Day
Project Manager

Purchase Order: N19043B
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

ADTL001 ASSET Laboratories

Client SDG: 393045 GEL Work Order: 393045

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Anna Day.

Reviewed by Anna C Day

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 16, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019043-001F / NERT-SO/NERT Storm Water
Project: ADTL00112
Sample ID: 393045002
Client ID: ADTL001
Matrix: Solid
Collect Date: 09-MAR-16 11:37
Receive Date: 11-MAR-16
Collector: Client
Moisture: 22.8%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography											
SW846 9056A Anions "Dry Weight Corrected"											
Bromide	U	ND	0.860	2.57	mg/kg	1	MXL2	03/14/16	1242	1551909	1
Chloride		21.8	0.860	2.57	mg/kg	1					
Fluoride		5.02	0.423	1.28	mg/kg	1					
Nitrate-N		2.05	0.423	1.28	mg/kg	1					
Nitrite-N	U	ND	0.423	1.28	mg/kg	1					
O-Phosphate as P		11.9	0.860	2.57	mg/kg	1					
Sulfate		275	3.41	10.3	mg/kg	2	MXL2	03/14/16	1420	1551909	2
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "Dry Weight Corrected"											
Nitrogen, Nitrate/Nitrite		1.31	0.216	0.637	mg/kg	1	KLP1	03/15/16	1519	1551959	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 353.2 Modified	EPA 353.2 Modified Nitrate/Nitrite	KLP1	03/15/16	1400	1551958
SW846 9056A	SW846 9056A Total Anions in Soil	MXL2	03/14/16	0847	1551908

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	
2	SW846 9056A	
3	EPA 353.2 Modified	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 16, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019043-001I / NERT-SO/NERT Storm Water
Project: ADTL00112
Sample ID: 393045003
Client ID: ADTL001
Matrix: Solid
Collect Date: 09-MAR-16 11:37
Receive Date: 11-MAR-16
Collector: Client
Moisture: 26.8%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012B Cyanide, Total "Dry Weight Corrected"											
Cyanide, Total		2010	114	341	ug/kg	1	AXH3	03/15/16	1359	1552367	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010C Distillation	SW846 9010C Prep	AXH3	03/15/16	1346	1552366

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9012B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 16, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019043-001J / NERT-SO/NERT Storm Water
Project: ADTL00112
Sample ID: 393045004
Client ID: ADTL001
Matrix: Solid
Collect Date: 09-MAR-16 11:37
Receive Date: 11-MAR-16
Collector: Client
Moisture: 20.1%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis											
SW846 9030B/9034 Sulfide in Soil "Dry Weight Corrected"											
Acid Soluble Sulfides	U	ND	11300	31300	ug/kg		SXC5	03/15/16	1412	1552182	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9030B/9034	

Notes:

QC Summary

Report Date: March 16, 2016

ASSET Laboratories
3151 W Post Rd
Las Vegas, Nevada

Contact: **Marlon Cartin**

Workorder: **393045**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Flow Injection Analysis										
Batch 1552367										
QC1203508551 393045003 DUP										
Cyanide, Total		2010		3060	ug/kg	41.5*		(0%-30%)	AXH3	03/15/16 14:00
QC1203508550 LCS										
Cyanide, Total	90600			100000	ug/kg		110	(64%-149%)		03/15/16 13:57
QC1203508549 MB										
Cyanide, Total			U	ND	ug/kg					03/15/16 13:56
QC1203508552 393045003 MS										
Cyanide, Total	4550	2010		5730	ug/kg		81.9	(47%-133%)		03/15/16 14:01
Ion Chromatography										
Batch 1551909										
QC1203507457 393045002 DUP										
Bromide	U	ND	U	ND	mg/kg	N/A			MXL2	03/14/16 13:14
Chloride		21.8		23.3	mg/kg	6.54		(0%-20%)		
Fluoride		5.02		4.77	mg/kg	5.03 ^		(+/-1.29)		
Nitrate-N		2.05		2.15	mg/kg	4.77 ^		(+/-1.29)		
Nitrite-N	U	ND	U	ND	mg/kg	N/A				
O-Phosphate as P		11.9		11.5	mg/kg	3.9 ^		(+/-2.57)		
Sulfate		275		286	mg/kg	3.89		(0%-20%)		03/14/16 14:53
QC1203507456 LCS										
Bromide	12.5			11.6	mg/kg		93.1	(90%-110%)		03/14/16 12:09
Chloride	50.0			46.9	mg/kg		93.9	(90%-110%)		
Fluoride	25.0			24.4	mg/kg		97.8	(90%-110%)		
Nitrate-N	25.0			23.8	mg/kg		95.2	(90%-110%)		
Nitrite-N	25.0			23.7	mg/kg		94.8	(90%-110%)		
O-Phosphate as P	12.5			12.3	mg/kg		98.2	(90%-110%)		

QC Summary

Workorder: **393045**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 1551909												
Sulfate	100				95.9	mg/kg		95.9	(90%-110%)			
QC1203507455 MB												
Bromide				U	ND	mg/kg				MXL2	03/14/16	10:30
Chloride				U	ND	mg/kg						
Fluoride				U	ND	mg/kg						
Nitrate-N				U	ND	mg/kg						
Nitrite-N				U	ND	mg/kg						
O-Phosphate as P				U	ND	mg/kg						
Sulfate				U	ND	mg/kg						
QC1203507458 393045002 MS												
Bromide	16.0	U	ND		15.2	mg/kg		95.1	(74%-113%)		03/14/16	13:47
Chloride	64.0		21.8		86.1	mg/kg		100	(48%-145%)			
Fluoride	32.0		5.02		23.5	mg/kg		57.7	(30%-135%)			
Nitrate-N	32.0		2.05		30.8	mg/kg		89.9	(70%-125%)			
Nitrite-N	32.0	U	ND		29.1	mg/kg		91	(70%-120%)			
O-Phosphate as P	16.0		11.9		21.4	mg/kg		59.6	(35%-134%)			
Sulfate	128		275		435	mg/kg		125	(45%-162%)		03/14/16	15:26
Nutrient Analysis												
Batch 1551959												
QC1203507655 393045002 DUP												
Nitrogen, Nitrate/Nitrite			1.31		1.52	mg/kg	14.6 ^		(+/-0.643)	KLP1	03/15/16	15:21
QC1203507654 LCS												
Nitrogen, Nitrate/Nitrite	10.0				10.7	mg/kg		107	(90%-110%)		03/15/16	15:18
QC1203507653 MB												
Nitrogen, Nitrate/Nitrite				U	ND	mg/kg					03/15/16	15:17
QC1203507656 393045002 MS												
Nitrogen, Nitrate/Nitrite	12.7		1.31		13.2	mg/kg		93.6	(75%-125%)		03/15/16	15:22

QC Summary

Workorder: **393045**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 1552182										
QC1203508121 393045004 DUP										
Acid Soluble Sulfides	U	ND	U	ND	ug/kg	N/A			SXC5	03/15/16 14:13
QC1203508120 LCS										
Acid Soluble Sulfides	100000			98900	ug/kg		98.9	(79%-102%)		03/15/16 14:11
QC1203508119 MB										
Acid Soluble Sulfides			U	ND	ug/kg					03/15/16 14:09
QC1203508122 393045004 MS										
Acid Soluble Sulfides	125000	U	ND	101000	ug/kg		80.8	(57%-104%)		03/15/16 14:14

Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a Tracer compound
<	Result is less than value reported
>	Result is greater than value reported
B	The target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
FA	Failed analysis.
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification

QC Summary

Workorder: **393045**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

d 5-day BOD--The 2:1 depletion requirement was not met for this sample

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT

Mo.Day Yr.	**Division:**	**Quality Criteria:**	**Type:**
15−MAR−16	Industrial	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
LACHAT Flow Injection Analyzer	SW846 9012B	Solid	ADTL
Batch ID:	**Sample Numbers:**		
1552367	See Below		

Potentially affected work order(s)(SDG): 393045

Application Issues:

Failed RPD for DUP

Specification and Requirements Exception Description:	**DER Disposition:**
1. Failed RPD for DUP: QC 1203508551(N019043−001I / NERT−SO/NERT Storm Water)DUP	1. The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample: Cyanide, Total 1203508551 (N019043−001I / NERT−SO/NERT Storm WaterDUP) [41.5* (0%−30%)].

Originator's Name:

Aubrey Kingsbury 15−MAR−16

Data Validator/Group Leader:

Kristen Mizzell 15−MAR−16

393045

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler:

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 1030	~~EPA 300.0~~ 9056	~~EPA 9014~~ 9012
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		
N019043-001F / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG		1	
N019043-001I / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			1
N019043-001J / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Ignitability by 1030, Inorganic Anions by (Bromide, Chloride, Flouride, Nitrate as Nitrate, Sulfate, Nitrite as N, Nitrate as N and Orthophosphate as Phosphate by 9056, Cyanide by 9012 and Sulfide by 9034.

Fedex #: 775848741036

	Date/Time		Date/Time
Relinquished by: Yoanda Rodriguez	3/10/16 16:15	**Received by:**	3/11/16 10:00
Relinquished by:		**Received by:**	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler:

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				~~EPA 9030B~~ 9034		
N019043-001E / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001F / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001I / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG			
N019043-001J / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Ignitability by 1030, Inorganic Anions by (Bromide, Chloride, Flouride, Nitrate as Nitrate, Sulfate, Nitrite as N, Nitrate as N and Orthophosphate as Phosphate by 9056, Cyanide by 9012 and Sulfide by 9034.

Fedex #: 775848741034

		Date/Time			Date/Time
Relinquished by:	Yoanda Rodriguez	3/10/16 16:15	**Received by:**		3/11/16 10:00
Relinquished by:			**Received by:**		

Subject: RE: Samples Received Today - Please Advise! Out of Holding soon
From: "Marlon B. Cartin" <marlon@assetlaboratories.com>
Date: 3/11/2016 2:21 PM
To: "'Anna Claire Day'" <Anna.Day@gel.com>

Please see response below.

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | F: 702.307.2691 | M: 702.439.0421

From: Anna Claire Day [mailto:Anna.Day@gel.com]
Sent: Friday, March 11, 2016 11:06 AM
To: Marlon B. Cartin
Subject: Re: Samples Received Today - Please Advise! Out of Holding soon

Our standard TAT is 10 business days for chemistry.
5 business days - 1.5x
3 business days - 2.0x

Would you rather do the 5 business day turn? ***[Marlon Cartin]*** Nope. Just do the 3 day TAT.

I still need to know what you want to run for these samples, otherwise it will be difficult to do the rush. Is this right?

N019043-001E - Ignitability, Setaflash 1020 ***[Marlon Cartin]*** - Please cancel this analysis
N019043-001F - Anions by 9056A (Bromide, Chloride, Fluoride, Nitrate, Nitrite, OrthoPhos, Sulfate) Also Nitrate/Nitrite.***[Marlon Cartin]*** yes
N019043-001I - SW9012B Cyanide, Total***[Marlon Cartin]*** yes
N019043-001J - SW846 9030B/9034 Sulfide***[Marlon Cartin]*** by 9034

On 3/11/2016 1:53 PM, Marlon B. Cartin wrote:

> Can we wiggle down the surcharge to 50%? This will be a continues project and I'm thinking of sending the samples to you.
>
> Thanks,
>
> **Marlon B. Cartin**
> Project Manager
> Nevada: 3151 W. Post Road, Las Vegas, NV 89118
> **P:** 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421
>
> ---
>
> **From:** Anna Claire Day [mailto:Anna.Day@gel.com]
> **Sent:** Friday, March 11, 2016 10:51 AM
> **To:** Marlon B. Cartin
> **Subject:** Re: Samples Received Today - Please Advise! Out of Holding soon

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: ADTL			**SDG/AR/COC/Work Order:** 393045
Received By: Shanta Mack			**Date Received:** 3/11/16 10:00
Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			✓	Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 1.9°C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): ES03201583S
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials contain acid preservation?		✓		(If unknown, select No)
8	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
9	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
10	Samples received within holding time?	✓			ID's and tests affected:
11	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
12	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
13	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
14	Are sample containers identifiable as GEL provided?			✓	
15	COC form is properly signed in relinquished/received sections?	✓			
16	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 7758 4874 1036

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AMD Date 3/15/16 Page 1 of 1 GL-CHL-SR-001 Rev 2

List of current GEL Certifications as of 16 March 2016

State	Certification
Alaska	UST−0110
Arkansas	88−0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH−0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330−15−00283, P330−15−00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C−SC−01
Kansas NELAP	E−10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M−SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE−OS−26−13
Nevada	SC000122016−1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R−158
Oklahoma	9904
Pennsylvania NELAP	68−00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235−16−11
Utah NELAP	SC000122016−20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

ASSET Laboratories
Marlon Cartin
3151 W. Post Road

Las Vegas, NV 89118

Client ID: L1768
Report Number: B218110
Date Received: 03/14/16
Date Analyzed: 03/16/16
Date Printed: 03/16/16
First Reported: 03/16/16

Job ID/Site:

Date(s) Collected: 03/09/2016

FALI Job ID: L1768
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
N019043-001H	01118982						
Layer: Black Soil			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 / Telephone: (702) 387-0040 / Fax: (702) 784-0030

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Marlon Cartin
Asset Laboratories
3151 West Post Road
Las Vegas NV 89118

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10341153
Sample Receipt Date: 03/11/2016
Client Project #: N019043
Client Sub PO #: N19043A
State Cert #: MN_00064_2000_72

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

March 21, 2016

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
March 21, 2016

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of AssetLaboratories. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 50-89%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Concentrations above the calibration range were flagged "E" and should be regarded as estimates. The OCDF value reported for the field sample was obtained from the analysis of a diluted extract and was flagged "D" and "N2".

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. This indicates that the sample preparation procedures did not significantly impact the results reported for the field sample.

A laboratory spike sample was also prepared using clean sand that had been fortified with native standard materials. The recoveries of the native compounds ranged from 99-130%. These results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

The responses obtained for selected native and labeled congeners in calibration standard analysis F160316A_17 were outside the target ranges. As specified in the method, the averages of the daily response factors for these compounds were used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q
Minnesota	027-053-137		

REPORT OF LABORATORY ANALYSIS

Report No.....10341153

Appendix A

Sample Management

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

10341153

QC Level: RTNE

Subcontractor:
Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612) 607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Kristopher Everett

10-Mar-16

				Requested Tests		
Sample ID	**Matrix**	**Date Collected**	**Bottle Type**	**EPA 8290**		
N019043-001G / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	8OZG	1		EDD

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19043A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

Fedex #: 775848637762

		Date/Time			Date/Time
Relinquished by:	Joanna Rodriguez	3/10/16 16:15	**Received by:**		3.11.16 11:00
Relinquished by:			**Received by:**		

T=3.1°C

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Asset Labs

Project #: WO#: 10341153

10341153

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7758 4863 7762

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermometer Used: ☐ 151401163 ☑ B88A912167504 ☐ 151401164 ☐ B88A0143310098 **Type of Ice:** ☐ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.0 **Cooler Temp Corrected (°C):** 3.1 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** KAC 3/11/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Joanne Richardson **Date:** 3/11/2016

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019043-001G		
Lab Sample ID	10341153001		
Filename	Y160316B_06		
Injected By	SMT		
Total Amount Extracted	15.0 g	Matrix	Solid
% Moisture	24.1	Dilution	NA
Dry Weight Extracted	11.4 g	Collected	03/09/2016 11:37
ICAL ID	Y160218	Received	03/11/2016 11:00
CCal Filename(s)	Y160316B_02 & Y160316B_20	Extracted	03/14/2016 16:30
Method Blank ID	BLANK-49396	Analyzed	03/16/2016 18:31

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	1100	-----	1.0	E	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	15000	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	31	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	950	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	1500	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	870	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	16000	-----	5.0	E	1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	91	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	1000	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	3000	-----	5.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	2200	-----	5.0		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	1200	-----	5.0				
1,2,3,7,8,9-HxCDF	930	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	18000	-----	5.0	E	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	70	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	160	-----	5.0				
1,2,3,7,8,9-HxCDD	120	-----	5.0				
Total HxCDD	1200	-----	5.0				
1,2,3,4,6,7,8-HpCDF	10000	-----	5.0	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3300	-----	5.0	E	Equivalence: 1800 ng/Kg		
Total HpCDF	19000	-----	5.0	E	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	500	-----	5.0				
Total HpCDD	820	-----	5.0				
OCDF	220000	-----	10.0	DN2			
OCDD	1000	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range
D = Result obtained from analysis of diluted sample
Nn = Value obtained from additional analysis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-49396	Matrix	Solid
Filename	F160316A_14	Dilution	NA
Total Amount Extracted	21.0 g	Extracted	03/14/2016 16:30
ICAL ID	F160115	Analyzed	03/16/2016 20:28
CCal Filename(s)	F160316A_01 & F160316A_17	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	101
				1,2,3,7,8-PeCDF-13C	2.00	79 Y
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	70 Y
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-49397		
Filename	F160316A_16	Matrix	Solid
Total Amount Extracted	20.5 g	Dilution	NA
ICAL ID	F160115	Extracted	03/14/2016 16:30
CCal Filename(s)	F160316A_01 & F160316A_17	Analyzed	03/16/2016 21:54
Method Blank ID	BLANK-49396	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.20	0.24	118	Y	2,3,7,8-TCDF-13C	2.0	82	
Total TCDF					2,3,7,8-TCDD-13C	2.0	89	
					1,2,3,7,8-PeCDF-13C	2.0	76	Y
2,3,7,8-TCDD	0.20	0.20	99		2,3,4,7,8-PeCDF-13C	2.0	67	Y
Total TCDD					1,2,3,7,8-PeCDD-13C	2.0	93	
					1,2,3,4,7,8-HxCDF-13C	2.0	76	
1,2,3,7,8-PeCDF	1.0	1.3	130		1,2,3,6,7,8-HxCDF-13C	2.0	81	
2,3,4,7,8-PeCDF	1.0	1.2	122		2,3,4,6,7,8-HxCDF-13C	2.0	82	
Total PeCDF					1,2,3,7,8,9-HxCDF-13C	2.0	86	
					1,2,3,4,7,8-HxCDD-13C	2.0	67	
1,2,3,7,8-PeCDD	1.0	1.1	113		1,2,3,6,7,8-HxCDD-13C	2.0	63	
Total PeCDD					1,2,3,4,6,7,8-HpCDF-13C	2.0	56	
					1,2,3,4,7,8,9-HpCDF-13C	2.0	54	
1,2,3,4,7,8-HxCDF	1.0	1.2	117		1,2,3,4,6,7,8-HpCDD-13C	2.0	57	
1,2,3,6,7,8-HxCDF	1.0	1.2	116		OCDD-13C	4.0	41	
2,3,4,6,7,8-HxCDF	1.0	1.1	110					
1,2,3,7,8,9-HxCDF	1.0	1.1	114		1,2,3,4-TCDD-13C	2.0	NA	
Total HxCDF					1,2,3,7,8,9-HxCDD-13C	2.0	NA	
1,2,3,4,7,8-HxCDD	1.0	1.3	128		2,3,7,8-TCDD-37Cl4	0.20	87	
1,2,3,6,7,8-HxCDD	1.0	1.3	127	Y				
1,2,3,7,8,9-HxCDD	1.0	1.2	122	Y				
Total HxCDD								
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109					
1,2,3,4,7,8,9-HpCDF	1.0	0.99	99					
Total HpCDF								
1,2,3,4,6,7,8-HpCDD	1.0	1.1	109					
Total HpCDD								
OCDF	2.0	2.2	109	Y				
OCDD	2.0	2.4	121					

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-16514-1
Client Project/Site: Advanced Technology Laboratories

For:
Advanced Technology Laboratories
3151-3153 W Post Road
Las Vegas, Nevada 89118

Attn: Marlon Cartin

Authorized for release by:
3/25/2016 12:07:28 PM

Ivan Vania, Project Manager II
(314)298-8566
ivan.vania@testamericainc.com

Table of Contents

Job ID: 160-16514-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Advanced Technology Laboratories

Project: Advanced Technology Laboratories

Report Number: 160-16514-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 3/11/2016 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4º C.

METALS (ICPMS)

Sample N019043-001K / NERT-SO/NERT STORM WATER (160-16514-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 03/16/2016 and analyzed on 03/22/2016.

Preparation Batch 160-240705, Analytical Batch 160-241427:
The following samples were diluted due to the abundance of non-target analytes: N019043-001K / NERT-SO/NERT STORM WATER (160-16514-1). Elevated reporting limits (RLs) are provided.

The MS/MSD was analyzed on a different job within the prep batch. The sample chosen for batch QC had a different analyte list. As a result, the MS/MSD was not analyzed for platinum. N019043-001K / NERT-SO/NERT STORM WATER (160-16514-1) Method performance is demonstrated by acceptable LCS recovery.

Job ID: 160-16514-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following samples were diluted due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: (160-16474-A-3-A), (160-16474-A-3-B MS), (160-16474-A-3-C MSD) and (160-16474-A-3-A SD). Elevated reporting limits (RLs) are provided.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Sample N019043-001K / NERT-SO/NERT STORM WATER (160-16514-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 03/15/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Test America
13715 Rider Trail North
Earth City, MO 63045

TEL: 314.298-8566
FAX:
Acct #:

Field Sampler: Kristopher Everett

10-Mar-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 6010B		
N019043-001K / NERT-SO/NERT Storm Water	Solid	3/9/2016 11:37:00 AM	4OZG	1		

160-16514 Chain of Custody

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#:N19043C Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 2 Day TAT

Please analyze for Platinum by 6010.

		Date/Time		Date/Time
Relinquished by:	[illegible]	3/10/16 1700	**Received by:**	~~Fedex~~: 7758 4879 6205
Relinquished by:	FEDEX		**Received by:**	C McKs 031116 1030

Login Sample Receipt Checklist

Client: Advanced Technology Laboratories

Job Number: 160-16514-1

Login Number: 16514
List Number: 1
Creator: McKinney, Gerrod E

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Advanced Technology Laboratories
Project/Site: Advanced Technology Laboratories

TestAmerica Job ID: 160-16514-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Advanced Technology Laboratories
Project/Site: Advanced Technology Laboratories

TestAmerica Job ID: 160-16514-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-16514-1	N019043-001K / NERT-SO/NERT STORM WATER	Solid	03/09/16 11:37	03/11/16 10:30

Client: Advanced Technology Laboratories
Project/Site: Advanced Technology Laboratories

TestAmerica Job ID: 160-16514-1

Client Sample ID: N019043-001K / NERT-SO/NERT STORM WATER

Lab Sample ID: 160-16514-1

Date Collected: 03/09/16 11:37

Matrix: Solid

Date Received: 03/11/16 10:30

Percent Solids: 80.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.4	1.0	mg/Kg	☼	03/16/16 09:22	03/22/16 04:23	100

QC Sample Results

Client: Advanced Technology Laboratories
Project/Site: Advanced Technology Laboratories

TestAmerica Job ID: 160-16514-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-240705/1-A
Matrix: Solid
Analysis Batch: 241427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		0.091	0.017	mg/Kg		03/16/16 09:22	03/22/16 02:56	2

Lab Sample ID: LCS 160-240705/2-A
Matrix: Solid
Analysis Batch: 241427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Platinum	0.898	0.900		mg/Kg		100	80 - 120

QC Association Summary

Client: Advanced Technology Laboratories
Project/Site: Advanced Technology Laboratories

TestAmerica Job ID: 160-16514-1

Metals

Prep Batch: 240705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16514-1	N019043-001K / NERT-SO/NERT STORM WATE	Total/NA	Solid	3050B	
LCS 160-240705/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-240705/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 241427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16514-1	N019043-001K / NERT-SO/NERT STORM WATE	Total/NA	Solid	6020A	240705
LCS 160-240705/2-A	Lab Control Sample	Total/NA	Solid	6020A	240705
MB 160-240705/1-A	Method Blank	Total/NA	Solid	6020A	240705

General Chemistry

Analysis Batch: 240470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16514-1	N019043-001K / NERT-SO/NERT STORM WATE	Total/NA	Solid	Moisture	

April 15, 2016

John Pekala
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

TEL:
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N019342

RE: NERT, 2138800A, F07

Attention: John Pekala

Enclosed are the results for sample(s) received on April 06, 2016 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Glen Gesmundo
QA Manager

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Subcontracted Analyses:

EPA 8290 was subcontracted to PACE Analytical Services, Inc.-Minneapolis, MN.

Platinum was subcontracted to ALS Global.

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019342-001D-MS and N019342-001D-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 7199:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019314-001B-MS and N019314-001B-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8015B DRO/ORO:

Matrix Spike (MS) is outside recovery criteria on QC sample N019387-002C-MS possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8082:

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Decachlorobiphenyl surrogate recovery biased high for sample N019342-008A possibly due to matrix interferences. Sample contains peaks that interferes with surrogate peak. The other surrogate Tetrachloro-m-xylene was recovered within limit.

Analytical Comments for EPA 8270C:

2,4,6-Tribromophenol surrogate recovery biased high for sample N019342-004A possibly due to matrix interferences. The other surrogates were recovered within limit.

ASSET Laboratories

Date: *15-Apr-16*

CLIENT: Ramboll Environ
Project: NERT, 2138800A, F07
Lab Order: N019342
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N019342-001A	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-001B	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-001C	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-001D	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-001E	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-001F	TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	4/6/2016	4/15/2016
N019342-002A	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-002B	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-002C	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-002D	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-002E	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-002F	TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	4/6/2016	4/15/2016
N019342-003A	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-003B	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-003C	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-003D	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-003E	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-003F	SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	4/6/2016	4/15/2016
N019342-004A	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-004B	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-004C	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-004D	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-004E	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-004F	SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	4/6/2016	4/15/2016
N019342-005A	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016
N019342-005B	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016
N019342-005C	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016
N019342-005D	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016
N019342-005E	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES
CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

CLIENT: Ramboll Environ
Project: NERT, 2138800A, F07
Lab Order: N019342
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N019342-005F	SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	4/6/2016	4/15/2016
N019342-006A	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-006B	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-006C	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-006D	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-006E	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-006F	SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	4/6/2016	4/15/2016
N019342-007A	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-007B	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-007C	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-007D	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-007E	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-007F	SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	4/6/2016	4/15/2016
N019342-008A	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016
N019342-008B	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016
N019342-008C	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016
N019342-008D	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016
N019342-008E	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016
N019342-008F	SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	4/6/2016	4/15/2016

ASSET LABORATORIES
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CALIFORNIA
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P: 562.219.7435 F: 562.219.7436
NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
N019342-001	**TR-SIDEWALL-20160406**					
Hexavalent Chromium	2.0	0.20		mg/Kg	1	EPA 7199
Perchlorate	31000	2000		µg/Kg	100	EPA 314(M)
Mercury	0.18	0.10		mg/Kg	1	EPA 7471A
Arsenic	31	1.0		mg/Kg	1	EPA 6010B
Barium	1100	1.0		mg/Kg	1	EPA 6010B
Cadmium	1.3	1.0		mg/Kg	1	EPA 6010B
Chromium	29	1.0		mg/Kg	1	EPA 6010B
Lead	320	1.0		mg/Kg	1	EPA 6010B
Magnesium	12000	10		mg/Kg	1	EPA 6010B
Manganese	13000	250		mg/Kg	25	EPA 6010B
Selenium	3.7	1.0		mg/Kg	1	EPA 6010B
Titanium	380	75		mg/Kg	5	EPA 6010B
Benzo(a)anthracene	19	5.0		µg/Kg	1	EPA 8270CSIM
Benzo(a)pyrene	15	5.0		µg/Kg	1	EPA 8270CSIM
Benzo(b)fluoranthene	40	5.0		µg/Kg	1	EPA 8270CSIM
Benzo(g,h,i)perylene	6.5	5.0		µg/Kg	1	EPA 8270CSIM
Benzo(k)fluoranthene	12	5.0		µg/Kg	1	EPA 8270CSIM
Chrysene	26	5.0		µg/Kg	1	EPA 8270CSIM
Fluoranthene	99	5.0		µg/Kg	1	EPA 8270CSIM
Indeno(1,2,3-cd)pyrene	6.5	5.0		µg/Kg	1	EPA 8270CSIM
Phenanthrene	87	5.0		µg/Kg	1	EPA 8270CSIM
Pyrene	94	5.0		µg/Kg	1	EPA 8270CSIM
DRO	12	10		mg/Kg	1	EPA 8015B
ORO	16	10		mg/Kg	1	EPA 8015B
N019342-002	**TR-BASE-20160406**					
Arsenic	3.6	1.0		mg/Kg	1	EPA 6010B
Barium	130	1.0		mg/Kg	1	EPA 6010B
Chromium	8.8	1.0		mg/Kg	1	EPA 6010B
Lead	6.5	1.0		mg/Kg	1	EPA 6010B
Magnesium	6200	10		mg/Kg	1	EPA 6010B
Manganese	410	50		mg/Kg	5	EPA 6010B
Titanium	430	75		mg/Kg	5	EPA 6010B
Perchlorate	19000	2000		µg/Kg	100	EPA 314(M)

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

SUMMARY OF DETECTS

Print Date: *15-Apr-16*

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
N019342-003	**SO-SW-NORTH-20160406**					
Mercury	1.4	0.099		mg/Kg	1	EPA 7471A
Arsenic	430	1.0		mg/Kg	1	EPA 6010B
Barium	4400	1.0		mg/Kg	1	EPA 6010B
Cadmium	3.8	1.0		mg/Kg	1	EPA 6010B
Chromium	150	1.0		mg/Kg	1	EPA 6010B
Lead	1400	1.0		mg/Kg	1	EPA 6010B
Magnesium	1500	10		mg/Kg	1	EPA 6010B
Manganese	180000	5000		mg/Kg	500	EPA 6010B
Selenium	45	1.0		mg/Kg	1	EPA 6010B
Silver	20	1.0		mg/Kg	1	EPA 6010B
Titanium	480	75		mg/Kg	5	EPA 6010B
Hexavalent Chromium	52	2.0		mg/Kg	10	EPA 7199
Perchlorate	5000	1000		µg/Kg	50	EPA 314(M)
Benzo(a)anthracene	26	5.0		µg/Kg	1	EPA 8270CSIM
Benzo(b)fluoranthene	70	50		µg/Kg	10	EPA 8270CSIM
Chrysene	27	5.0		µg/Kg	1	EPA 8270CSIM
Fluoranthene	53	5.0		µg/Kg	1	EPA 8270CSIM
Phenanthrene	19	5.0		µg/Kg	1	EPA 8270CSIM
Pyrene	46	5.0		µg/Kg	1	EPA 8270CSIM
DRO	150	10		mg/Kg	1	EPA 8015B
ORO	190	10		mg/Kg	1	EPA 8015B
Aroclor 1260	1400	160		µg/Kg	10	EPA 8082
N019342-004	**SO-SW-SOUTH-20160406**					
Perchlorate	100	20		µg/Kg	1	EPA 314(M)
Arsenic	4.7	1.0		mg/Kg	1	EPA 6010B
Barium	160	1.0		mg/Kg	1	EPA 6010B
Chromium	13	1.0		mg/Kg	1	EPA 6010B
Lead	7.6	1.0		mg/Kg	1	EPA 6010B
Magnesium	9100	10		mg/Kg	1	EPA 6010B
Manganese	7000	250		mg/Kg	25	EPA 6010B
Selenium	1.1	1.0		mg/Kg	1	EPA 6010B
Titanium	430	75		mg/Kg	5	EPA 6010B

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
N019342-005	**SO-SW-WEST01-20160406**					
Perchlorate	110	20		µg/Kg	1	EPA 314(M)
Arsenic	4.8	1.0		mg/Kg	1	EPA 6010B
Barium	160	1.0		mg/Kg	1	EPA 6010B
Chromium	13	1.0		mg/Kg	1	EPA 6010B
Lead	5.8	1.0		mg/Kg	1	EPA 6010B
Magnesium	9400	10		mg/Kg	1	EPA 6010B
Manganese	1400	50		mg/Kg	5	EPA 6010B
Titanium	480	75		mg/Kg	5	EPA 6010B
N019342-006	**SO-SW-WEST02-20160406**					
Arsenic	3.6	1.0		mg/Kg	1	EPA 6010B
Barium	170	1.0		mg/Kg	1	EPA 6010B
Chromium	9.6	1.0		mg/Kg	1	EPA 6010B
Lead	7.4	1.0		mg/Kg	1	EPA 6010B
Magnesium	5700	10		mg/Kg	1	EPA 6010B
Manganese	520	50		mg/Kg	5	EPA 6010B
Titanium	460	75		mg/Kg	5	EPA 6010B
Perchlorate	690	100		µg/Kg	5	EPA 314(M)
N019342-007	**SO-BASE01-20160406**					
Arsenic	5.1	1.0		mg/Kg	1	EPA 6010B
Barium	130	1.0		mg/Kg	1	EPA 6010B
Chromium	14	1.0		mg/Kg	1	EPA 6010B
Lead	6.0	1.0		mg/Kg	1	EPA 6010B
Magnesium	7500	10		mg/Kg	1	EPA 6010B
Manganese	9800	250		mg/Kg	25	EPA 6010B
Selenium	2.4	1.0		mg/Kg	1	EPA 6010B
Titanium	410	75		mg/Kg	5	EPA 6010B
Hexavalent Chromium	0.21	0.20		mg/Kg	1	EPA 7199
Perchlorate	120	20		µg/Kg	1	EPA 314(M)
N019342-008	**SO-BASE02-20160406**					
Mercury	0.14	0.099		mg/Kg	1	EPA 7471A
Arsenic	12	1.0		mg/Kg	1	EPA 6010B

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

SUMMARY OF DETECTS

Print Date: *15-Apr-16*

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07

Lab ID / Client Sample ID / Analyses	Result	PQL	Qual	Units	DF	Test No
Barium	380	1.0		mg/Kg	1	EPA 6010B
Chromium	27	1.0		mg/Kg	1	EPA 6010B
Lead	82	1.0		mg/Kg	1	EPA 6010B
Magnesium	6700	10		mg/Kg	1	EPA 6010B
Manganese	20000	500		mg/Kg	50	EPA 6010B
Selenium	8.8	1.0		mg/Kg	1	EPA 6010B
Silver	1.2	1.0		mg/Kg	1	EPA 6010B
Titanium	440	75		mg/Kg	5	EPA 6010B
Hexachlorobenzene	1200	330		µg/Kg	1	EPA 8270C
Hexavalent Chromium	2.6	0.20		mg/Kg	1	EPA 7199
Perchlorate	770	100		µg/Kg	5	EPA 314(M)

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-001

Client Sample ID: TR-SIDEWALL-20160406
Collection Date: 4/6/2016 8:45:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2-Chlorophenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2-Methylphenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
2-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
2-Nitrophenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/13/2016 01:16 AM
3-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 01:16 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/13/2016 01:16 AM
4-Chloroaniline	ND	660		µg/Kg	1	4/13/2016 01:16 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 01:16 AM
3/4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
4-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
4-Nitrophenol	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
Acenaphthene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Acenaphthylene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Anthracene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/13/2016 01:16 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/13/2016 01:16 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-001

Client Sample ID: TR-SIDEWALL-20160406
Collection Date: 4/6/2016 8:45:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/13/2016 01:16 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Chrysene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/13/2016 01:16 AM
Dibenzofuran	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Diethylphthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Dimethylphthalate	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Fluoranthene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Fluorene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Hexachlorobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/13/2016 01:16 AM
Hexachloroethane	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Isophorone	ND	330		µg/Kg	1	4/13/2016 01:16 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/13/2016 01:16 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Naphthalene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Nitrobenzene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Pentachlorophenol	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
Phenanthrene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Phenol	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Pyrene	ND	330		µg/Kg	1	4/13/2016 01:16 AM
Pyridine	ND	1600		µg/Kg	1	4/13/2016 01:16 AM
Surr: 1,2-Dichlorobenzene-d4	81.2	21-120		%REC	1	4/13/2016 01:16 AM
Surr: 2,4,6-Tribromophenol	90.3	25-129		%REC	1	4/13/2016 01:16 AM
Surr: 2-Chlorophenol-d4	87.1	24-120		%REC	1	4/13/2016 01:16 AM
Surr: 2-Fluorobiphenyl	89.6	33-120		%REC	1	4/13/2016 01:16 AM
Surr: 2-Fluorophenol	84.1	21-120		%REC	1	4/13/2016 01:16 AM
Surr: 4-Terphenyl-d14	101	37-135		%REC	1	4/13/2016 01:16 AM
Surr: Nitrobenzene-d5	86.2	26-120		%REC	1	4/13/2016 01:16 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	TR-SIDEWALL-20160406
Lab Order:	N019342	**Collection Date:**	4/6/2016 8:45:00 AM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019342-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	85.9	25-120		%REC	1	4/13/2016 01:16 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Benzo(a)anthracene	19	5.0		µg/Kg	1	4/10/2016 09:34 PM
Benzo(a)pyrene	15	5.0		µg/Kg	1	4/10/2016 09:34 PM
Benzo(b)fluoranthene	40	5.0		µg/Kg	1	4/10/2016 09:34 PM
Benzo(g,h,i)perylene	6.5	5.0		µg/Kg	1	4/10/2016 09:34 PM
Benzo(k)fluoranthene	12	5.0		µg/Kg	1	4/10/2016 09:34 PM
Chrysene	26	5.0		µg/Kg	1	4/10/2016 09:34 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Fluoranthene	99	5.0		µg/Kg	1	4/10/2016 09:34 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Indeno(1,2,3-cd)pyrene	6.5	5.0		µg/Kg	1	4/10/2016 09:34 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 09:34 PM
Phenanthrene	87	5.0		µg/Kg	1	4/10/2016 09:34 PM
Pyrene	94	5.0		µg/Kg	1	4/10/2016 09:34 PM
Surr: 1,2-Dichlorobenzene-d4	69.0	20-112		%REC	1	4/10/2016 09:34 PM
Surr: 2-Fluorobiphenyl	72.0	29-118		%REC	1	4/10/2016 09:34 PM
Surr: 4-Terphenyl-d14	83.0	23-136		%REC	1	4/10/2016 09:34 PM
Surr: Nitrobenzene-d5	80.0	28-122		%REC	1	4/10/2016 09:34 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	12	10		mg/Kg	1	4/8/2016 06:49 PM
ORO	16	10		mg/Kg	1	4/8/2016 06:49 PM
Surr: p-Terphenyl	96.3	38-152		%REC	1	4/8/2016 06:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-001

Client Sample ID: TR-SIDEWALL-20160406
Collection Date: 4/6/2016 8:45:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 09:59 PM
Surr: Decachlorobiphenyl	130	34-147		%REC	1	4/11/2016 09:59 PM
Surr: Tetrachloro-m-xylene	76.6	30-118		%REC	1	4/11/2016 09:59 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 12:18 PM
Surr: Chlorobenzene - d5	120	46-154		%REC	1	4/11/2016 12:18 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	2.0	0.20		mg/Kg	1	4/12/2016 03:33 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	31000	2000		µg/Kg	100	4/11/2016 03:01 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	0.18	0.10		mg/Kg	1	4/9/2016 09:23 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	31	1.0		mg/Kg	1	4/9/2016 07:29 PM
Barium	1100	1.0		mg/Kg	1	4/9/2016 07:29 PM
Cadmium	1.3	1.0		mg/Kg	1	4/9/2016 07:29 PM
Chromium	29	1.0		mg/Kg	1	4/9/2016 07:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-001

Client Sample ID: TR-SIDEWALL-20160406
Collection Date: 4/6/2016 8:45:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	320	1.0		mg/Kg	1	4/9/2016 07:29 PM
Magnesium	12000	10		mg/Kg	1	4/9/2016 07:29 PM
Manganese	13000	250		mg/Kg	25	4/11/2016 04:30 AM
Selenium	3.7	1.0		mg/Kg	1	4/9/2016 07:29 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 07:29 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	380	75		mg/Kg	5	4/11/2016 04:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-002

Client Sample ID: TR-BASE-20160406
Collection Date: 4/6/2016 8:50:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 04:09 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 04:09 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 04:09 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 04:09 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 04:09 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 04:09 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:09 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-002

Client Sample ID: TR-BASE-20160406
Collection Date: 4/6/2016 8:50:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 04:09 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 04:09 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 04:09 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 04:09 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 04:09 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 04:09 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 04:09 PM
Surr: 1,2-Dichlorobenzene-d4	79.7	21-120		%REC	1	4/12/2016 04:09 PM
Surr: 2,4,6-Tribromophenol	77.1	25-129		%REC	1	4/12/2016 04:09 PM
Surr: 2-Chlorophenol-d4	84.9	24-120		%REC	1	4/12/2016 04:09 PM
Surr: 2-Fluorobiphenyl	83.3	33-120		%REC	1	4/12/2016 04:09 PM
Surr: 2-Fluorophenol	82.8	21-120		%REC	1	4/12/2016 04:09 PM
Surr: 4-Terphenyl-d14	92.6	37-135		%REC	1	4/12/2016 04:09 PM
Surr: Nitrobenzene-d5	84.7	26-120		%REC	1	4/12/2016 04:09 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-002

Client Sample ID: TR-BASE-20160406
Collection Date: 4/6/2016 8:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	82.6	25-120		%REC	1	4/12/2016 04:09 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 01:40 PM
Surr: 1,2-Dichlorobenzene-d4	63.0	20-112		%REC	1	4/10/2016 01:40 PM
Surr: 2-Fluorobiphenyl	62.0	29-118		%REC	1	4/10/2016 01:40 PM
Surr: 4-Terphenyl-d14	70.0	23-136		%REC	1	4/10/2016 01:40 PM
Surr: Nitrobenzene-d5	57.0	28-122		%REC	1	4/10/2016 01:40 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/8/2016 07:15 PM
ORO	ND	10		mg/Kg	1	4/8/2016 07:15 PM
Surr: p-Terphenyl	94.2	38-152		%REC	1	4/8/2016 07:15 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Apr-16*

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-002

Client Sample ID: TR-BASE-20160406
Collection Date: 4/6/2016 8:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 10:22 PM
Surr: Decachlorobiphenyl	71.2	34-147		%REC	1	4/11/2016 10:22 PM
Surr: Tetrachloro-m-xylene	71.4	30-118		%REC	1	4/11/2016 10:22 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 12:51 PM
Surr: Chlorobenzene - d5	120	46-154		%REC	1	4/11/2016 12:51 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/12/2016 03:55 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	19000	2000		µg/Kg	100	4/11/2016 03:20 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:31 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	3.6	1.0		mg/Kg	1	4/9/2016 08:10 PM
Barium	130	1.0		mg/Kg	1	4/9/2016 08:10 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 08:10 PM
Chromium	8.8	1.0		mg/Kg	1	4/9/2016 08:10 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-002

Client Sample ID: TR-BASE-20160406
Collection Date: 4/6/2016 8:50:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	6.5	1.0		mg/Kg	1	4/9/2016 08:10 PM
Magnesium	6200	10		mg/Kg	1	4/9/2016 08:10 PM
Manganese	410	50		mg/Kg	5	4/11/2016 05:32 AM
Selenium	ND	1.0		mg/Kg	1	4/9/2016 08:10 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 08:10 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	430	75		mg/Kg	5	4/11/2016 05:32 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-003

Client Sample ID: SO-SW-NORTH-20160406
Collection Date: 4/6/2016 12:07:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2-Chlorophenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
2-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
2-Nitrophenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/13/2016 03:28 AM
3-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 03:28 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/13/2016 03:28 AM
4-Chloroaniline	ND	660		µg/Kg	1	4/13/2016 03:28 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 03:28 AM
3/4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
4-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
4-Nitrophenol	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
Acenaphthene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Acenaphthylene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Anthracene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Benzo(a)pyrene	ND	2000		µg/Kg	10	4/13/2016 12:50 AM
Benzo(b)fluoranthene	ND	3300		µg/Kg	10	4/13/2016 12:50 AM
Benzo(g,h,i)perylene	ND	3300		µg/Kg	10	4/13/2016 12:50 AM
Benzo(k)fluoranthene	ND	3300		µg/Kg	10	4/13/2016 12:50 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-003

Client Sample ID: SO-SW-NORTH-20160406
Collection Date: 4/6/2016 12:07:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/13/2016 03:28 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Chrysene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Di-n-octylphthalate	ND	3300		µg/Kg	10	4/13/2016 12:50 AM
Dibenz(a,h)anthracene	ND	2000		µg/Kg	10	4/13/2016 12:50 AM
Dibenzofuran	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Diethylphthalate	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Dimethylphthalate	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Fluoranthene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Fluorene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Hexachlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/13/2016 03:28 AM
Hexachloroethane	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Indeno(1,2,3-cd)pyrene	ND	3300		µg/Kg	10	4/13/2016 12:50 AM
Isophorone	ND	330		µg/Kg	1	4/13/2016 03:28 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/13/2016 03:28 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Naphthalene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Nitrobenzene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Pentachlorophenol	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
Phenanthrene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Phenol	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Pyrene	ND	330		µg/Kg	1	4/13/2016 03:28 AM
Pyridine	ND	1600		µg/Kg	1	4/13/2016 03:28 AM
Surr: 1,2-Dichlorobenzene-d4	78.0	21-120		%REC	1	4/13/2016 03:28 AM
Surr: 2,4,6-Tribromophenol	86.2	25-129		%REC	1	4/13/2016 03:28 AM
Surr: 2-Chlorophenol-d4	78.4	24-120		%REC	1	4/13/2016 03:28 AM
Surr: 2-Fluorobiphenyl	85.6	33-120		%REC	1	4/13/2016 03:28 AM
Surr: 2-Fluorophenol	71.7	21-120		%REC	1	4/13/2016 03:28 AM
Surr: 4-Terphenyl-d14	98.1	37-135		%REC	1	4/13/2016 03:28 AM
Surr: Nitrobenzene-d5	82.2	26-120		%REC	1	4/13/2016 03:28 AM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-003

Client Sample ID: SO-SW-NORTH-20160406
Collection Date: 4/6/2016 12:07:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	77.3	25-120		%REC	1	4/13/2016 03:28 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Benzo(a)anthracene	26	5.0		µg/Kg	1	4/10/2016 10:01 PM
Benzo(a)pyrene	ND	50		µg/Kg	10	4/10/2016 08:10 PM
Benzo(b)fluoranthene	70	50		µg/Kg	10	4/10/2016 08:10 PM
Benzo(g,h,i)perylene	ND	50		µg/Kg	10	4/10/2016 08:10 PM
Benzo(k)fluoranthene	ND	50		µg/Kg	10	4/10/2016 08:10 PM
Chrysene	27	5.0		µg/Kg	1	4/10/2016 10:01 PM
Dibenz(a,h)anthracene	ND	50		µg/Kg	10	4/10/2016 08:10 PM
Fluoranthene	53	5.0		µg/Kg	1	4/10/2016 10:01 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/Kg	10	4/10/2016 08:10 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 10:01 PM
Phenanthrene	19	5.0		µg/Kg	1	4/10/2016 10:01 PM
Pyrene	46	5.0		µg/Kg	1	4/10/2016 10:01 PM
Surr: 1,2-Dichlorobenzene-d4	67.0	20-112		%REC	1	4/10/2016 10:01 PM
Surr: 2-Fluorobiphenyl	72.0	29-118		%REC	1	4/10/2016 10:01 PM
Surr: 4-Terphenyl-d14	84.0	23-136		%REC	1	4/10/2016 10:01 PM
Surr: Nitrobenzene-d5	78.0	28-122		%REC	1	4/10/2016 10:01 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	150	10		mg/Kg	1	4/8/2016 07:40 PM
ORO	190	10		mg/Kg	1	4/8/2016 07:40 PM
Surr: p-Terphenyl	98.5	38-152		%REC	1	4/8/2016 07:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	SO-SW-NORTH-20160406
Lab Order:	N019342	**Collection Date:**	4/6/2016 12:07:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019342-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
EPA 3546				**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 10:44 PM
Aroclor 1260	1400	160		µg/Kg	10	4/12/2016 12:31 PM
Surr: Decachlorobiphenyl	91.7	34-147		%REC	1	4/11/2016 10:44 PM
Surr: Tetrachloro-m-xylene	68.1	30-118		%REC	1	4/11/2016 10:44 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 01:25 PM
Surr: Chlorobenzene - d5	115	46-154		%REC	1	4/11/2016 01:25 PM
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	52	2.0		mg/Kg	10	4/12/2016 04:18 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	5000	1000		µg/Kg	50	4/12/2016 03:55 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	1.4	0.099		mg/Kg	1	4/9/2016 09:39 AM
TOTAL METALS BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	430	1.0		mg/Kg	1	4/11/2016 05:38 AM
Barium	4400	1.0		mg/Kg	1	4/11/2016 05:38 AM
Cadmium	3.8	1.0		mg/Kg	1	4/11/2016 05:38 AM
Chromium	150	1.0		mg/Kg	1	4/11/2016 05:38 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-003

Client Sample ID: SO-SW-NORTH-20160406
Collection Date: 4/6/2016 12:07:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	1400	1.0		mg/Kg	1	4/11/2016 05:38 AM
Magnesium	1500	10		mg/Kg	1	4/11/2016 05:38 AM
Manganese	180000	5000		mg/Kg	500	4/13/2016 02:12 PM
Selenium	45	1.0		mg/Kg	1	4/11/2016 05:38 AM
Silver	20	1.0		mg/Kg	1	4/11/2016 05:38 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	480	75		mg/Kg	5	4/11/2016 12:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-004

Client Sample ID: SO-SW-SOUTH-20160406
Collection Date: 4/6/2016 10:02:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
2-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 12:30 PM
3-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 12:30 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 12:30 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 12:30 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 12:30 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
4-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
4-Nitrophenol	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 12:30 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:30 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-004

Client Sample ID: SO-SW-SOUTH-20160406
Collection Date: 4/6/2016 10:02:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 12:30 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 12:30 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 12:30 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 12:30 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 12:30 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Pentachlorophenol	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 12:30 PM
Pyridine	ND	1700		µg/Kg	1	4/12/2016 12:30 PM
Surr: 1,2-Dichlorobenzene-d4	69.4	21-120		%REC	1	4/12/2016 12:30 PM
Surr: 2,4,6-Tribromophenol	21.0	25-129	S	%REC	1	4/12/2016 12:30 PM
Surr: 2-Chlorophenol-d4	58.5	24-120		%REC	1	4/12/2016 12:30 PM
Surr: 2-Fluorobiphenyl	80.7	33-120		%REC	1	4/12/2016 12:30 PM
Surr: 2-Fluorophenol	51.3	21-120		%REC	1	4/12/2016 12:30 PM
Surr: 4-Terphenyl-d14	83.5	37-135		%REC	1	4/12/2016 12:30 PM
Surr: Nitrobenzene-d5	78.5	26-120		%REC	1	4/12/2016 12:30 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-004

Client Sample ID: SO-SW-SOUTH-20160406
Collection Date: 4/6/2016 10:02:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	62.6	25-120		%REC	1	4/12/2016 12:30 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:04 PM
Surr: 1,2-Dichlorobenzene-d4	69.0	20-112		%REC	1	4/10/2016 03:04 PM
Surr: 2-Fluorobiphenyl	67.0	29-118		%REC	1	4/10/2016 03:04 PM
Surr: 4-Terphenyl-d14	72.0	23-136		%REC	1	4/10/2016 03:04 PM
Surr: Nitrobenzene-d5	65.0	28-122		%REC	1	4/10/2016 03:04 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/8/2016 08:06 PM
ORO	ND	10		mg/Kg	1	4/8/2016 08:06 PM
Surr: p-Terphenyl	96.2	38-152		%REC	1	4/8/2016 08:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-004

Client Sample ID: SO-SW-SOUTH-20160406
Collection Date: 4/6/2016 10:02:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1232	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1242	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1248	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1254	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Aroclor 1260	ND	17		µg/Kg	1	4/11/2016 11:07 PM
Surr: Decachlorobiphenyl	71.8	34-147		%REC	1	4/11/2016 11:07 PM
Surr: Tetrachloro-m-xylene	68.0	30-118		%REC	1	4/11/2016 11:07 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 01:59 PM
Surr: Chlorobenzene - d5	122	46-154		%REC	1	4/11/2016 01:59 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/12/2016 04:41 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	100	20		µg/Kg	1	4/11/2016 11:11 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:42 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	4.7	1.0		mg/Kg	1	4/9/2016 08:24 PM
Barium	160	1.0		mg/Kg	1	4/9/2016 08:24 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 08:24 PM
Chromium	13	1.0		mg/Kg	1	4/9/2016 08:24 PM

Qualifiers:

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S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-004

Client Sample ID: SO-SW-SOUTH-20160406
Collection Date: 4/6/2016 10:02:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	7.6	1.0		mg/Kg	1	4/9/2016 08:24 PM
Magnesium	9100	10		mg/Kg	1	4/9/2016 08:24 PM
Manganese	7000	250		mg/Kg	25	4/11/2016 05:59 AM
Selenium	1.1	1.0		mg/Kg	1	4/9/2016 08:24 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 08:24 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	430	75		mg/Kg	5	4/11/2016 05:53 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-005

Client Sample ID: SO-SW-WEST01-20160406
Collection Date: 4/6/2016 8:08:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
2-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 12:57 PM
3-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 12:57 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 12:57 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 12:57 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 12:57 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
4-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
4-Nitrophenol	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 12:57 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:57 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-005

Client Sample ID: SO-SW-WEST01-20160406
Collection Date: 4/6/2016 8:08:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 12:57 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 12:57 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 12:57 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 12:57 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 12:57 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Pentachlorophenol	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 12:57 PM
Pyridine	ND	1700		µg/Kg	1	4/12/2016 12:57 PM
Surr: 1,2-Dichlorobenzene-d4	75.0	21-120		%REC	1	4/12/2016 12:57 PM
Surr: 2,4,6-Tribromophenol	74.3	25-129		%REC	1	4/12/2016 12:57 PM
Surr: 2-Chlorophenol-d4	80.8	24-120		%REC	1	4/12/2016 12:57 PM
Surr: 2-Fluorobiphenyl	79.7	33-120		%REC	1	4/12/2016 12:57 PM
Surr: 2-Fluorophenol	78.7	21-120		%REC	1	4/12/2016 12:57 PM
Surr: 4-Terphenyl-d14	91.2	37-135		%REC	1	4/12/2016 12:57 PM
Surr: Nitrobenzene-d5	78.2	26-120		%REC	1	4/12/2016 12:57 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-005

Client Sample ID: SO-SW-WEST01-20160406
Collection Date: 4/6/2016 8:08:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	79.8	25-120		%REC	1	4/12/2016 12:57 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 03:32 PM
Surr: 1,2-Dichlorobenzene-d4	73.0	20-112		%REC	1	4/10/2016 03:32 PM
Surr: 2-Fluorobiphenyl	71.0	29-118		%REC	1	4/10/2016 03:32 PM
Surr: 4-Terphenyl-d14	70.0	23-136		%REC	1	4/10/2016 03:32 PM
Surr: Nitrobenzene-d5	68.0	28-122		%REC	1	4/10/2016 03:32 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/8/2016 08:31 PM
ORO	ND	10		mg/Kg	1	4/8/2016 08:31 PM
Surr: p-Terphenyl	97.1	38-152		%REC	1	4/8/2016 08:31 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	SO-SW-WEST01-20160406
Lab Order:	N019342	**Collection Date:**	4/6/2016 8:08:00 AM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019342-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
EPA 3546				**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 11:29 PM
Surr: Decachlorobiphenyl	64.0	34-147		%REC	1	4/11/2016 11:29 PM
Surr: Tetrachloro-m-xylene	66.5	30-118		%REC	1	4/11/2016 11:29 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 04:17 PM
Surr: Chlorobenzene - d5	112	46-154		%REC	1	4/11/2016 04:17 PM
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/12/2016 05:04 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
EPA 314(M)						
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	110	20		µg/Kg	1	4/11/2016 11:30 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471A						
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:45 AM
TOTAL METALS BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	4.8	1.0		mg/Kg	1	4/9/2016 08:31 PM
Barium	160	1.0		mg/Kg	1	4/9/2016 08:31 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 08:31 PM
Chromium	13	1.0		mg/Kg	1	4/9/2016 08:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-005

Client Sample ID: SO-SW-WEST01-20160406
Collection Date: 4/6/2016 8:08:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	5.8	1.0		mg/Kg	1	4/9/2016 08:31 PM
Magnesium	9400	10		mg/Kg	1	4/9/2016 08:31 PM
Manganese	1400	50		mg/Kg	5	4/11/2016 06:28 AM
Selenium	ND	1.0		mg/Kg	1	4/9/2016 08:31 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 08:31 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	480	75		mg/Kg	5	4/11/2016 06:28 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-006

Client Sample ID: SO-SW-WEST02-20160406
Collection Date: 4/6/2016 11:54:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 01:24 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 01:24 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 01:24 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 01:24 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 01:24 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 01:24 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:24 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-006

Client Sample ID: SO-SW-WEST02-20160406
Collection Date: 4/6/2016 11:54:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 01:24 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 01:24 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 01:24 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 01:24 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 01:24 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 01:24 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 01:24 PM
Surr: 1,2-Dichlorobenzene-d4	82.3	21-120		%REC	1	4/12/2016 01:24 PM
Surr: 2,4,6-Tribromophenol	77.4	25-129		%REC	1	4/12/2016 01:24 PM
Surr: 2-Chlorophenol-d4	87.1	24-120		%REC	1	4/12/2016 01:24 PM
Surr: 2-Fluorobiphenyl	82.8	33-120		%REC	1	4/12/2016 01:24 PM
Surr: 2-Fluorophenol	84.0	21-120		%REC	1	4/12/2016 01:24 PM
Surr: 4-Terphenyl-d14	91.4	37-135		%REC	1	4/12/2016 01:24 PM
Surr: Nitrobenzene-d5	83.9	26-120		%REC	1	4/12/2016 01:24 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-006

Client Sample ID: SO-SW-WEST02-20160406
Collection Date: 4/6/2016 11:54:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	84.9	25-120		%REC	1	4/12/2016 01:24 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:00 PM
Surr: 1,2-Dichlorobenzene-d4	74.0	20-112		%REC	1	4/10/2016 04:00 PM
Surr: 2-Fluorobiphenyl	70.0	29-118		%REC	1	4/10/2016 04:00 PM
Surr: 4-Terphenyl-d14	73.0	23-136		%REC	1	4/10/2016 04:00 PM
Surr: Nitrobenzene-d5	67.0	28-122		%REC	1	4/10/2016 04:00 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	9.9		mg/Kg	1	4/8/2016 08:57 PM
ORO	ND	9.9		mg/Kg	1	4/8/2016 08:57 PM
Surr: p-Terphenyl	98.3	38-152		%REC	1	4/8/2016 08:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Apr-16*

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-006

Client Sample ID: SO-SW-WEST02-20160406
Collection Date: 4/6/2016 11:54:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 11:52 PM
Surr: Decachlorobiphenyl	67.9	34-147		%REC	1	4/11/2016 11:52 PM
Surr: Tetrachloro-m-xylene	67.1	30-118		%REC	1	4/11/2016 11:52 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 04:51 PM
Surr: Chlorobenzene - d5	119	46-154		%REC	1	4/11/2016 04:51 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/13/2016 12:12 AM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	690	100		µg/Kg	5	4/12/2016 02:41 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:48 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	3.6	1.0		mg/Kg	1	4/9/2016 08:38 PM
Barium	170	1.0		mg/Kg	1	4/9/2016 08:38 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 08:38 PM
Chromium	9.6	1.0		mg/Kg	1	4/9/2016 08:38 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-006

Client Sample ID: SO-SW-WEST02-20160406
Collection Date: 4/6/2016 11:54:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	7.4	1.0		mg/Kg	1	4/9/2016 08:38 PM
Magnesium	5700	10		mg/Kg	1	4/9/2016 08:38 PM
Manganese	520	50		mg/Kg	5	4/11/2016 06:34 AM
Selenium	ND	1.0		mg/Kg	1	4/9/2016 08:38 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 08:38 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	460	75		mg/Kg	5	4/11/2016 06:34 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-007

Client Sample ID: SO-BASE01-20160406
Collection Date: 4/6/2016 7:58:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2,4-Dichlorophenol	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
2-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 01:51 PM
3-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 01:51 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 01:51 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 01:51 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 01:51 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
4-Nitroaniline	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
4-Nitrophenol	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 01:51 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:51 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-007

Client Sample ID: SO-BASE01-20160406
Collection Date: 4/6/2016 7:58:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 01:51 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 01:51 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 01:51 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 01:51 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 01:51 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Pentachlorophenol	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 01:51 PM
Pyridine	ND	1700		µg/Kg	1	4/12/2016 01:51 PM
Surr: 1,2-Dichlorobenzene-d4	72.7	21-120		%REC	1	4/12/2016 01:51 PM
Surr: 2,4,6-Tribromophenol	38.2	25-129		%REC	1	4/12/2016 01:51 PM
Surr: 2-Chlorophenol-d4	69.1	24-120		%REC	1	4/12/2016 01:51 PM
Surr: 2-Fluorobiphenyl	72.4	33-120		%REC	1	4/12/2016 01:51 PM
Surr: 2-Fluorophenol	62.0	21-120		%REC	1	4/12/2016 01:51 PM
Surr: 4-Terphenyl-d14	80.8	37-135		%REC	1	4/12/2016 01:51 PM
Surr: Nitrobenzene-d5	73.0	26-120		%REC	1	4/12/2016 01:51 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-007

Client Sample ID: SO-BASE01-20160406
Collection Date: 4/6/2016 7:58:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	69.6	25-120		%REC	1	4/12/2016 01:51 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:27 PM
Surr: 1,2-Dichlorobenzene-d4	71.0	20-112		%REC	1	4/10/2016 04:27 PM
Surr: 2-Fluorobiphenyl	69.0	29-118		%REC	1	4/10/2016 04:27 PM
Surr: 4-Terphenyl-d14	71.0	23-136		%REC	1	4/10/2016 04:27 PM
Surr: Nitrobenzene-d5	66.0	28-122		%REC	1	4/10/2016 04:27 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160412A	QC Batch: 56985			PrepDate:	4/12/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/12/2016 05:44 PM
ORO	ND	10		mg/Kg	1	4/12/2016 05:44 PM
Surr: p-Terphenyl	111	38-152		%REC	1	4/12/2016 05:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-007

Client Sample ID: SO-BASE01-20160406
Collection Date: 4/6/2016 7:58:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1221	ND	33		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1232	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1242	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1248	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1254	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Aroclor 1260	ND	17		µg/Kg	1	4/12/2016 12:15 AM
Surr: Decachlorobiphenyl	71.4	34-147		%REC	1	4/12/2016 12:15 AM
Surr: Tetrachloro-m-xylene	68.8	30-118		%REC	1	4/12/2016 12:15 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 05:24 PM
Surr: Chlorobenzene - d5	116	46-154		%REC	1	4/11/2016 05:24 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	0.21	0.20		mg/Kg	1	4/13/2016 12:35 AM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	120	20		µg/Kg	1	4/12/2016 12:06 AM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:50 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	5.1	1.0		mg/Kg	1	4/9/2016 08:44 PM
Barium	130	1.0		mg/Kg	1	4/9/2016 08:44 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 08:44 PM
Chromium	14	1.0		mg/Kg	1	4/9/2016 08:44 PM

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-007

Client Sample ID: SO-BASE01-20160406
Collection Date: 4/6/2016 7:58:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	6.0	1.0		mg/Kg	1	4/9/2016 08:44 PM
Magnesium	7500	10		mg/Kg	1	4/9/2016 08:44 PM
Manganese	9800	250		mg/Kg	25	4/11/2016 06:47 AM
Selenium	2.4	1.0		mg/Kg	1	4/9/2016 08:44 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 08:44 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	410	75		mg/Kg	5	4/11/2016 06:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-008

Client Sample ID: SO-BASE02-20160406
Collection Date: 4/6/2016 10:55:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 02:18 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 02:18 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 02:18 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 02:18 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 02:18 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 02:18 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:18 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-008

Client Sample ID: SO-BASE02-20160406
Collection Date: 4/6/2016 10:55:00 AM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 02:18 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Chrysene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 02:18 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Hexachlorobenzene	1200	330		µg/Kg	1	4/12/2016 02:18 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 02:18 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 02:18 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 02:18 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 02:18 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 02:18 PM
Surr: 1,2-Dichlorobenzene-d4	78.4	21-120		%REC	1	4/12/2016 02:18 PM
Surr: 2,4,6-Tribromophenol	43.6	25-129		%REC	1	4/12/2016 02:18 PM
Surr: 2-Chlorophenol-d4	69.6	24-120		%REC	1	4/12/2016 02:18 PM
Surr: 2-Fluorobiphenyl	83.0	33-120		%REC	1	4/12/2016 02:18 PM
Surr: 2-Fluorophenol	60.8	21-120		%REC	1	4/12/2016 02:18 PM
Surr: 4-Terphenyl-d14	91.3	37-135		%REC	1	4/12/2016 02:18 PM
Surr: Nitrobenzene-d5	81.8	26-120		%REC	1	4/12/2016 02:18 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-008

Client Sample ID: SO-BASE02-20160406
Collection Date: 4/6/2016 10:55:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Surr: Phenol-d5	73.7	25-120		%REC	1	4/12/2016 02:18 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM						
EPA 3546				**EPA 8270CSIM**		
RunID: MS3_160410A	QC Batch: 56935			PrepDate:	4/8/2016	Analyst: **MDM**
1-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
2-Methylnaphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Acenaphthene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Acenaphthylene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Benzo(a)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Benzo(a)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Benzo(b)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Benzo(g,h,i)perylene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Benzo(k)fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Chrysene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Dibenz(a,h)anthracene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Fluoranthene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Fluorene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Indeno(1,2,3-cd)pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Naphthalene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Phenanthrene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Pyrene	ND	5.0		µg/Kg	1	4/10/2016 04:55 PM
Surr: 1,2-Dichlorobenzene-d4	71.0	20-112		%REC	1	4/10/2016 04:55 PM
Surr: 2-Fluorobiphenyl	73.0	29-118		%REC	1	4/10/2016 04:55 PM
Surr: 4-Terphenyl-d14	77.0	23-136		%REC	1	4/10/2016 04:55 PM
Surr: Nitrobenzene-d5	70.0	28-122		%REC	1	4/10/2016 04:55 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3546				**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	9.9		mg/Kg	1	4/8/2016 09:48 PM
ORO	ND	9.9		mg/Kg	1	4/8/2016 09:48 PM
Surr: p-Terphenyl	96.3	38-152		%REC	1	4/8/2016 09:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Apr-16*

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-008

Client Sample ID: SO-BASE02-20160406
Collection Date: 4/6/2016 10:55:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PCBS BY GC/ECD						
EPA 3546				**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1221	ND	33		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1232	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1242	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1248	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1254	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Aroclor 1260	ND	16		µg/Kg	1	4/12/2016 12:37 AM
Surr: Decachlorobiphenyl	239	34-147	S	%REC	1	4/12/2016 12:37 AM
Surr: Tetrachloro-m-xylene	73.4	30-118		%REC	1	4/12/2016 12:37 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B		
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 05:58 PM
Surr: Chlorobenzene - d5	113	46-154		%REC	1	4/11/2016 05:58 PM
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	2.6	0.20		mg/Kg	1	4/13/2016 12:57 AM
PERCHLORATE BY ION CHROMATOGRAPHY						
				EPA 314(M)		
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	770	100		µg/Kg	5	4/12/2016 03:18 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	0.14	0.099		mg/Kg	1	4/9/2016 09:53 AM
TOTAL METALS BY ICP						
EPA 3050B				**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	12	1.0		mg/Kg	1	4/9/2016 09:01 PM
Barium	380	1.0		mg/Kg	1	4/9/2016 09:01 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 09:01 PM
Chromium	27	1.0		mg/Kg	1	4/9/2016 09:01 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019342
Project: NERT, 2138800A, F07
Lab ID: N019342-008

Client Sample ID: SO-BASE02-20160406
Collection Date: 4/6/2016 10:55:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Lead	82	1.0		mg/Kg	1	4/9/2016 09:01 PM
Magnesium	6700	10		mg/Kg	1	4/9/2016 09:01 PM
Manganese	20000	500		mg/Kg	50	4/11/2016 12:22 PM
Selenium	8.8	1.0		mg/Kg	1	4/9/2016 09:01 PM
Silver	1.2	1.0		mg/Kg	1	4/9/2016 09:01 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	440	75		mg/Kg	5	4/11/2016 06:53 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **MB-R106918**	SampType: **MBLK**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **PBS**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/11/2016**	SeqNo: **2295403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	ND	20									

Sample ID: **LCS-R106918**	SampType: **LCS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **LCSS**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/11/2016**	SeqNo: **2295404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	231.499	20	250.0	0	92.6	85	115				

Sample ID: **N019342-001CDUP**	SampType: **DUP**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/11/2016**	SeqNo: **2295410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	32209.300	2000						30950	3.98	15	

Sample ID: **N019342-001CPS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/11/2016**	SeqNo: **2295413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	40896.700	2000	10000	30950	99.4	80	120				

Sample ID: **N019342-001CPSD**	SampType: **MSD**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/11/2016**	SeqNo: **2295414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	41469.300	2000	10000	30950	105	80	120	40900	1.39	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019342-004CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	206.764	20	100.0	99.90	107	80	120				

Sample ID: **N019342-005CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	219.327	20	100.0	108.1	111	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019342-007CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	211.805	20	100.0	120.1	91.7	80	120				

Sample ID: **N019343-001EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	32044.500	2000	10000	21200	108	80	120				

Sample ID: **N019343-002EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295448**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	6289.760	400	2000	4555	86.7	80	120				

Sample ID: **N019343-003EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	7935.980	400	2000	6144	89.6	80	120				

Sample ID: **N019343-004EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1051.040	100	500.0	572.7	95.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019343-005EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1166.080	100	500.0	691.6	94.9	80	120				

Sample ID: **N019342-002CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	27783.600	2000	10000	19040	87.5	80	120				

Sample ID: **N019342-006CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1201.800	100	500.0	693.3	102	80	120				

Sample ID: **N019342-008CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1265.560	100	500.0	768.1	99.5	80	120				

Sample ID: **N019342-003CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295463**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	9628.450	1000	5000	5029	92.0	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-56941** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **PBS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.139	1.0									
Barium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	0.070	1.0									
Magnesium	ND	10									
Manganese	ND	10									
Selenium	ND	1.0									
Silver	0.020	1.0									

Sample ID: **LCS-56941** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **LCSS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23.044	1.0	25.00	0	92.2	80	120				
Barium	23.967	1.0	25.00	0	95.9	80	120				
Cadmium	23.530	1.0	25.00	0	94.1	80	120				
Chromium	23.702	1.0	25.00	0	94.8	80	120				
Lead	23.822	1.0	25.00	0	95.3	80	120				
Magnesium	487.892	10	500.0	0	97.6	80	120				
Manganese	46.652	10	50.00	0	93.3	80	120				
Selenium	22.718	1.0	25.00	0	90.9	80	120				
Silver	24.597	1.0	25.00	0	98.4	80	120				

Sample ID: **N019342-001D-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.714	1.0	24.94	31.18	86.3	75	125				
Barium	1179.434	1.0	24.94	1072	431	75	125				S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106850**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/9/2016**	SeqNo: **2290764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	22.934	1.0	24.94	1.269	86.9	75	125				
Chromium	55.128	1.0	24.94	29.19	104	75	125				
Lead	338.193	1.0	24.94	322.9	61.2	75	125				S
Magnesium	12460.363	10	498.8	12160	60.6	75	125				S
Selenium	24.885	1.0	24.94	3.696	85.0	75	125				
Silver	15.131	1.0	24.94	0.5024	58.7	75	125				S

Sample ID: **N019342-001D-MSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106850**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/9/2016**	SeqNo: **2290765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.778	1.0	25.03	31.18	86.3	75	125	52.71	0.123	20	
Barium	1183.260	1.0	25.03	1072	444	75	125	1179	0.324	20	S
Cadmium	22.935	1.0	25.03	1.269	86.6	75	125	22.93	0.00435	20	
Chromium	55.294	1.0	25.03	29.19	104	75	125	55.13	0.301	20	
Lead	338.306	1.0	25.03	322.9	61.5	75	125	338.2	0.0335	20	S
Magnesium	12494.582	10	500.5	12160	67.2	75	125	12460	0.274	20	S
Selenium	24.915	1.0	25.03	3.696	84.8	75	125	24.88	0.122	20	
Silver	15.192	1.0	25.03	0.5024	58.7	75	125	15.13	0.404	20	S

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	15317.525	250	49.88	13430	3780	75	125				S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N019342-001D-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	15257.245	250	50.05	13430	3650	75	125	15320	0.394	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S1

Sample ID: **MB-56941** SampType: **MBLK** TestCode: **6010_S1** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **PBS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	0.008	15									

Sample ID: **LCS-56941** SampType: **LCS** TestCode: **6010_S1** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **LCSS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	24.808	15	25.00	0	99.2	80	120				

Sample ID: **N019342-001D-MS** SampType: **MS** TestCode: **6010_S1** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	740.279	75	24.94	379.5	1450	75	125				S

Sample ID: **N019342-001D-MSD** SampType: **MSD** TestCode: **6010_S1** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	741.465	75	25.03	379.5	1450	75	125	740.3	0.160	30	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019314-001B-MS**	SampType: **MS**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	34.301	1.0	3.997	31.52	69.5	75	125				S

Sample ID: **MB-56948**	SampType: **MBLK**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **PBS**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-56948**	SampType: **LCS**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **LCSS**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.720	0.20	4.000	0	93.0	80	120				

Sample ID: **N019314-001BREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	31.515	1.0						31.52	0.0248	20	

Sample ID: **N019314-001B-DUP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	37.250	1.0						31.52	16.7	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019314-001B-MSD**	SampType: **MSD**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	32.886	1.0	3.992	31.52	34.2	75	125	34.30	4.21	20	S

Sample ID: **N019314-001B-MS_I**	SampType: **MS**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	752.925	20	664.6	31.52	109	75	125				

Sample ID: **N019342-001CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.980	0.20						1.959	1.06	20	

Sample ID: **N019342-002CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.084	0.20						0.08562	0	20	

Sample ID: **N019342-003CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	55.417	2.0						51.72	6.90	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019342-004CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.182	0.20						0.1657	0	20	

Sample ID: **N019342-005CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0.1043	0	20	

Sample ID: **N019343-003EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.225	0.20						0.2620	15.3	20	

Sample ID: **N019343-004EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295194**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.745	0.20						5.064	6.50	20	

Sample ID: **N019343-005EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	15.096	0.20						14.76	2.25	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019342-006CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.019	0.20						0.02535	0	20	

Sample ID: **N019342-007CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.195	0.20						0.2099	0	20	

Sample ID: **N019342-008CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.628	0.20						2.623	0.177	20	

Sample ID: **N019343-001EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.000	0.20						0.9825	1.75	20	

Sample ID: **N019343-002EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.284	0.20						0.2797	1.69	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-56924**	SampType: **MBLK**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **PBS**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-56924**	SampType: **LCS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **LCSS**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.439	0.10	0.4167	0	105	80	120				

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **ZZZZZZ**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.609	0.10	0.4146	0.1817	103	75	125				

Sample ID: **N019342-001D-MSD**	SampType: **MSD**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **ZZZZZZ**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.638	0.10	0.4181	0.1817	109	75	125	0.6088	4.70	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DMS_M

Sample ID: **LCS-56934**	SampType: **LCS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106836**
Client ID: **LCSS**	Batch ID: **56934**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/8/2016**	SeqNo: **2289989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1074.864	10	1000	0	107	67	119				
Surr: p-Terphenyl	72.087		80.00		90.1	38	152				

Sample ID: **MB-56934**	SampType: **MBLK**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106836**
Client ID: **PBS**	Batch ID: **56934**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/8/2016**	SeqNo: **2289990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	8.635	10									
ORO	6.717	10									
Surr: p-Terphenyl	79.116		80.00		98.9	38	152				

Sample ID: **N019342-001A-MS**	SampType: **MS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106836**
Client ID: **ZZZZZZ**	Batch ID: **56934**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/9/2016**	SeqNo: **2290011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1036.198	9.9	990.1	12.21	103	46	143				
Surr: p-Terphenyl	69.943		79.21		88.3	38	152				

Sample ID: **N019342-001A-MSD**	SampType: **MSD**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106836**
Client ID: **ZZZZZZ**	Batch ID: **56934**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/9/2016**	SeqNo: **2290012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1034.075	10	997.0	12.21	102	46	143	1036	0.205	20	
Surr: p-Terphenyl	70.332		79.76		88.2	38	152		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DMS_M

Sample ID: **LCS-56985**	SampType: **LCS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/12/2016**	RunNo: **106902**
Client ID: **LCSS**	Batch ID: **56985**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2294059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	993.785	10	1000	0	99.4	67	119				
Surr: p-Terphenyl	77.302		80.00		96.6	38	152				

Sample ID: **MB-56985**	SampType: **MBLK**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/12/2016**	RunNo: **106902**
Client ID: **PBS**	Batch ID: **56985**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2294060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	8.343	10									
ORO	6.265	10									
Surr: p-Terphenyl	80.429		80.00		101	38	152				

Sample ID: **N019387-002C-MS**	SampType: **MS**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/12/2016**	RunNo: **106902**
Client ID: **ZZZZZZ**	Batch ID: **56985**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2294063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1806.527	9.9	990.1	1488	32.1	46	143				S
Surr: p-Terphenyl	66.050		79.21		83.4	38	152				

Sample ID: **N019387-002C-MSD**	SampType: **MSD**	TestCode: **8015DMS_M**	Units: **mg/Kg**	Prep Date: **4/12/2016**	RunNo: **106902**
Client ID: **ZZZZZZ**	Batch ID: **56985**	TestNo: **EPA 8015B**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2294064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	2091.720	9.9	990.1	1488	61.0	46	143	1807	14.6	20	
Surr: p-Terphenyl	71.140		79.21		89.8	38	152		0		

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E160411LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **LCSS** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.087	1.0	5.000	0	102	70	137				
Surr: Chlorobenzene - d5	107.634		100.0		108	46	154				

Sample ID: **E160411MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **PBS** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.068	1.0									
Surr: Chlorobenzene - d5	112.322		100.0		112	46	154				

Sample ID: **N019362-001AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **ZZZZZZ** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.137	1.0	5.000	0.06600	101	46	155				
Surr: Chlorobenzene - d5	106.801		100.0		107	46	154				

Sample ID: **N019362-001AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **ZZZZZZ** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.157	1.0	5.000	0.06600	102	46	155	5.137	0.389	20	
Surr: Chlorobenzene - d5	109.979		100.0		110	46	154		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **LCS-56962_PCB** SampType: **LCS** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **LCSS** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	257.203	16	333.3	0	77.2	58	128				
Aroclor 1260	267.183	16	333.3	0	80.2	60	136				
Surr: Decachlorobiphenyl	23.686		33.34		71.0	34	147				
Surr: Tetrachloro-m-xylene	23.499		33.34		70.5	30	118				

Sample ID: **MB-56962** SampType: **MBLK** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **PBS** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	22.118		33.34		66.3	34	147				
Surr: Tetrachloro-m-xylene	23.253		33.34		69.7	30	118				

Sample ID: **N019343-001B-MS** SampType: **MS** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	276.098	16	332.0	0	83.2	15	143				
Aroclor 1260	245.764	16	332.0	0	74.0	18	136				
Surr: Decachlorobiphenyl	26.812		33.21		80.7	34	147				
Surr: Tetrachloro-m-xylene	22.403		33.21		67.5	30	118				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **N019343-001B-MSD** SampType: **MSD** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	274.665	17	334.5	0	82.1	15	143	276.1	0.520	20	
Aroclor 1260	272.057	17	334.5	0	81.3	18	136	245.8	10.2	20	
Surr: Decachlorobiphenyl	28.958		33.45		86.6	34	147		0		
Surr: Tetrachloro-m-xylene	23.630		33.45		70.6	30	118		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **LCSS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3919.000	330	5000	0	78.4	42	120				
1,2-Dichlorobenzene	3806.000	330	5000	0	76.1	39	120				
1,3-Dichlorobenzene	3603.500	330	5000	0	72.1	36	120				
1,4-Dichlorobenzene	3801.000	330	5000	0	76.0	39	120				
2,4,5-Trichlorophenol	3873.000	330	5000	0	77.5	47	120				
2,4,6-Trichlorophenol	3885.000	330	5000	0	77.7	50	120				
2,4-Dichlorophenol	4008.000	1600	5000	0	80.2	47	120				
2,4-Dimethylphenol	3970.500	330	5000	0	79.4	48	120				
2,4-Dinitrophenol	1029.000	1600	5000	0	20.6	15	120				
2,4-Dinitrotoluene	4264.500	330	5000	0	85.3	63	120				
2,6-Dinitrotoluene	4102.500	330	5000	0	82.0	60	120				
2-Chloronaphthalene	3969.500	330	5000	0	79.4	52	120				
2-Chlorophenol	3744.000	330	5000	0	74.9	42	120				
2-Methylnaphthalene	3954.500	330	5000	0	79.1	47	120				
2-Methylphenol	4122.500	330	5000	0	82.5	45	120				
2-Nitroaniline	4582.500	1600	5000	0	91.7	52	125				
2-Nitrophenol	3802.000	330	5000	0	76.0	41	120				
3,3´-Dichlorobenzidine	7378.000	660	10000	0	73.8	37	120				
3-Nitroaniline	4101.500	1600	5000	0	82.0	57	120				
4,6-Dinitro-2-methylphenol	2618.000	1600	5000	0	52.4	21	120				
4-Bromophenyl-phenylether	4476.500	330	5000	0	89.5	60	120				
4-Chloro-3-methylphenol	4328.000	660	5000	0	86.6	55	120				
4-Chloroaniline	3192.000	660	5000	0	63.8	32	120				
4-Chlorophenyl-phenylether	4509.500	330	5000	0	90.2	58	120				
3/4-Methylphenol	3890.500	330	5000	0	77.8	48	120				
4-Methylphenol	3890.500	330	5000	0	77.8	48	120				
4-Nitroaniline	4948.500	1600	5000	0	99.0	49	120				
4-Nitrophenol	4298.000	1600	5000	0	86.0	39	120				
Acenaphthene	3876.000	330	5000	0	77.5	56	120				
Acenaphthylene	4013.500	330	5000	0	80.3	55	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **LCSS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	4481.000	330	5000	0	89.6	61	120				
Benzo(a)anthracene	4434.500	330	5000	0	88.7	62	112				
Benzo(a)pyrene	4383.000	200	5000	0	87.7	58	108				
Benzo(b)fluoranthene	5033.500	330	5000	0	101	49	129				
Benzo(g,h,i)perylene	4295.500	330	5000	0	85.9	25	135				
Benzo(k)fluoranthene	4258.000	330	5000	0	85.2	53	120				
Benzyl alcohol	3548.500	660	5000	0	71.0	36	120				
Bis(2-chloroethoxy)methane	4174.000	330	5000	0	83.5	47	120				
Bis(2-chloroethyl)ether	3957.500	330	5000	0	79.2	37	120				
Bis(2-chloroisopropyl)ether	4330.000	330	5000	0	86.6	34	120				
Bis(2-ethylhexyl)phthalate	4566.000	330	5000	0	91.3	61	127				
Butylbenzylphthalate	4357.000	330	5000	0	87.1	61	126				
Chrysene	4513.000	330	5000	0	90.3	53	133				
Di-n-butylphthalate	4917.000	330	5000	0	98.3	59	120				
Di-n-octylphthalate	4851.000	330	5000	0	97.0	50	143				
Dibenz(a,h)anthracene	4674.500	200	5000	0	93.5	32	146				
Dibenzofuran	4065.500	330	5000	0	81.3	57	120				
Diethylphthalate	4802.000	330	5000	0	96.0	62	120				
Dimethylphthalate	4435.000	330	5000	0	88.7	60	120				
Fluoranthene	4777.500	330	5000	0	95.6	60	120				
Fluorene	4432.000	330	5000	0	88.6	60	120				
Hexachlorobenzene	4414.500	330	5000	0	88.3	62	120				
Hexachlorocyclopentadiene	4393.000	660	5000	0	87.9	22	126				
Hexachloroethane	3854.500	330	5000	0	77.1	44	120				
Indeno(1,2,3-cd)pyrene	4475.500	330	5000	0	89.5	34	128				
Isophorone	4509.500	330	5000	0	90.2	47	120				
N-Nitrosodi-n-propylamine	4157.500	330	5000	0	83.2	24	120				
N-Nitrosodiphenylamine	4353.000	330	5000	0	87.1	60	120				
Naphthalene	4084.000	330	5000	0	81.7	46	120				
Nitrobenzene	4053.500	330	5000	0	81.1	41	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963**	SampType: **LCS**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106923**
Client ID: **LCSS**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	2035.000	1600	5000	0	40.7	28	120				
Phenanthrene	4501.500	330	5000	0	90.0	60	120				
Phenol	3693.500	330	5000	0	73.9	40	120				
Pyrene	4895.500	330	5000	0	97.9	58	120				
Pyridine	2839.500	1600	5000	0	56.8	27	120				
Surr: 1,2-Dichlorobenzene-d4	4018.000		5000		80.4	21	120				
Surr: 2,4,6-Tribromophenol	4701.500		5000		94.0	25	129				
Surr: 2-Chlorophenol-d4	4313.500		5000		86.3	24	120				
Surr: 2-Fluorobiphenyl	4412.000		5000		88.2	33	120				
Surr: 2-Fluorophenol	4120.000		5000		82.4	21	120				
Surr: 4-Terphenyl-d14	4679.500		5000		93.6	37	135				
Surr: Nitrobenzene-d5	4351.000		5000		87.0	26	120				
Surr: Phenol-d5	4184.000		5000		83.7	25	120				

Sample ID: **MB-56963**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106923**
Client ID: **PBS**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **PBS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3´-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
3/4-Methylphenol	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	200									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **PBS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	200									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Pyridine	ND	1600									
Surr: 1,2-Dichlorobenzene-d4	4100.500		5000		82.0	21	120				
Surr: 2,4,6-Tribromophenol	3207.500		5000		64.2	25	129				
Surr: 2-Chlorophenol-d4	4307.000		5000		86.1	24	120				
Surr: 2-Fluorobiphenyl	4383.500		5000		87.7	33	120				
Surr: 2-Fluorophenol	4048.000		5000		81.0	21	120				
Surr: 4-Terphenyl-d14	4743.500		5000		94.9	37	135				
Surr: Nitrobenzene-d5	4219.000		5000		84.4	26	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106923**
Client ID: **PBS**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Phenol-d5	4165.500		5000		83.3	25	120				

Sample ID: **N019342-001A-MS**	SampType: **MS**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106927**
Client ID: **ZZZZZZ**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/13/2016**	SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4078.618	330	5008	0	81.5	22	120				
1,2-Dichlorobenzene	3879.319	330	5008	0	77.5	16	120				
1,3-Dichlorobenzene	3630.446	330	5008	0	72.5	14	120				
1,4-Dichlorobenzene	3769.154	330	5008	0	75.3	15	120				
2,4,5-Trichlorophenol	4479.219	330	5008	0	89.4	22	120				
2,4,6-Trichlorophenol	4186.780	330	5008	0	83.6	19	120				
2,4-Dichlorophenol	4142.714	1700	5008	0	82.7	18	120				
2,4-Dimethylphenol	3143.215	330	5008	0	62.8	22	120				
2,4-Dinitrophenol	1064.096	1700	5008	0	21.2	14	120				
2,4-Dinitrotoluene	4322.984	330	5008	0	86.3	24	120				
2,6-Dinitrotoluene	4200.300	330	5008	0	83.9	30	120				
2-Chloronaphthalene	4046.069	330	5008	0	80.8	29	120				
2-Chlorophenol	3959.439	330	5008	0	79.1	16	120				
2-Methylnaphthalene	4043.065	330	5008	0	80.7	24	120				
2-Methylphenol	3967.952	330	5008	0	79.2	19	120				
2-Nitroaniline	4719.079	1700	5008	0	94.2	21	120				
2-Nitrophenol	3987.982	330	5008	0	79.6	11	120				
3,3´-Dichlorobenzidine	6513.270	660	10020	0	65.0	14	120				
3-Nitroaniline	4151.227	1700	5008	0	82.9	27	120				
4,6-Dinitro-2-methylphenol	2676.515	1700	5008	0	53.5	18	120				
4-Bromophenyl-phenylether	4692.038	330	5008	0	93.7	35	120				
4-Chloro-3-methylphenol	4427.141	660	5008	0	88.4	21	120				
4-Chloroaniline	3124.186	660	5008	0	62.4	13	120				
4-Chlorophenyl-phenylether	4883.325	330	5008	0	97.5	35	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3/4-Methylphenol	3926.890	330	5008	0	78.4	19	120				
4-Methylphenol	3926.890	330	5008	0	78.4	19	120				
4-Nitroaniline	4735.103	1700	5008	0	94.6	16	120				
4-Nitrophenol	4499.750	1700	5008	0	89.9	12	120				
Acenaphthene	4006.510	330	5008	0	80.0	29	120				
Acenaphthylene	4122.684	330	5008	0	82.3	31	120				
Anthracene	4555.834	330	5008	0	91.0	10	120				
Benzo(a)anthracene	4480.220	330	5008	0	89.5	31	120				
Benzo(a)pyrene	4346.019	200	5008	0	86.8	27	120				
Benzo(b)fluoranthene	5031.547	330	5008	0	100	29	127				
Benzo(g,h,i)perylene	2170.756	330	5008	0	43.4	18	120				
Benzo(k)fluoranthene	4604.907	330	5008	0	92.0	21	135				
Benzyl alcohol	3575.363	660	5008	0	71.4	15	120				
Bis(2-chloroethoxy)methane	4203.806	330	5008	0	84.0	25	120				
Bis(2-chloroethyl)ether	4154.732	330	5008	0	83.0	13	120				
Bis(2-chloroisopropyl)ether	4459.189	330	5008	0	89.0	14	120				
Bis(2-ethylhexyl)phthalate	4933.901	330	5008	0	98.5	23	130				
Butylbenzylphthalate	4716.074	330	5008	0	94.2	24	136				
Chrysene	4437.656	330	5008	0	88.6	25	122				
Di-n-butylphthalate	5150.225	330	5008	0	103	33	120				
Di-n-octylphthalate	6355.033	330	5008	0	127	35	132				
Dibenz(a,h)anthracene	2806.209	200	5008	0	56.0	17	120				
Dibenzofuran	4287.431	330	5008	0	85.6	32	120				
Diethylphthalate	4866.800	330	5008	0	97.2	35	120				
Dimethylphthalate	4618.428	330	5008	0	92.2	34	120				
Fluoranthene	4771.657	330	5008	0	95.3	19	120				
Fluorene	4574.862	330	5008	0	91.4	29	120				
Hexachlorobenzene	4965.448	330	5008	218.0	94.8	34	120				
Hexachlorocyclopentadiene	4044.567	660	5008	0	80.8	14	120				
Hexachloroethane	3845.268	330	5008	0	76.8	22	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	2627.942	330	5008	0	52.5	11	120				
Isophorone	4625.438	330	5008	0	92.4	12	120				
N-Nitrosodi-n-propylamine	4328.993	330	5008	0	86.5	24	120				
N-Nitrosodiphenylamine	4443.165	330	5008	0	88.7	34	120				
Naphthalene	3973.460	330	5008	0	79.4	24	120				
Nitrobenzene	4133.200	330	5008	0	82.5	21	120				
Pentachlorophenol	2321.482	1700	5008	0	46.4	15	120				
Phenanthrene	4667.001	330	5008	0	93.2	32	120				
Phenol	3788.683	330	5008	0	75.7	16	120				
Pyrene	4854.782	330	5008	0	97.0	19	120				
Pyridine	2898.848	1700	5008	0	57.9	13	120				
Surr: 1,2-Dichlorobenzene-d4	4009.514		5008		80.1	21	120				
Surr: 2,4,6-Tribromophenol	5047.571		5008		101	25	129				
Surr: 2-Chlorophenol-d4	4241.863		5008		84.7	24	120				
Surr: 2-Fluorobiphenyl	4391.587		5008		87.7	33	120				
Surr: 2-Fluorophenol	4090.135		5008		81.7	21	120				
Surr: 4-Terphenyl-d14	4669.504		5008		93.2	37	135				
Surr: Nitrobenzene-d5	4236.355		5008		84.6	26	120				
Surr: Phenol-d5	4201.302		5008		83.9	25	120				

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4065.174	330	4975	0	81.7	22	120	4079	0.330	20	
1,2-Dichlorobenzene	3938.308	330	4975	0	79.2	16	120	3879	1.51	20	
1,3-Dichlorobenzene	3679.602	330	4975	0	74.0	14	120	3630	1.34	20	
1,4-Dichlorobenzene	3814.925	330	4975	0	76.7	15	120	3769	1.21	20	
2,4,5-Trichlorophenol	4590.050	330	4975	0	92.3	22	120	4479	2.44	20	
2,4,6-Trichlorophenol	4291.045	330	4975	0	86.2	19	120	4187	2.46	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	4208.955	1600	4975	0	84.6	18	120	4143	1.59	20	
2,4-Dimethylphenol	3567.662	330	4975	0	71.7	22	120	3143	12.6	20	
2,4-Dinitrophenol	1184.577	1600	4975	0	23.8	14	120	1064	0	20	
2,4-Dinitrotoluene	4321.891	330	4975	0	86.9	24	120	4323	0.0253	20	
2,6-Dinitrotoluene	4226.866	330	4975	0	85.0	30	120	4200	0.630	20	
2-Chloronaphthalene	4094.030	330	4975	0	82.3	29	120	4046	1.18	20	
2-Chlorophenol	4029.353	330	4975	0	81.0	16	120	3959	1.75	20	
2-Methylnaphthalene	4067.164	330	4975	0	81.8	24	120	4043	0.594	20	
2-Methylphenol	4186.567	330	4975	0	84.2	19	120	3968	5.36	20	
2-Nitroaniline	4747.264	1600	4975	0	95.4	21	120	4719	0.595	20	
2-Nitrophenol	4065.174	330	4975	0	81.7	11	120	3988	1.92	20	
3,3´-Dichlorobenzidine	6583.582	660	9950	0	66.2	14	120	6513	1.07	20	
3-Nitroaniline	4169.154	1600	4975	0	83.8	27	120	4151	0.431	20	
4,6-Dinitro-2-methylphenol	2849.254	1600	4975	0	57.3	18	120	2677	6.25	20	
4-Bromophenyl-phenylether	4750.746	330	4975	0	95.5	35	120	4692	1.24	20	
4-Chloro-3-methylphenol	4540.796	660	4975	0	91.3	21	120	4427	2.53	20	
4-Chloroaniline	3218.905	660	4975	0	64.7	13	120	3124	2.99	20	
4-Chlorophenyl-phenylether	4901.990	330	4975	0	98.5	35	120	4883	0.381	20	
3/4-Methylphenol	4071.642	330	4975	0	81.8	19	120	3927	3.62	20	
4-Methylphenol	4071.642	330	4975	0	81.8	19	120	3927	3.62	20	
4-Nitroaniline	4734.826	1600	4975	0	95.2	16	120	4735	0.00585	20	
4-Nitrophenol	4677.114	1600	4975	0	94.0	12	120	4500	3.87	20	
Acenaphthene	4173.632	330	4975	0	83.9	29	120	4007	4.09	20	
Acenaphthylene	4168.657	330	4975	0	83.8	31	120	4123	1.11	20	
Anthracene	4677.114	330	4975	0	94.0	10	120	4556	2.63	20	
Benzo(a)anthracene	4593.532	330	4975	0	92.3	31	120	4480	2.50	20	
Benzo(a)pyrene	4501.990	200	4975	0	90.5	27	120	4346	3.53	20	
Benzo(b)fluoranthene	5868.159	330	4975	0	118	29	127	5032	15.4	20	
Benzo(g,h,i)perylene	1935.323	330	4975	0	38.9	18	120	2171	11.5	20	
Benzo(k)fluoranthene	5043.284	330	4975	0	101	21	135	4605	9.09	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzyl alcohol	3532.836	660	4975	0	71.0	15	120	3575	1.20	20	
Bis(2-chloroethoxy)methane	4206.965	330	4975	0	84.6	25	120	4204	0.0751	20	
Bis(2-chloroethyl)ether	4303.980	330	4975	0	86.5	13	120	4155	3.53	20	
Bis(2-chloroisopropyl)ether	4504.478	330	4975	0	90.5	14	120	4459	1.01	20	
Bis(2-ethylhexyl)phthalate	5217.413	330	4975	0	105	23	130	4934	5.59	20	
Butylbenzylphthalate	4772.139	330	4975	0	95.9	24	136	4716	1.18	20	
Chrysene	4678.607	330	4975	0	94.0	25	122	4438	5.29	20	
Di-n-butylphthalate	5039.801	330	4975	0	101	33	120	5150	2.17	20	
Di-n-octylphthalate	7456.219	330	4975	0	150	35	132	6355	15.9	20	S
Dibenz(a,h)anthracene	2595.025	200	4975	0	52.2	17	120	2806	7.82	20	
Dibenzofuran	4314.428	330	4975	0	86.7	32	120	4287	0.628	20	
Diethylphthalate	4913.930	330	4975	0	98.8	35	120	4867	0.964	20	
Dimethylphthalate	4619.403	330	4975	0	92.8	34	120	4618	0.0211	20	
Fluoranthene	4902.488	330	4975	0	98.5	19	120	4772	2.70	20	
Fluorene	4731.841	330	4975	0	95.1	29	120	4575	3.37	20	
Hexachlorobenzene	4908.458	330	4975	218.0	94.3	34	120	4965	1.15	20	
Hexachlorocyclopentadiene	3825.871	660	4975	0	76.9	14	120	4045	5.56	20	
Hexachloroethane	3904.478	330	4975	0	78.5	22	120	3845	1.53	20	
Indeno(1,2,3-cd)pyrene	2420.398	330	4975	0	48.6	11	120	2628	8.22	20	
Isophorone	4611.443	330	4975	0	92.7	12	120	4625	0.303	20	
N-Nitrosodi-n-propylamine	4371.642	330	4975	0	87.9	24	120	4329	0.980	20	
N-Nitrosodiphenylamine	4378.109	330	4975	0	88.0	34	120	4443	1.47	20	
Naphthalene	4129.851	330	4975	0	83.0	24	120	3973	3.86	20	
Nitrobenzene	4123.383	330	4975	0	82.9	21	120	4133	0.238	20	
Pentachlorophenol	2583.582	1600	4975	0	51.9	15	120	2321	10.7	20	
Phenanthrene	4747.761	330	4975	0	95.4	32	120	4667	1.72	20	
Phenol	3889.552	330	4975	0	78.2	16	120	3789	2.63	20	
Pyrene	4885.075	330	4975	0	98.2	19	120	4855	0.622	20	
Pyridine	3073.134	1600	4975	0	61.8	13	120	2899	5.84	20	
Surr: 1,2-Dichlorobenzene-d4	4110.448		4975		82.6	21	120		0		

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	5128.358		4975		103	25	129		0		
Surr: 2-Chlorophenol-d4	4340.299		4975		87.2	24	120		0		
Surr: 2-Fluorobiphenyl	4457.711		4975		89.6	33	120		0		
Surr: 2-Fluorophenol	4155.224		4975		83.5	21	120		0		
Surr: 4-Terphenyl-d14	4867.164		4975		97.8	37	135		0		
Surr: Nitrobenzene-d5	4315.423		4975		86.7	26	120		0		
Surr: Phenol-d5	4261.692		4975		85.7	25	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **LCS-56935** SampType: **LCS** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **4/8/2016** RunNo: **106906**
Client ID: **LCSS** Batch ID: **56935** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **4/10/2016** SeqNo: **2294192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	35.500	5.0	50.00	0	71.0	30	111				
2-Methylnaphthalene	41.000	5.0	50.00	0	82.0	30	133				
Acenaphthene	35.500	5.0	50.00	0	71.0	35	121				
Acenaphthylene	34.000	5.0	50.00	0	68.0	28	125				
Anthracene	32.500	5.0	50.00	0	65.0	46	117				
Benzo(a)anthracene	36.000	5.0	50.00	0	72.0	52	123				
Benzo(a)pyrene	35.500	5.0	50.00	0	71.0	43	124				
Benzo(b)fluoranthene	38.500	5.0	50.00	0	77.0	48	132				
Benzo(g,h,i)perylene	39.000	5.0	50.00	0	78.0	35	136				
Benzo(k)fluoranthene	40.000	5.0	50.00	0	80.0	56	131				
Chrysene	29.500	5.0	50.00	0	59.0	55	118				
Dibenz(a,h)anthracene	40.000	5.0	50.00	0	80.0	44	137				
Fluoranthene	37.500	5.0	50.00	0	75.0	60	127				
Fluorene	36.500	5.0	50.00	0	73.0	47	118				
Indeno(1,2,3-cd)pyrene	40.500	5.0	50.00	0	81.0	44	137				
Naphthalene	38.500	5.0	50.00	0	77.0	32	127				
Phenanthrene	36.000	5.0	50.00	0	72.0	52	112				
Pyrene	37.000	5.0	50.00	0	74.0	56	127				
Surr: 1,2-Dichlorobenzene-d4	37.000		50.00		74.0	20	112				
Surr: 2-Fluorobiphenyl	36.500		50.00		73.0	29	118				
Surr: 4-Terphenyl-d14	38.000		50.00		76.0	23	136				
Surr: Nitrobenzene-d5	34.500		50.00		69.0	28	122				

Sample ID: **MB-56935** SampType: **MBLK** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **4/8/2016** RunNo: **106906**
Client ID: **PBS** Batch ID: **56935** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **4/10/2016** SeqNo: **2294193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	5.0									
2-Methylnaphthalene	ND	5.0									
Acenaphthene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **MB-56935**	SampType: **MBLK**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **4/8/2016**	RunNo: **106906**
Client ID: **PBS**	Batch ID: **56935**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **4/10/2016**	SeqNo: **2294193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	36.500		50.00		73.0	20	112				
Surr: 2-Fluorobiphenyl	36.000		50.00		72.0	29	118				
Surr: 4-Terphenyl-d14	38.500		50.00		77.0	23	136				
Surr: Nitrobenzene-d5	34.000		50.00		68.0	28	122				

Sample ID: **N019342-002A-MS**	SampType: **MS**	TestCode: **8270SOILSIM**	Units: **µg/Kg**	Prep Date: **4/8/2016**	RunNo: **106906**
Client ID: **ZZZZZZ**	Batch ID: **56935**	TestNo: **EPA 8270CSI EPA 3546**		Analysis Date: **4/10/2016**	SeqNo: **2294195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	119.799	5.0	200.5	0	59.8	30	111				
2-Methylnaphthalene	142.356	5.0	200.5	0	71.0	27	112				
Acenaphthene	121.805	5.0	200.5	0	60.8	23	115				
Acenaphthylene	125.313	5.0	200.5	0	62.5	14	128				
Anthracene	118.296	5.0	200.5	0	59.0	39	107				
Benzo(a)anthracene	128.822	5.0	200.5	0	64.2	28	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **N019342-002A-MS** SampType: **MS** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **4/8/2016** RunNo: **106906**
Client ID: **ZZZZZZ** Batch ID: **56935** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **4/10/2016** SeqNo: **2294195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	127.820	5.0	200.5	0	63.8	28	121				
Benzo(b)fluoranthene	137.343	5.0	200.5	0	68.5	29	146				
Benzo(g,h,i)perylene	133.835	5.0	200.5	0	66.8	26	115				
Benzo(k)fluoranthene	134.837	5.0	200.5	0	67.3	25	148				
Chrysene	97.744	5.0	200.5	0	48.8	18	125				
Dibenz(a,h)anthracene	140.852	5.0	200.5	0	70.3	29	121				
Fluoranthene	129.323	5.0	200.5	0	64.5	21	140				
Fluorene	129.825	5.0	200.5	0	64.8	23	125				
Indeno(1,2,3-cd)pyrene	141.353	5.0	200.5	0	70.5	26	120				
Naphthalene	131.830	5.0	200.5	0	65.8	28	98				
Phenanthrene	125.313	5.0	200.5	0	62.5	17	133				
Pyrene	132.331	5.0	200.5	0	66.0	32	122				
Surr: 1,2-Dichlorobenzene-d4	34.085		50.13		68.0	20	112				
Surr: 2-Fluorobiphenyl	34.085		50.13		68.0	29	118				
Surr: 4-Terphenyl-d14	34.085		50.13		68.0	23	136				
Surr: Nitrobenzene-d5	31.078		50.13		62.0	28	122				

Sample ID: **N019342-002A-MSD** SampType: **MSD** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **4/8/2016** RunNo: **106906**
Client ID: **ZZZZZZ** Batch ID: **56935** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **4/10/2016** SeqNo: **2294196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	132.735	5.0	199.6	0	66.5	30	111	119.8	10.2	20	
2-Methylnaphthalene	158.184	5.0	199.6	0	79.3	27	112	142.4	10.5	20	
Acenaphthene	135.230	5.0	199.6	0	67.8	23	115	121.8	10.4	20	
Acenaphthylene	138.224	5.0	199.6	0	69.3	14	128	125.3	9.80	20	
Anthracene	132.735	5.0	199.6	0	66.5	39	107	118.3	11.5	20	
Benzo(a)anthracene	141.218	5.0	199.6	0	70.8	28	130	128.8	9.18	20	
Benzo(a)pyrene	140.719	5.0	199.6	0	70.5	28	121	127.8	9.61	20	
Benzo(b)fluoranthene	150.200	5.0	199.6	0	75.2	29	146	137.3	8.94	20	
Benzo(g,h,i)perylene	146.707	5.0	199.6	0	73.5	26	115	133.8	9.18	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019342
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOILSIM_M

Sample ID: **N019342-002A-MSD** SampType: **MSD** TestCode: **8270SOILSIM** Units: **µg/Kg** Prep Date: **4/8/2016** RunNo: **106906**
Client ID: **ZZZZZZ** Batch ID: **56935** TestNo: **EPA 8270CSI EPA 3546** Analysis Date: **4/10/2016** SeqNo: **2294196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	150.200	5.0	199.6	0	75.2	25	148	134.8	10.8	20	
Chrysene	107.285	5.0	199.6	0	53.8	18	125	97.74	9.31	20	
Dibenz(a,h)anthracene	154.691	5.0	199.6	0	77.5	29	121	140.9	9.36	20	
Fluoranthene	144.711	5.0	199.6	0	72.5	21	140	129.3	11.2	20	
Fluorene	144.711	5.0	199.6	0	72.5	23	125	129.8	10.8	20	
Indeno(1,2,3-cd)pyrene	153.693	5.0	199.6	0	77.0	26	120	141.4	8.36	20	
Naphthalene	145.210	5.0	199.6	0	72.8	28	98	131.8	9.66	20	
Phenanthrene	136.228	5.0	199.6	0	68.3	17	133	125.3	8.35	20	
Pyrene	144.212	5.0	199.6	0	72.3	32	122	132.3	8.59	20	
Surr: 1,2-Dichlorobenzene-d4	36.427		49.90		73.0	20	112		0		
Surr: 2-Fluorobiphenyl	37.924		49.90		76.0	29	118		0		
Surr: 4-Terphenyl-d14	38.423		49.90		77.0	23	136		0		
Surr: Nitrobenzene-d5	34.930		49.90		70.0	28	122		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

RAMBOLL ENVIRON

CHAIN-OF-CUSTODY FORM

№ 12702

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID: NERT
PROJECT LOCATION: Henderson, NV
PROJECT NUMBER: 2138800A, F07
SAMPLER: Amy Manson
DATE: 4/6/16
YEAR: 2016
FIELD PERSON#: Amy Manson
PROJECT MANAGER: John Pekala
LABORATORY: Asset Labs
SIGNATURE: Amy Manson

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD*										COMMENTS
TR-SIDEWALL-20160406	4/6/16	0845	3'		S	6	U	NO		X			N019342	- 01						
TR-BASE-20160406		0850	4'							X				- 02						email results to:
SO-SW-NORTH-20160406		1207	6'							X				- 03						jpekala@ramboll.com
SO-SW-SOUTH-20160406		1002	15'							X				- 04						jkane@ "
SO-SW-WEST01-20160406		0808	13'							X				- 05						
SO-SW-WEST02-20160406		1154	7'							X				- 06						
SO-BASE01-20160406		0758	18'							X				- 07						
SO-BASE02-20160406		1055	10'							X				- 08						* pending instructions from John Pekala/ Jason Kane/ Ramboll Environ
														AM						
TOTAL																				

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
Amy Manson	1502 / 4/6/16	McCARTIN	4/6/16 @ 1502
	4/6/16 @ 1600	Yolanda Rodriguez	4/6/16 16:00

TURNAROUND TIME (CIRCLE ONE): SAME DAY 72 HOURS; 24 HOURS 5 DAYS; 48 HOURS NORMAL

SAMPLE INTEGRITY INTACT (Y) N TEMP 3.7°C — 1.4, 3.8 ICE IR#2

SAMPLE INTEGRITY INTACT Y N

SWBU Office Locations:
- ☐ 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
- ☐ 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
- ☐ 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/6/2016	Workorder:	N019342
Rep sample Temp (Deg C):	1.4/3.8/3.7	IR Gun ID:	2

Temp Blank: ☑ Yes ☐ No

Carrier name: ASSET

Last 4 digits of Tracking No.: NA Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: YR For: 4/8/2016

Reviewed By: 04/11/16

Sample Control LV

From: Marlon B. Cartin <marlon@assetlaboratories.com>
Sent: Thursday, April 07, 2016 11:52 AM
To: 'Jason P. Kane'; 'John Pekala'
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; 'Amy Manion'
Subject: RE: analytical list

Thanks Jason!

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:46 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Yes please. Thanks.

Jason Kane
Senior Associate
D +1 510 420 2547
M +1 949 291 0340
JPKane@ramboll.com

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Suite 700
Emeryville, CA 94608
www.ramboll-environ.com

From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 11:38 AM
To: Jason P. Kane <JPKane@ramboll.com>; John Pekala <jpekala@ramboll.com>
Cc: 'Sample Control LV' <samplecontrol.lv@assetlaboratories.com>; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion <AManion@Ramboll.com>
Subject: RE: analytical list

Will do John!

You need standard TAT right?

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:14 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Thanks Marlon.

Sorry, one additional analysis. For the samples on COC #12703 ("BIN1", "STOCKPILE1A", "STOCKPILE1B", "STOCKPILE2A", and "STOCKPILE2B"), please add VOCs by 8260.

Once these are set-up, can you send through a work order confirmation or something I can double-check to make sure you are analyzing everything we need?

Jason Kane
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JPKane@ramboll.com

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From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 11:12 AM
To: Jason P. Kane; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Thanks Jason!

We will process this right away.

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:09 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Hi Marlon
The analytical program for our samples submitted yesterday are as follows:

Samples on COC #12702 ("TR-SIDEWALL", "TR-BASE", "SO-SW-NORTH", "SO-SW-SOUTH", "SO-SW-WEST01", "SO-SW-WEST02", "SO-SW-BASE01", and "SO-SW-BASE02":

- SVOCs (including hexachlorobenzene, Benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-Dinitrotoluene, Hexachloroethane, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol) by EPA 8270D.
- PAHs by EPA 8310 or 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.

Samples on COC #12703 ("BIN1", "STOCKPILE1A", "STOCKPILE1B", "STOCKPILE2A", and "STOCKPILE2B"):

- SVOCs (including hexachlorobenzene, benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachloroethane, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol) by EPA 8270D.
- TCLPs for the following SVOC compounds: o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachlorobenzene, hexachloroethane, nitrobenzene, pentachlorophenol, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol by EPA 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- TCLPs for all RCRA 8 metals by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.
- Organochlorine pesticides by EPA 8081A.
- 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.
- Ignitability by EPA 1010.
- Corrosivity by EPA 9045.
- Reactivity by EPA SW 846.
- Cyanide by EPA 9012.
- Sulfide by EPA 9034.
- Sulfate by EPA 300.

Please let me know if you have any questions or concerns.

Thanks

Jason Kane
Senior Associate
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M +1 949 291 0340
JPKane@ramboll.com

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Suite 700
Emeryville, CA 94608
www.ramboll-environ.com

From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 9:06 AM
To: John Pekala
Cc: Jason P. Kane; 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com
Subject: RE: analytical list

Thank you John!

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: John Pekala [mailto:jpekala@ramboll.com]
Sent: Wednesday, April 06, 2016 5:23 PM
To: Marlon B. Cartin
Cc: Jason P. Kane; Sample Control LV; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com
Subject: Re: analytical list

We should know tomorrow afternoon.

John

On Apr 6, 2016, at 4:41 PM, Marlon B. Cartin <marlon@assetlaboratories.com> wrote:

> Hi Jason/John,
>
> Please see attached COC of samples we got this afternoon. Samples are all on-hold for now pending confirmation from you guys.
> Please let me know of the tests you want to proceed once you finalized it.
>
> Thank you so much for considering us on this project. We apprecaiate the busniess.
>
> **Marlon B. Cartin**
> Project Manager
> Nevada: 3151 W. Post Road, Las Vegas, NV 89118
> **P:** 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Wednesday, April 06, 2016 8:38 AM
To: marlon@assetlaboratories.com
Subject: analytical list

Stockpile Characterization Sampling

- SVOCs (including hexachlorobenzene, benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachloroethane, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol) by EPA 8270D.
- TCLPs for the following SVOC compounds: o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachlorobenzene, hexachloroethane, nitrobenzene, pentachlorophenol, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol by EPA 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- TCLPs for all RCRA 8 metals by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.
- Organochlorine pesticides by EPA 8081A.
- 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.
- Ignitability by EPA 1010.
- Corrosivity by EPA 9045.
- Reactivity by EPA SW 846.
- Cyanide by EPA 9012.
- Sulfide by EPA 9034.
- Sulfate by EPA 300.

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Senior Associate
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M +1 949 291 0340
JPKane@ramboll.com

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<SKMBT_60116040616140.pdf>

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ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-001A	TR-SIDEWALL-20160406	4/6/2016 8:45:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-001B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-001C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-001D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-001E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-001F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-002A	TR-BASE-20160406	4/6/2016 8:50:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-002B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-002C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-002D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-002E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-002F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-003A	SO-SW-NORTH-20160406	4/6/2016 12:07:00 PM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-003B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-003C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-003D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-003E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-003F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-004A	SO-SW-SOUTH-20160406	4/6/2016 10:02:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-004B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-004C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-004D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-004E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-004F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-005A	SO-SW-WEST01-20160406	4/6/2016 8:08:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-005B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-005C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-005D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-005E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-005F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-006A	SO-SW-WEST02-20160406	4/6/2016 11:54:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-006B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-006C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-006D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-006E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-006F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-007A	SO-BASE01-20160406	4/6/2016 7:58:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-007B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-007C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-007D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-007E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-007F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-008A	SO-BASE02-20160406	4/6/2016 10:55:00 AM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
			4/13/2016		EPA 8270CSIM	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	☐	☐	☐	WS
N019342-008B			4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
N019342-008C			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
N019342-008D			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019342-008E			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019342-008F			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019342

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019342-009A	FOLDER		4/13/2016		Folder	Folder	☐	☐	☐	LAB

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612) 607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 8290		
N019342-001F / TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	8OZG	1		
N019342-002F / TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	8OZG	1		
N019342-003F / SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	8OZG	1		
N019342-004F / SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	8OZG	1		
N019342-005F / SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	8OZG	1		
N019342-006F / SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	8OZG	1		
N019342-007F / SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	8OZG	1		
N019342-008F / SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	8OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N019342A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

FEDEX # 7760 6729 5135

	Date/Time		Date/Time
Relinquished by: Yoanda Rodriguez	4/7/16 16:00	Received by:	
Relinquished by:		Received by:	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ALS Global
4977 Energy Way
Reno, NV 89502-4105

TEL: +1 775 356 5395
FAX:
Acct #:

Field Sampler:

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 6010B		
N019342-001E / TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	8OZG	1		
N019342-002E / TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	8OZG	1		
N019342-003E / SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	8OZG	1		
N019342-004E / SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	8OZG	1		
N019342-005E / SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	8OZG	1		
N019342-006E / SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	8OZG	1		
N019342-007E / SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	8OZG	1		
N019342-008E / SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	8OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19342B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Platinum by EPA 6010.

GSO #: 531515431

		Date/Time			Date/Time
Relinquished by:	Leandra Rodriguez	4/7/16 17:00	**Received by:**		
Relinquished by:			**Received by:**		

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Marlon Cartin
Asset Laboratories
3151 West Post Road
Las Vegas NV 89118

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10344153
Sample Receipt Date: 04/08/2016
Client Project #: N019342
Client Sub PO #: N19342A
State Cert #: MN_00064_2000_72

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

April 22, 2016

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
April 22, 2016

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on eight samples submitted by a representative of Asset Laboratories. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 51-114%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained. Concentrations above the calibration range were flagged "E" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. This indicates that the sample preparation procedures did not significantly impact the results reported for the field samples.

Laboratory and matrix spike samples were also prepared using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds in the laboratory spike sample were recovered at 107-130%; these results were within the target range for the method. The background-subtracted recovery values obtained for the matrix spike samples were generally outside of the 70-130% target range. Also, the relative percent differences obtained for the matrix spike analyses were generally above the 20% target upper limir. These deviations may have resulted from sample inhomogeneity.

Pace Analytical Services, Inc.
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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q
Minnesota	027-053-137		

REPORT OF LABORATORY ANALYSIS

Report No.....10344153

Appendix A

Sample Management

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

10344153

Subcontractor:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612) 607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 8290		
N019342-001F / TR-SIDEWALL-20160406	Soil	4/6/2016 8:45:00 AM	8OZG	1		001
N019342-002F / TR-BASE-20160406	Soil	4/6/2016 8:50:00 AM	8OZG	1		002
N019342-003F / SO-SW-NORTH-20160406	Soil	4/6/2016 12:07:00 PM	8OZG	1		003
N019342-004F / SO-SW-SOUTH-20160406	Soil	4/6/2016 10:02:00 AM	8OZG	1		004
N019342-005F / SO-SW-WEST01-20160406	Soil	4/6/2016 8:08:00 AM	8OZG	1		005
N019342-006F / SO-SW-WEST02-20160406	Soil	4/6/2016 11:54:00 AM	8OZG	1		006
N019342-007F / SO-BASE01-20160406	Soil	4/6/2016 7:58:00 AM	8OZG	1		007
N019342-008F / SO-BASE02-20160406	Soil	4/6/2016 10:55:00 AM	8OZG	1		008

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N019342A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

FEDEX # 7760 6729 5135

	Date/Time		Date/Time
Relinquished by: Yoandra Rodriguez	4/7/16 16:00	Received by:	4/8/16 930
Relinquished by:		Received by:	

T.D.9

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Asset Laboratories

Project #: WO#: 10344153

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7760 6729 5153

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☑ Other: foam rolls **Temp Blank?** ☐ Yes ☒ No

Thermometer Used: ☐ 151401163 ☐ 151401164 ☐ B88A912167504 ☒ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.0 **Cooler Temp Corrected (°C):** 0.9 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** DW 4/8/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☑ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Joanne Richardson **Date:** 4-8-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-001F / TR-SIDEWALL-20160406		
Lab Sample ID	10344153001		
Filename	U160421A_14		
Injected By	CVS		
Total Amount Extracted	11.0 g	Matrix	Soil
% Moisture	3.7	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	04/06/2016 08:45
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160420B_16 & U160421B_01	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/21/2016 15:46

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	340	-----	1.0		2,3,7,8-TCDF-13C	2.00	97
Total TCDF	4500	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	106
					1,2,3,7,8-PeCDF-13C	2.00	104
2,3,7,8-TCDD	11	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	102
Total TCDD	390	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	109
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	500	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	300	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	4500	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	40	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	460	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	780	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	570	-----	5.0		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	310	-----	5.0				
1,2,3,7,8,9-HxCDF	230	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4300	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	24	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	103
1,2,3,6,7,8-HxCDD	52	-----	5.0				
1,2,3,7,8,9-HxCDD	47	-----	5.0				
Total HxCDD	390	-----	5.0				
1,2,3,4,6,7,8-HpCDF	1700	-----	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	670	-----	5.0		Equivalence: 470 ng/Kg		
Total HpCDF	3600	-----	5.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	150	-----	5.0				
Total HpCDD	230	-----	5.0				
OCDF	5200	-----	10.0	E			
OCDD	210	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-002F / TR-BASE-20160406		
Lab Sample ID	10344153002		
Filename	U160421B_07		
Injected By	CVS		
Total Amount Extracted	11.3 g	Matrix	Soil
% Moisture	5.3	Dilution	NA
Dry Weight Extracted	10.7 g	Collected	04/06/2016 08:50
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/21/2016 23:16

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-003F / SO-SW-NORTH-20160406		
Lab Sample ID	10344153003		
Filename	U160421B_08		
Injected By	CVS		
Total Amount Extracted	11.1 g	Matrix	Soil
% Moisture	20.6	Dilution	NA
Dry Weight Extracted	8.81 g	Collected	04/06/2016 12:07
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 00:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	440	-----	1.0		2,3,7,8-TCDF-13C	2.00	99
Total TCDF	4700	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	112
					1,2,3,7,8-PeCDF-13C	2.00	106
2,3,7,8-TCDD	13	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	440	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	114
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	640	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	400	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	5000	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	61
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	46	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	510	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	1400	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	990	-----	5.0		OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	490	-----	5.0				
1,2,3,7,8,9-HxCDF	340	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	7900	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	41	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	111
1,2,3,6,7,8-HxCDD	92	-----	5.0				
1,2,3,7,8,9-HxCDD	81	-----	5.0				
Total HxCDD	710	-----	5.0				
1,2,3,4,6,7,8-HpCDF	4100	-----	5.0	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1400	-----	5.0		Equivalence: 740 ng/Kg		
Total HpCDF	8200	-----	5.0	E	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	350	-----	5.0				
Total HpCDD	580	-----	5.0				
OCDF	22000	-----	10.0	E			
OCDD	980	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-004F / SO-SW-SOUTH-20160406		
Lab Sample ID	10344153004		
Filename	U160421B_09		
Injected By	CVS		
Total Amount Extracted	11.2 g	Matrix	Soil
% Moisture	11.0	Dilution	NA
Dry Weight Extracted	9.97 g	Collected	04/06/2016 10:02
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 00:50

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	2.4	-----	1.0	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	29.0	-----	1.0	2,3,7,8-TCDD-13C	2.00	91
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	1.1	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	5.5	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	8.3	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	6.0	-----	5.0	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	20.0	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	25.0	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	9.1	-----	5.0	Equivalence: 2.1 ng/Kg		
Total HpCDF	48.0	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	66.0	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-005F / SO-SW-WEST01-20160406		
Lab Sample ID	10344153005		
Filename	U160421B_10		
Injected By	CVS		
Total Amount Extracted	11.3 g	Matrix	Soil
% Moisture	10.3	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	04/06/2016 08:08
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 01:36

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	91
				1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	103
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	90
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.011 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	11	-----	10.0			
OCDD	ND	-----	10.0			

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-006F / SO-SW-WEST02-20160406		
Lab Sample ID	10344153006		
Filename	U160421B_11		
Injected By	CVS		
Total Amount Extracted	11.0 g	Matrix	Soil
% Moisture	9.8	Dilution	NA
Dry Weight Extracted	9.92 g	Collected	04/06/2016 11:54
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 02:23

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	98
				1,2,3,7,8-PeCDF-13C	2.00	102
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	110
				1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	94
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	100
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-007F / SO-BASE01-20160406		
Lab Sample ID	10344153007		
Filename	U160421B_12		
Injected By	CVS		
Total Amount Extracted	11.6 g	Matrix	Soil
% Moisture	11.0	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	04/06/2016 07:58
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 03:09

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.041 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	41	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019342-008F / SO-BASE02-20160406		
Lab Sample ID	10344153008		
Filename	U160421B_13		
Injected By	CVS		
Total Amount Extracted	11.6 g	Matrix	Soil
% Moisture	16.0	Dilution	NA
Dry Weight Extracted	9.74 g	Collected	04/06/2016 10:55
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 03:56

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	740	-----	1.0	E	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	10000	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	17	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	750	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	960	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	580	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	9100	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	59	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	670	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	2100	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1500	-----	5.0		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	760	-----	5.0				
1,2,3,7,8,9-HxCDF	610	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	11000	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	42	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	94	-----	5.0				
1,2,3,7,8,9-HxCDD	91	-----	5.0				
Total HxCDD	740	-----	5.0				
1,2,3,4,6,7,8-HpCDF	5700	-----	5.0	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2300	-----	5.0		Equivalence: 1100 ng/Kg		
Total HpCDF	11000	-----	5.0	E	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	350	-----	5.0				
Total HpCDD	550	-----	5.0				
OCDF	17000	-----	10.0	E			
OCDD	420	-----	10.0				

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-49933	Matrix	Solid
Filename	U160421B_06	Dilution	NA
Total Amount Extracted	11.7 g	Extracted	04/19/2016 21:30
ICAL ID	U160204	Analyzed	04/21/2016 22:30
CCal Filename(s)	U160421B_01 & U160421B_19	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	96
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	107
				1,2,3,7,8-PeCDF-13C	2.00	108
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	105
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	113
				1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	101
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-49934		
Filename	U160422A_04	Matrix	Solid
Total Amount Extracted	10.7 g	Dilution	NA
ICAL ID	U160204	Extracted	04/19/2016 21:30
CCal Filename(s)	U160421B_19 & U160422A_11	Analyzed	04/22/2016 11:12
Method Blank ID	BLANK-49933	Injected By	CVS

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.26	128	2,3,7,8-TCDF-13C	2.0	86
Total TCDF				2,3,7,8-TCDD-13C	2.0	92
				1,2,3,7,8-PeCDF-13C	2.0	93
2,3,7,8-TCDD	0.20	0.21	107	2,3,4,7,8-PeCDF-13C	2.0	88
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	94
				1,2,3,4,7,8-HxCDF-13C	2.0	83
1,2,3,7,8-PeCDF	1.0	1.2	125	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	1.2	118	2,3,4,6,7,8-HxCDF-13C	2.0	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	89
				1,2,3,4,7,8-HxCDD-13C	2.0	76
1,2,3,7,8-PeCDD	1.0	1.1	114	1,2,3,6,7,8-HxCDD-13C	2.0	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	68
1,2,3,4,7,8-HxCDF	1.0	1.2	120	1,2,3,4,6,7,8-HpCDD-13C	2.0	69
1,2,3,6,7,8-HxCDF	1.0	1.2	123	OCDD-13C	4.0	63
2,3,4,6,7,8-HxCDF	1.0	1.1	115			
1,2,3,7,8,9-HxCDF	1.0	1.2	119	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.3	130	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	1.0	1.3	127			
1,2,3,7,8,9-HxCDD	1.0	1.3	128			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.3	125			
1,2,3,4,7,8,9-HpCDF	1.0	1.2	122			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.2	119			
Total HpCDD						
OCDF	2.0	2.4	120			
OCDD	2.0	2.6	128			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spiked Sample Report

Client - Asset Laboratories

Client's Sample ID	N019342-001F / TR-SIDEWALL-20160406-MS		
Lab Sample ID	10344153001-MS		
Filename	U160421B_03	Matrix	Soil
Total Amount Extracted	11.9 g	Dilution	NA
ICAL ID	U160204	Extracted	04/19/2016 21:30
CCal Filename(s)	U160421B_01 & U160421B_19	Analyzed	04/21/2016 20:10
Method Blank ID	BLANK-49933	Injected By	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	2.81	1403	2,3,7,8-TCDF-13C	2.00	90
				2,3,7,8-TCDD-13C	2.00	98
				1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	0.20	0.30	149	2,3,4,7,8-PeCDF-13C	2.00	92
				1,2,3,7,8-PeCDD-13C	2.00	100
				1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	1.00	5.00	500	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	1.00	3.74	374	2,3,4,6,7,8-HxCDF-13C	2.00	90
				1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	1.00	1.32	132	1,2,3,6,7,8-HxCDD-13C	2.00	74
				1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	1.00	7.22	722	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	1.00	5.28	528	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	1.00	3.49	349			
1,2,3,7,8,9-HxCDF	1.00	3.02	302	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.44	144	2,3,7,8-TCDD-37Cl4	0.20	101
1,2,3,6,7,8-HxCDD	1.00	1.57	157			
1,2,3,7,8,9-HxCDD	1.00	1.61	161			
1,2,3,4,6,7,8-HpCDF	1.00	14.34	1434			
1,2,3,4,7,8,9-HpCDF	1.00	6.76	676			
1,2,3,4,6,7,8-HpCDD	1.00	2.17	217			
OCDF	2.00	47.16	2358			
OCDD	2.00	4.16	208			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spiked Sample Report

Client - Asset Laboratories

Client's Sample ID	N019342-001F / TR-SIDEWALL-20160406-MSD		
Lab Sample ID	10344153001-MSD		
Filename	U160421B_04	Matrix	Soil
Total Amount Extracted	12.0 g	Dilution	NA
ICAL ID	U160204	Extracted	04/19/2016 21:30
CCal Filename(s)	U160421B_01 & U160421B_19	Analyzed	04/21/2016 20:57
Method Blank ID	BLANK-49933	Injected By	CVS

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	4.54	2268	E	2,3,7,8-TCDF-13C	2.00	93
					2,3,7,8-TCDD-13C	2.00	102
					1,2,3,7,8-PeCDF-13C	2.00	102
2,3,7,8-TCDD	0.20	0.33	166		2,3,4,7,8-PeCDF-13C	2.00	96
					1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	1.00	7.94	794		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	1.00	5.86	586		2,3,4,6,7,8-HxCDF-13C	2.00	88
					1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	1.00	1.61	161		1,2,3,6,7,8-HxCDD-13C	2.00	71
					1,2,3,4,6,7,8-HpCDF-13C	2.00	64
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	1.00	13.85	1385		1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	1.00	10.16	1016		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	1.00	5.91	591				
1,2,3,7,8,9-HxCDF	1.00	4.82	482		1,2,3,4-TCDD-13C	2.00	NA
					1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.67	167		2,3,7,8-TCDD-37Cl4	0.20	101
1,2,3,6,7,8-HxCDD	1.00	2.07	207				
1,2,3,7,8,9-HxCDD	1.00	2.10	210				
1,2,3,4,6,7,8-HpCDF	1.00	34.85	3485	E			
1,2,3,4,7,8,9-HpCDF	1.00	14.54	1454				
1,2,3,4,6,7,8-HpCDD	1.00	4.05	405				
OCDF	2.00	104.33	5216	E			
OCDD	2.00	6.10	305				

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - Asset Laboratories

Client Sample ID	N019342-001F / TR-SIDEWALL-20160406			Dry Weights	
Lab Sample ID	10344153001	Sample Filename	U160421A_14	Sample Amount	10.6 g
MS ID	10344153001-MS	MS Filename	U160421B_03	MS Amount	11.5 g
MSD ID	10344153001-MSD	MSD Filename	U160421B_04	MSD Amount	11.6 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	336.392	0.20	2.81	4.54	47.1	0	324	200.0
2,3,7,8-TCDD	11.033	0.20	0.30	0.33	11.1	85	102	18.1
1,2,3,7,8-PeCDF	497.917	1.00	5.00	7.94	45.4	0	219	200.0
2,3,4,7,8-PeCDF	295.460	1.00	3.74	5.86	44.1	35	244	149.5
1,2,3,7,8-PeCDD	40.274	1.00	1.32	1.61	19.8	86	115	28.5
1,2,3,4,7,8-HxCDF	780.232	1.00	7.22	13.85	62.9	0	483	200.0
1,2,3,6,7,8-HxCDF	570.437	1.00	5.28	10.16	63.2	0	357	200.0
2,3,4,6,7,8-HxCDF	309.842	1.00	3.49	5.91	51.5	0	233	200.0
1,2,3,7,8,9-HxCDF	227.672	1.00	3.02	4.82	46.1	41	219	137.4
1,2,3,4,7,8-HxCDD	24.107	1.00	1.44	1.67	15.0	116	139	18.1
1,2,3,6,7,8-HxCDD	52.381	1.00	1.57	2.07	27.6	97	146	40.9
1,2,3,7,8,9-HxCDD	46.610	1.00	1.61	2.10	26.6	108	157	37.0
1,2,3,4,6,7,8-HpCDF	1744.982	1.00	14.34	34.85	83.4	0	1469	200.0
1,2,3,4,7,8,9-HpCDF	666.622	1.00	6.76	14.54	73.0	0	683	200.0
1,2,3,4,6,7,8-HpCDD	146.047	1.00	2.17	4.05	60.6	49	236	130.8
OCDF	5227.571	2.00	47.16	104.33	75.5	0	2196	200.0
OCDD	214.270	2.00	4.16	6.10	37.7	85	181	71.7

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
This copy reported on
28- APR- 2016
Account: ASTLAB

CERTIFICATE RE16053472

P.O. No.: N19342B

This report is for 8 Soil samples submitted to our lab in Reno, NV, USA on 9- APR- 2016.

The following have access to data associated with this certificate:

REPORTS		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
TRA- 21	Transfer sample
SPL- 21	Split sample - riffle splitter
LOG- 22	Sample login - Rcd w/o BarCode
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM- MS23L	Low level PGM - FA ICPMS	ICP- MS

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519

To: ASSET LABORATORIES
ATTN: REPORTS
3151- 3153 W POST RD.
LOS VEGAS NV 89118

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
Account: ASTLAB

CERTIFICATE OF ANALYSIS RE16053472

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	PGM- MS23L Pt ppb 0.1
N019342- 001E/TR- SIDEWALL- 20160406		0.46	20.0
N019342- 002E/TR- BASE- 20160406		0.48	1.0
N019342- 003E/SO- SW- NORTH- 20160406		0.40	222
N019342- 004E/SO- SW- SOUTH- 20160406		0.46	2.0
N019342- 005E/SO- SW- WEST01- 20160406		0.44	0.9
N019342- 006/SO- SW- WEST02- 20160406		0.50	5.3
N019342- 007/SO- BASE01- 20160406		0.42	4.3
N019342- 008E/SO- BASE02- 20160406		0.40	12.6

***** See Appendix Page for comments regarding this certificate *****

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
Account: ASTLAB

CERTIFICATE OF ANALYSIS RE16053472

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.
LOG- 22 PUL- 31 SPL- 21 TRA- 21
WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
PGM- MS23L

April 15, 2016

John Pekala
Ramboll Environ
2200 Powell Street, Suite 700
Emeryville, CA 94608

TEL:
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-00922

Workorder No.: N019343

RE: NERT, 2138800A, F07

Attention: John Pekala

Enclosed are the results for sample(s) received on April 06, 2016 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Glen Gesmundo
QA Manager

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Subcontracted Analyses:

Subcontracted Analyses:

EPA 1030 was subcontracted to Enthalpy Analytical.

EPA 8151 was subcontracted to Accutest Laboratories.

Sulfide and Cyanide were subcontracted to Gel Laboratories.

EPA 8290 was subcontracted to PACE Analytical Services, Inc.-Minneapolis, MN.

Platinum was subcontracted to ALS Global.

Analytical Comments for EPA 300.0:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Sulfate on QC samples N019343-002EMS and N019343-002EMSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019342-001D-MS and N019342-001D-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Analytical Comments for EPA 1311/7470A:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019343-003C-MS and N019343-003C-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 7199:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on QC samples N019314-001B-MS and N019314-001B-MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 8081A:

Decachlorobiphenyl surrogate recovery biased high for sample N019343-004B and N019343-005B possibly due to matrix interferences. Sample contains peaks that interferes with surrogate peak. The other surrogate Tetrachloro-m-xylene was recovered within limit.

Analytical Comments for EPA 8082:

Decachlorobiphenyl surrogate recovery biased high for sample N019343-004B and N019343-005B possibly due to matrix interferences. Sample contains peaks that interferes with surrogate peak. The other surrogate Tetrachloro-m-xylene was recovered within limit.

Analytical Comments for EPA 8260B:

Laboratory Control Sample (LCS) recovery biased high for some analytes. Sample results were non-detect (ND) for these analytes therefore reanalysis of the samples was not necessary.

Dibromofluoromethane surrogate recovery biased high for sample N019343-002A and N019343-005A possibly due to matrix interferences. The other surrogates were recovered within limit.

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11060 Artesia Blvd., Ste C, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

ASSET Laboratories

Date: *15-Apr-16*

CLIENT: Ramboll Environ
Project: NERT, 2138800A, F07
Lab Order: N019343
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N019343-001A	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001B	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001C	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001D	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001E	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001F	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001G	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001H	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-001I	BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4/6/2016	4/15/2016
N019343-002A	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002B	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002C	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002D	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002E	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002F	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002G	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002H	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-002I	STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4/6/2016	4/15/2016
N019343-003A	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003B	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003C	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003D	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003E	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003F	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003G	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003H	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-003I	STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4/6/2016	4/15/2016
N019343-004A	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004B	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES
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CLIENT: Ramboll Environ
Project: NERT, 2138800A, F07
Lab Order: N019343
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N019343-004C	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004D	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004E	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004F	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004G	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004H	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-004I	STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4/6/2016	4/15/2016
N019343-005A	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005B	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005C	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005D	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005E	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005F	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005G	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005H	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016
N019343-005I	STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4/6/2016	4/15/2016

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
N019343-001	**BIN1-20160406**					
4,4´-DDE	4.3	2.0		µg/Kg	1	EPA 8081A
beta-BHC	6.7	1.0		µg/Kg	1	EPA 8081A
Arsenic	8.8	1.0		mg/Kg	1	EPA 6010B
Barium	400	1.0		mg/Kg	1	EPA 6010B
Chromium	17	1.0		mg/Kg	1	EPA 6010B
Lead	32	1.0		mg/Kg	1	EPA 6010B
Magnesium	8800	10		mg/Kg	1	EPA 6010B
Manganese	8100	250		mg/Kg	25	EPA 6010B
Selenium	1.3	1.0		mg/Kg	1	EPA 6010B
Titanium	500	75		mg/Kg	5	EPA 6010B
pH	8.1	0.10		pH Units	1	EPA 9045C
Temp. at time of pH Analysis	23	0		°C	1	EPA 9045C
Hexavalent Chromium	0.98	0.20		mg/Kg	1	EPA 7199
Sulfate	3500	250		mg/Kg	50	EPA 300.0
Perchlorate	21000	2000		µg/Kg	100	EPA 314(M)
N019343-002	**STOCKPILE1A-20160406**					
Arsenic	5.3	1.0		mg/Kg	1	EPA 6010B
Barium	270	1.0		mg/Kg	1	EPA 6010B
Chromium	11	1.0		mg/Kg	1	EPA 6010B
Lead	24	1.0		mg/Kg	1	EPA 6010B
Magnesium	7700	10		mg/Kg	1	EPA 6010B
Manganese	980	50		mg/Kg	5	EPA 6010B
Titanium	450	75		mg/Kg	5	EPA 6010B
Barium	0.57	0.20		mg/L	1	EPA 1311/ 6010B
pH	8.3	0.10		pH Units	1	EPA 9045C
Temp. at time of pH Analysis	22	0		°C	1	EPA 9045C
Hexavalent Chromium	0.28	0.20		mg/Kg	1	EPA 7199
Sulfate	700	50		mg/Kg	10	EPA 300.0
Perchlorate	4600	400		µg/Kg	20	EPA 314(M)
N019343-003	**STOCKPILE1B-20160406**					

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
Arsenic	5.0	1.0		mg/Kg	1	EPA 6010B
Barium	150	1.0		mg/Kg	1	EPA 6010B
Chromium	10	1.0		mg/Kg	1	EPA 6010B
Lead	18	1.0		mg/Kg	1	EPA 6010B
Magnesium	6200	10		mg/Kg	1	EPA 6010B
Manganese	1600	50		mg/Kg	5	EPA 6010B
Titanium	350	75		mg/Kg	5	EPA 6010B
Barium	0.52	0.20		mg/L	1	EPA 1311/ 6010B
Hexachlorobenzene	440	330		µg/Kg	1	EPA 8270C
pH	8.2	0.10		pH Units	1	EPA 9045C
Temp. at time of pH Analysis	23	0		°C	1	EPA 9045C
Hexavalent Chromium	0.26	0.20		mg/Kg	1	EPA 7199
Sulfate	480	50		mg/Kg	10	EPA 300.0
Perchlorate	6100	400		µg/Kg	20	EPA 314(M)
N019343-004	**STOCKPILE2A-20160406**					
Hexachlorobenzene	2800	330		µg/Kg	1	EPA 8270C
DRO	16	10		mg/Kg	1	EPA 8015B
ORO	20	10		mg/Kg	1	EPA 8015B
Mercury	1.2	0.10		mg/Kg	1	EPA 7471A
Arsenic	23	1.0		mg/Kg	1	EPA 6010B
Barium	990	1.0		mg/Kg	1	EPA 6010B
Chromium	25	1.0		mg/Kg	1	EPA 6010B
Lead	250	1.0		mg/Kg	1	EPA 6010B
Magnesium	6000	10		mg/Kg	1	EPA 6010B
Manganese	18000	500		mg/Kg	50	EPA 6010B
Selenium	3.4	1.0		mg/Kg	1	EPA 6010B
Silver	1.2	1.0		mg/Kg	1	EPA 6010B
Titanium	490	75		mg/Kg	5	EPA 6010B
Barium	0.70	0.20		mg/L	1	EPA 1311/ 6010B
pH	7.9	0.10		pH Units	1	EPA 9045C
Temp. at time of pH Analysis	23	0		°C	1	EPA 9045C
Hexavalent Chromium	5.1	0.20		mg/Kg	1	EPA 7199

Qualifiers:

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H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07

Lab ID / Analyses	Client Sample ID / Result	PQL	Qual	Units	DF	Test No
Sulfate	410	50		mg/Kg	10	EPA 300.0
Perchlorate	570	100		µg/Kg	5	EPA 314(M)
N019343-005	**STOCKPILE2B-20160406**					
pH	7.7	0.10		pH Units	1	EPA 9045C
Temp. at time of pH Analysis	22	0		°C	1	EPA 9045C
Hexavalent Chromium	15	0.20		mg/Kg	1	EPA 7199
Sulfate	300	25		mg/Kg	5	EPA 300.0
Perchlorate	690	100		µg/Kg	5	EPA 314(M)
Hexachlorobenzene	5700	330		µg/Kg	1	EPA 8270C
DRO	20	10		mg/Kg	1	EPA 8015B
ORO	27	10		mg/Kg	1	EPA 8015B
Mercury	0.61	0.50		µg/L	1	EPA 1311/ 7470A
Mercury	0.72	0.10		mg/Kg	1	EPA 7471A
Arsenic	120	1.0		mg/Kg	1	EPA 6010B
Barium	4200	1.0		mg/Kg	1	EPA 6010B
Cadmium	1.6	1.0		mg/Kg	1	EPA 6010B
Chromium	150	1.0		mg/Kg	1	EPA 6010B
Lead	1100	1.0		mg/Kg	1	EPA 6010B
Magnesium	6800	10		mg/Kg	1	EPA 6010B
Manganese	29000	500		mg/Kg	50	EPA 6010B
Selenium	14	1.0		mg/Kg	1	EPA 6010B
Silver	6.1	1.0		mg/Kg	1	EPA 6010B
Titanium	1200	370		mg/Kg	25	EPA 6010B
Arsenic	0.055	0.050		mg/L	1	EPA 1311/ 6010B
Barium	1.2	0.20		mg/L	1	EPA 1311/ 6010B
Chromium	0.092	0.050		mg/L	1	EPA 1311/ 6010B

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
		EPA 9045C				
RunID: WETCHEM_160408A	QC Batch: R106822			PrepDate:		Analyst: **LR**
pH	8.1	0.10		pH Units	1	4/8/2016 08:45 AM
Temp. at time of pH Analysis	23	0		°C	1	4/8/2016 08:45 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION						
	EPA 3510C			**EPA 1311/ 8270C**		
RunID: MS3_160412B	QC Batch: 56980			PrepDate:	4/12/2016	Analyst: **MDM**
3/4-Methylphenol	ND	0.010		mg/L	1	4/12/2016 08:24 PM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	4/12/2016 08:24 PM
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	4/12/2016 08:24 PM
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	4/12/2016 08:24 PM
2,4-Dinitrotoluene	ND	0.010		mg/L	1	4/12/2016 08:24 PM
2-Methylphenol	ND	0.010		mg/L	1	4/12/2016 08:24 PM
4-Methylphenol	ND	0.010		mg/L	1	4/12/2016 08:24 PM
Hexachlorobenzene	ND	0.010		mg/L	1	4/12/2016 08:24 PM
Hexachlorobutadiene	ND	0.021		mg/L	1	4/12/2016 08:24 PM
Hexachloroethane	ND	0.010		mg/L	1	4/12/2016 08:24 PM
Nitrobenzene	ND	0.010		mg/L	1	4/12/2016 08:24 PM
Pentachlorophenol	ND	0.052		mg/L	1	4/12/2016 08:24 PM
Pyridine	ND	0.052		mg/L	1	4/12/2016 08:24 PM
Surr: 1,2-Dichlorobenzene-d4	76.7	16-120		%REC	1	4/12/2016 08:24 PM
Surr: 2,4,6-Tribromophenol	101	29-134		%REC	1	4/12/2016 08:24 PM
Surr: 2-Chlorophenol-d4	78.2	18-120		%REC	1	4/12/2016 08:24 PM
Surr: 2-Fluorobiphenyl	84.3	25-120		%REC	1	4/12/2016 08:24 PM
Surr: 2-Fluorophenol	60.7	16-120		%REC	1	4/12/2016 08:24 PM
Surr: 4-Terphenyl-d14	102	46-132		%REC	1	4/12/2016 08:24 PM
Surr: Nitrobenzene-d5	82.3	24-120		%REC	1	4/12/2016 08:24 PM
Surr: Phenol-d5	48.4	15-120		%REC	1	4/12/2016 08:24 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 02:44 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 02:44 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 02:44 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 02:44 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 02:44 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 02:44 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 02:44 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Chrysene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 02:44 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 02:44 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 02:44 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 02:44 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 02:44 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 02:44 PM
Surr: 1,2-Dichlorobenzene-d4	81.1	21-120		%REC	1	4/12/2016 02:44 PM
Surr: 2,4,6-Tribromophenol	78.9	25-129		%REC	1	4/12/2016 02:44 PM
Surr: 2-Chlorophenol-d4	79.7	24-120		%REC	1	4/12/2016 02:44 PM
Surr: 2-Fluorobiphenyl	86.9	33-120		%REC	1	4/12/2016 02:44 PM
Surr: 2-Fluorophenol	77.2	21-120		%REC	1	4/12/2016 02:44 PM
Surr: 4-Terphenyl-d14	98.3	37-135		%REC	1	4/12/2016 02:44 PM
Surr: Nitrobenzene-d5	84.6	26-120		%REC	1	4/12/2016 02:44 PM
Surr: Phenol-d5	80.7	25-120		%REC	1	4/12/2016 02:44 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160412A	QC Batch: R16VS060			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160412A QC Batch: R16VS060 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/12/2016 03:39 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
2-Butanone	ND	50		µg/Kg	1	4/12/2016 03:39 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Benzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Bromoform	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Bromomethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Chlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Chloroethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Chloroform	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Chloromethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM

Qualifiers:

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- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS8_160412A	QC Batch: R16VS060			PrepDate:		Analyst: **QBM**
Dibromomethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Ethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Freon-113	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
m,p-Xylene	ND	10		µg/Kg	1	4/12/2016 03:39 PM
Methylene chloride	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
MTBE	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Naphthalene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
o-Xylene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Styrene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Toluene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Trichloroethene	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Vinyl chloride	ND	5.0		µg/Kg	1	4/12/2016 03:39 PM
Surr: 1,2-Dichloroethane-d4	130	75-140		%REC	1	4/12/2016 03:39 PM
Surr: 4-Bromofluorobenzene	97.3	73-128		%REC	1	4/12/2016 03:39 PM
Surr: Dibromofluoromethane	127	78-133		%REC	1	4/12/2016 03:39 PM
Surr: Toluene-d8	105	80-120		%REC	1	4/12/2016 03:39 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3546			**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/8/2016 10:13 PM
ORO	ND	10		mg/Kg	1	4/8/2016 10:13 PM
Surr: p-Terphenyl	92.6	38-152		%REC	1	4/8/2016 10:13 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**

Qualifiers:

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H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
4,4´-DDE	4.3	2.0		µg/Kg	1	4/11/2016 06:35 PM
4,4´-DDT	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Aldrin	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
alpha-BHC	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
beta-BHC	6.7	1.0		µg/Kg	1	4/11/2016 06:35 PM
Chlordane	ND	8.5		µg/Kg	1	4/11/2016 06:35 PM
delta-BHC	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
Dieldrin	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Endosulfan I	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
Endosulfan II	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Endrin	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
Endrin ketone	ND	2.0		µg/Kg	1	4/11/2016 06:35 PM
gamma-BHC	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
Heptachlor	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	4/11/2016 06:35 PM
Methoxychlor	ND	8.5		µg/Kg	1	4/11/2016 06:35 PM
Toxaphene	ND	85		µg/Kg	1	4/11/2016 06:35 PM
Surr: Tetrachloro-m-xylene	50.5	26-120		%REC	1	4/11/2016 06:35 PM
Surr: Decachlorobiphenyl	56.1	31-131		%REC	1	4/11/2016 06:35 PM
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1232	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1242	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1248	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1254	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Aroclor 1260	ND	17		µg/Kg	1	4/11/2016 06:35 PM
Surr: Decachlorobiphenyl	78.7	34-147		%REC	1	4/11/2016 06:35 PM
Surr: Tetrachloro-m-xylene	67.3	30-118		%REC	1	4/11/2016 06:35 PM

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DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 06:32 PM
Surr: Chlorobenzene - d5	110	46-154		%REC	1	4/11/2016 06:32 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	0.98	0.20		mg/Kg	1	4/13/2016 01:20 AM
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC2_160411A	QC Batch: R106883			PrepDate:		Analyst: **QBM**
Sulfate	3500	250		mg/Kg	50	4/11/2016 02:16 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160411A	QC Batch: R106918			PrepDate:		Analyst: **RB**
Perchlorate	21000	2000		µg/Kg	100	4/11/2016 06:05 PM
MERCURY BY TCLP EXTRACTION						
		EPA 1311/ 7470A				
RunID: AA1_160412A	QC Batch: 56986			PrepDate:	4/12/2016	Analyst: **CEI**
Mercury	ND	0.50		µg/L	1	4/12/2016 04:33 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:56 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	8.8	1.0		mg/Kg	1	4/9/2016 09:07 PM
Barium	400	1.0		mg/Kg	1	4/9/2016 09:07 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 09:07 PM
Chromium	17	1.0		mg/Kg	1	4/9/2016 09:07 PM
Lead	32	1.0		mg/Kg	1	4/9/2016 09:07 PM
Magnesium	8800	10		mg/Kg	1	4/9/2016 09:07 PM
Manganese	8100	250		mg/Kg	25	4/11/2016 07:13 AM

Qualifiers:

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DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-001

Client Sample ID: BIN1-20160406
Collection Date: 4/6/2016 2:31:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Selenium	1.3	1.0		mg/Kg	1	4/9/2016 09:07 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 09:07 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	500	75		mg/Kg	5	4/11/2016 07:06 AM
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_160412D	QC Batch: 56983			PrepDate:	4/12/2016	Analyst: **CEI**
Arsenic	ND	0.050		mg/L	1	4/12/2016 09:20 PM
Barium	ND	0.20		mg/L	1	4/12/2016 09:20 PM
Cadmium	ND	0.050		mg/L	1	4/12/2016 09:20 PM
Chromium	ND	0.050		mg/L	1	4/12/2016 09:20 PM
Lead	ND	0.050		mg/L	1	4/12/2016 09:20 PM
Selenium	ND	0.050		mg/L	1	4/12/2016 09:20 PM
Silver	ND	0.050		mg/L	1	4/12/2016 09:20 PM

Qualifiers:

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H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE1A-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 2:10:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
		EPA 9045C				
RunID: WETCHEM_160408A	QC Batch: R106822			PrepDate:		Analyst: **LR**
pH	8.3	0.10		pH Units	1	4/8/2016 08:45 AM
Temp. at time of pH Analysis	22	0		°C	1	4/8/2016 08:45 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION						
	EPA 3510C			**EPA 1311/ 8270C**		
RunID: MS3_160412B	QC Batch: 56980			PrepDate:	4/12/2016	Analyst: **MDM**
3/4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 08:51 PM
1,4-Dichlorobenzene	ND	0.011		mg/L	1	4/12/2016 08:51 PM
2,4,5-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 08:51 PM
2,4,6-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 08:51 PM
2,4-Dinitrotoluene	ND	0.011		mg/L	1	4/12/2016 08:51 PM
2-Methylphenol	ND	0.011		mg/L	1	4/12/2016 08:51 PM
4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 08:51 PM
Hexachlorobenzene	ND	0.011		mg/L	1	4/12/2016 08:51 PM
Hexachlorobutadiene	ND	0.023		mg/L	1	4/12/2016 08:51 PM
Hexachloroethane	ND	0.011		mg/L	1	4/12/2016 08:51 PM
Nitrobenzene	ND	0.011		mg/L	1	4/12/2016 08:51 PM
Pentachlorophenol	ND	0.057		mg/L	1	4/12/2016 08:51 PM
Pyridine	ND	0.057		mg/L	1	4/12/2016 08:51 PM
Surr: 1,2-Dichlorobenzene-d4	68.6	16-120		%REC	1	4/12/2016 08:51 PM
Surr: 2,4,6-Tribromophenol	96.1	29-134		%REC	1	4/12/2016 08:51 PM
Surr: 2-Chlorophenol-d4	70.3	18-120		%REC	1	4/12/2016 08:51 PM
Surr: 2-Fluorobiphenyl	76.3	25-120		%REC	1	4/12/2016 08:51 PM
Surr: 2-Fluorophenol	57.2	16-120		%REC	1	4/12/2016 08:51 PM
Surr: 4-Terphenyl-d14	98.7	46-132		%REC	1	4/12/2016 08:51 PM
Surr: Nitrobenzene-d5	73.2	24-120		%REC	1	4/12/2016 08:51 PM
Surr: Phenol-d5	47.2	15-120		%REC	1	4/12/2016 08:51 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 03:11 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 03:11 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 03:11 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 03:11 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 03:11 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 03:11 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 03:11 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963				PrepDate: 4/11/2016	Analyst: **MDM**
Chrysene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 03:11 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Hexachlorobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 03:11 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 03:11 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 03:11 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 03:11 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 03:11 PM
Surr: 1,2-Dichlorobenzene-d4	87.5	21-120		%REC	1	4/12/2016 03:11 PM
Surr: 2,4,6-Tribromophenol	84.8	25-129		%REC	1	4/12/2016 03:11 PM
Surr: 2-Chlorophenol-d4	87.7	24-120		%REC	1	4/12/2016 03:11 PM
Surr: 2-Fluorobiphenyl	87.1	33-120		%REC	1	4/12/2016 03:11 PM
Surr: 2-Fluorophenol	88.7	21-120		%REC	1	4/12/2016 03:11 PM
Surr: 4-Terphenyl-d14	98.4	37-135		%REC	1	4/12/2016 03:11 PM
Surr: Nitrobenzene-d5	82.6	26-120		%REC	1	4/12/2016 03:11 PM
Surr: Phenol-d5	88.7	25-120		%REC	1	4/12/2016 03:11 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160412A	QC Batch: R16VS060				PrepDate:	Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE1A-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 2:10:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-002		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160412A QC Batch: R16VS060 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/12/2016 04:04 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
2-Butanone	ND	50		µg/Kg	1	4/12/2016 04:04 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Benzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Bromoform	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Bromomethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Chlorobenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Chloroethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Chloroform	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Chloromethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS8_160412A	QC Batch: R16VS060			PrepDate:		Analyst: **QBM**
Dibromomethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Ethylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Freon-113	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
m,p-Xylene	ND	10		µg/Kg	1	4/12/2016 04:04 PM
Methylene chloride	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
MTBE	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Naphthalene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
o-Xylene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Styrene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Toluene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Trichloroethene	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Vinyl chloride	ND	5.0		µg/Kg	1	4/12/2016 04:04 PM
Surr: 1,2-Dichloroethane-d4	134	75-140		%REC	1	4/12/2016 04:04 PM
Surr: 4-Bromofluorobenzene	101	73-128		%REC	1	4/12/2016 04:04 PM
Surr: Dibromofluoromethane	133	78-133	S	%REC	1	4/12/2016 04:04 PM
Surr: Toluene-d8	107	80-120		%REC	1	4/12/2016 04:04 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3546			**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	9.9		mg/Kg	1	4/8/2016 10:39 PM
ORO	ND	9.9		mg/Kg	1	4/8/2016 10:39 PM
Surr: p-Terphenyl	96.1	38-152		%REC	1	4/8/2016 10:39 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
4,4´-DDE	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
4,4´-DDT	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Aldrin	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
alpha-BHC	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
alpha-Chlordane	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
beta-BHC	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Chlordane	ND	8.4		µg/Kg	1	4/11/2016 06:58 PM
delta-BHC	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Dieldrin	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Endosulfan I	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Endosulfan II	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Endrin	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
Endrin ketone	ND	2.0		µg/Kg	1	4/11/2016 06:58 PM
gamma-BHC	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
gamma-Chlordane	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Heptachlor	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Heptachlor epoxide	ND	0.99		µg/Kg	1	4/11/2016 06:58 PM
Methoxychlor	ND	8.4		µg/Kg	1	4/11/2016 06:58 PM
Toxaphene	ND	84		µg/Kg	1	4/11/2016 06:58 PM
Surr: Tetrachloro-m-xylene	58.6	26-120		%REC	1	4/11/2016 06:58 PM
Surr: Decachlorobiphenyl	74.8	31-131		%REC	1	4/11/2016 06:58 PM
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 06:58 PM
Surr: Decachlorobiphenyl	88.6	34-147		%REC	1	4/11/2016 06:58 PM
Surr: Tetrachloro-m-xylene	66.7	30-118		%REC	1	4/11/2016 06:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 07:05 PM
Surr: Chlorobenzene - d5	115	46-154		%REC	1	4/11/2016 07:05 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	0.28	0.20		mg/Kg	1	4/13/2016 01:43 AM
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC2_160411A	QC Batch: R106883			PrepDate:		Analyst: **QBM**
Sulfate	700	50		mg/Kg	10	4/11/2016 12:27 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	4600	400		µg/Kg	20	4/12/2016 11:19 AM
MERCURY BY TCLP EXTRACTION						
		EPA 1311/ 7470A				
RunID: AA1_160412A	QC Batch: 56986			PrepDate:	4/12/2016	Analyst: **CEI**
Mercury	ND	0.50		µg/L	1	4/12/2016 04:36 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 09:58 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	5.3	1.0		mg/Kg	1	4/9/2016 09:15 PM
Barium	270	1.0		mg/Kg	1	4/9/2016 09:15 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 09:15 PM
Chromium	11	1.0		mg/Kg	1	4/9/2016 09:15 PM
Lead	24	1.0		mg/Kg	1	4/9/2016 09:15 PM
Magnesium	7700	10		mg/Kg	1	4/9/2016 09:15 PM
Manganese	980	50		mg/Kg	5	4/11/2016 07:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-002

Client Sample ID: STOCKPILE1A-20160406
Collection Date: 4/6/2016 2:10:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Selenium	ND	1.0		mg/Kg	1	4/9/2016 09:15 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 09:15 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	450	75		mg/Kg	5	4/11/2016 07:19 AM
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_160412D	QC Batch: 56983			PrepDate:	4/12/2016	Analyst: **CEI**
Arsenic	ND	0.050		mg/L	1	4/12/2016 09:31 PM
Barium	0.57	0.20		mg/L	1	4/12/2016 09:31 PM
Cadmium	ND	0.050		mg/L	1	4/12/2016 09:31 PM
Chromium	ND	0.050		mg/L	1	4/12/2016 09:31 PM
Lead	ND	0.050		mg/L	1	4/12/2016 09:31 PM
Selenium	ND	0.050		mg/L	1	4/12/2016 09:31 PM
Silver	ND	0.050		mg/L	1	4/12/2016 09:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
		EPA 9045C				
RunID: WETCHEM_160408A	QC Batch: R106822			PrepDate:		Analyst: **LR**
pH	8.2	0.10		pH Units	1	4/8/2016 08:45 AM
Temp. at time of pH Analysis	23	0		°C	1	4/8/2016 08:45 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION						
	EPA 3510C			**EPA 1311/ 8270C**		
RunID: MS3_160412B	QC Batch: 56980			PrepDate:	4/12/2016	Analyst: **MDM**
3/4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:18 PM
1,4-Dichlorobenzene	ND	0.011		mg/L	1	4/12/2016 09:18 PM
2,4,5-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 09:18 PM
2,4,6-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 09:18 PM
2,4-Dinitrotoluene	ND	0.011		mg/L	1	4/12/2016 09:18 PM
2-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:18 PM
4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:18 PM
Hexachlorobenzene	ND	0.011		mg/L	1	4/12/2016 09:18 PM
Hexachlorobutadiene	ND	0.022		mg/L	1	4/12/2016 09:18 PM
Hexachloroethane	ND	0.011		mg/L	1	4/12/2016 09:18 PM
Nitrobenzene	ND	0.011		mg/L	1	4/12/2016 09:18 PM
Pentachlorophenol	ND	0.055		mg/L	1	4/12/2016 09:18 PM
Pyridine	ND	0.055		mg/L	1	4/12/2016 09:18 PM
Surr: 1,2-Dichlorobenzene-d4	76.7	16-120		%REC	1	4/12/2016 09:18 PM
Surr: 2,4,6-Tribromophenol	99.6	29-134		%REC	1	4/12/2016 09:18 PM
Surr: 2-Chlorophenol-d4	79.6	18-120		%REC	1	4/12/2016 09:18 PM
Surr: 2-Fluorobiphenyl	82.5	25-120		%REC	1	4/12/2016 09:18 PM
Surr: 2-Fluorophenol	64.1	16-120		%REC	1	4/12/2016 09:18 PM
Surr: 4-Terphenyl-d14	99.1	46-132		%REC	1	4/12/2016 09:18 PM
Surr: Nitrobenzene-d5	79.5	24-120		%REC	1	4/12/2016 09:18 PM
Surr: Phenol-d5	53.8	15-120		%REC	1	4/12/2016 09:18 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412A QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2-Chlorophenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
2-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
2-Nitrophenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/12/2016 04:36 PM
3-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 04:36 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/12/2016 04:36 PM
4-Chloroaniline	ND	660		µg/Kg	1	4/12/2016 04:36 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/12/2016 04:36 PM
3/4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
4-Methylphenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
4-Nitroaniline	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
4-Nitrophenol	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
Acenaphthene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Acenaphthylene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Anthracene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/12/2016 04:36 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Benzyl alcohol	ND	660		µg/Kg	1	4/12/2016 04:36 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412A	QC Batch: 56963				PrepDate: 4/11/2016	Analyst: **MDM**
Chrysene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/12/2016 04:36 PM
Dibenzofuran	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Diethylphthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Dimethylphthalate	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Fluoranthene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Fluorene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Hexachlorobenzene	440	330		µg/Kg	1	4/12/2016 04:36 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/12/2016 04:36 PM
Hexachloroethane	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Isophorone	ND	330		µg/Kg	1	4/12/2016 04:36 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/12/2016 04:36 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Naphthalene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Nitrobenzene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Pentachlorophenol	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
Phenanthrene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Phenol	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Pyrene	ND	330		µg/Kg	1	4/12/2016 04:36 PM
Pyridine	ND	1600		µg/Kg	1	4/12/2016 04:36 PM
Surr: 1,2-Dichlorobenzene-d4	81.1	21-120		%REC	1	4/12/2016 04:36 PM
Surr: 2,4,6-Tribromophenol	84.0	25-129		%REC	1	4/12/2016 04:36 PM
Surr: 2-Chlorophenol-d4	81.8	24-120		%REC	1	4/12/2016 04:36 PM
Surr: 2-Fluorobiphenyl	82.3	33-120		%REC	1	4/12/2016 04:36 PM
Surr: 2-Fluorophenol	79.2	21-120		%REC	1	4/12/2016 04:36 PM
Surr: 4-Terphenyl-d14	97.6	37-135		%REC	1	4/12/2016 04:36 PM
Surr: Nitrobenzene-d5	82.9	26-120		%REC	1	4/12/2016 04:36 PM
Surr: Phenol-d5	82.2	25-120		%REC	1	4/12/2016 04:36 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160411A	QC Batch: R16VS059				PrepDate:	Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE1B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 2:22:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-003		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160411A QC Batch: R16VS059 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/11/2016 07:28 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
2-Butanone	ND	50		µg/Kg	1	4/11/2016 07:28 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Benzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Bromoform	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Bromomethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Chlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Chloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Chloroform	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Chloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE1B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 2:22:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS8_160411A	QC Batch: R16VS059			PrepDate:		Analyst: **QBM**
Dibromomethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Ethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Freon-113	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
m,p-Xylene	ND	10		µg/Kg	1	4/11/2016 07:28 PM
Methylene chloride	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
MTBE	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Naphthalene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
o-Xylene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Styrene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Toluene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Trichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Vinyl chloride	ND	5.0		µg/Kg	1	4/11/2016 07:28 PM
Surr: 1,2-Dichloroethane-d4	126	75-140		%REC	1	4/11/2016 07:28 PM
Surr: 4-Bromofluorobenzene	95.4	73-128		%REC	1	4/11/2016 07:28 PM
Surr: Dibromofluoromethane	123	78-133		%REC	1	4/11/2016 07:28 PM
Surr: Toluene-d8	103	80-120		%REC	1	4/11/2016 07:28 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3546			**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	ND	10		mg/Kg	1	4/8/2016 11:05 PM
ORO	ND	10		mg/Kg	1	4/8/2016 11:05 PM
Surr: p-Terphenyl	97.0	38-152		%REC	1	4/8/2016 11:05 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
4,4´-DDE	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
4,4´-DDT	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Aldrin	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
alpha-BHC	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
alpha-Chlordane	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
beta-BHC	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Chlordane	ND	8.4		µg/Kg	1	4/11/2016 07:20 PM
delta-BHC	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Dieldrin	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Endosulfan I	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Endosulfan II	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Endrin	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
Endrin ketone	ND	2.0		µg/Kg	1	4/11/2016 07:20 PM
gamma-BHC	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
gamma-Chlordane	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Heptachlor	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Heptachlor epoxide	ND	0.99		µg/Kg	1	4/11/2016 07:20 PM
Methoxychlor	ND	8.4		µg/Kg	1	4/11/2016 07:20 PM
Toxaphene	ND	84		µg/Kg	1	4/11/2016 07:20 PM
Surr: Tetrachloro-m-xylene	50.4	26-120		%REC	1	4/11/2016 07:20 PM
Surr: Decachlorobiphenyl	71.7	31-131		%REC	1	4/11/2016 07:20 PM
PCBS BY GC/ECD						
	EPA 3546			**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 07:20 PM
Surr: Decachlorobiphenyl	88.1	34-147		%REC	1	4/11/2016 07:20 PM
Surr: Tetrachloro-m-xylene	58.8	30-118		%REC	1	4/11/2016 07:20 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 07:39 PM
Surr: Chlorobenzene - d5	117	46-154		%REC	1	4/11/2016 07:39 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	0.26	0.20		mg/Kg	1	4/12/2016 10:18 PM
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC2_160411A	QC Batch: R106883			PrepDate:		Analyst: **QBM**
Sulfate	480	50		mg/Kg	10	4/11/2016 01:29 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	6100	400		µg/Kg	20	4/12/2016 11:55 AM
MERCURY BY TCLP EXTRACTION						
		EPA 1311/ 7470A				
RunID: AA1_160412A	QC Batch: 56986			PrepDate:	4/12/2016	Analyst: **CEI**
Mercury	ND	0.50		µg/L	1	4/12/2016 04:44 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	ND	0.10		mg/Kg	1	4/9/2016 10:01 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	5.0	1.0		mg/Kg	1	4/9/2016 09:21 PM
Barium	150	1.0		mg/Kg	1	4/9/2016 09:21 PM
Cadmium	ND	1.0		mg/Kg	1	4/9/2016 09:21 PM
Chromium	10	1.0		mg/Kg	1	4/9/2016 09:21 PM
Lead	18	1.0		mg/Kg	1	4/9/2016 09:21 PM
Magnesium	6200	10		mg/Kg	1	4/9/2016 09:21 PM
Manganese	1600	50		mg/Kg	5	4/11/2016 07:41 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-003

Client Sample ID: STOCKPILE1B-20160406
Collection Date: 4/6/2016 2:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Selenium	ND	1.0		mg/Kg	1	4/9/2016 09:21 PM
Silver	ND	1.0		mg/Kg	1	4/9/2016 09:21 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	350	75		mg/Kg	5	4/11/2016 07:41 AM
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_160412D	QC Batch: 56983			PrepDate:	4/12/2016	Analyst: **CEI**
Arsenic	ND	0.050		mg/L	1	4/13/2016 02:09 AM
Barium	0.52	0.20		mg/L	1	4/13/2016 02:09 AM
Cadmium	ND	0.050		mg/L	1	4/13/2016 02:09 AM
Chromium	ND	0.050		mg/L	1	4/13/2016 02:09 AM
Lead	ND	0.050		mg/L	1	4/13/2016 02:09 AM
Selenium	ND	0.050		mg/L	1	4/13/2016 02:09 AM
Silver	ND	0.050		mg/L	1	4/13/2016 02:09 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-004

Client Sample ID: STOCKPILE2A-20160406
Collection Date: 4/6/2016 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
		EPA 9045C				
RunID: WETCHEM_160408A	QC Batch: R106822			PrepDate:		Analyst: **LR**
pH	7.9	0.10		pH Units	1	4/8/2016 08:45 AM
Temp. at time of pH Analysis	23	0		°C	1	4/8/2016 08:45 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION						
	EPA 3510C			**EPA 1311/ 8270C**		
RunID: MS3_160412B	QC Batch: 56980			PrepDate:	4/12/2016	Analyst: **MDM**
3/4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:44 PM
1,4-Dichlorobenzene	ND	0.011		mg/L	1	4/12/2016 09:44 PM
2,4,5-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 09:44 PM
2,4,6-Trichlorophenol	ND	0.011		mg/L	1	4/12/2016 09:44 PM
2,4-Dinitrotoluene	ND	0.011		mg/L	1	4/12/2016 09:44 PM
2-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:44 PM
4-Methylphenol	ND	0.011		mg/L	1	4/12/2016 09:44 PM
Hexachlorobenzene	ND	0.011		mg/L	1	4/12/2016 09:44 PM
Hexachlorobutadiene	ND	0.022		mg/L	1	4/12/2016 09:44 PM
Hexachloroethane	ND	0.011		mg/L	1	4/12/2016 09:44 PM
Nitrobenzene	ND	0.011		mg/L	1	4/12/2016 09:44 PM
Pentachlorophenol	ND	0.055		mg/L	1	4/12/2016 09:44 PM
Pyridine	ND	0.055		mg/L	1	4/12/2016 09:44 PM
Surr: 1,2-Dichlorobenzene-d4	76.0	16-120		%REC	1	4/12/2016 09:44 PM
Surr: 2,4,6-Tribromophenol	101	29-134		%REC	1	4/12/2016 09:44 PM
Surr: 2-Chlorophenol-d4	77.7	18-120		%REC	1	4/12/2016 09:44 PM
Surr: 2-Fluorobiphenyl	84.1	25-120		%REC	1	4/12/2016 09:44 PM
Surr: 2-Fluorophenol	64.0	16-120		%REC	1	4/12/2016 09:44 PM
Surr: 4-Terphenyl-d14	100	46-132		%REC	1	4/12/2016 09:44 PM
Surr: Nitrobenzene-d5	81.8	24-120		%REC	1	4/12/2016 09:44 PM
Surr: Phenol-d5	52.7	15-120		%REC	1	4/12/2016 09:44 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-004

Client Sample ID: STOCKPILE2A-20160406
Collection Date: 4/6/2016 1:40:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dichlorophenol	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2-Chlorophenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2-Methylphenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
2-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
2-Nitrophenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/13/2016 02:36 AM
3-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 02:36 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/13/2016 02:36 AM
4-Chloroaniline	ND	660		µg/Kg	1	4/13/2016 02:36 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 02:36 AM
3/4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
4-Nitroaniline	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
4-Nitrophenol	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
Acenaphthene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Acenaphthylene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Anthracene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/13/2016 02:36 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Benzyl alcohol	ND	660		µg/Kg	1	4/13/2016 02:36 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-004

Client Sample ID: STOCKPILE2A-20160406
Collection Date: 4/6/2016 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963				PrepDate: 4/11/2016	Analyst: **MDM**
Chrysene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/13/2016 02:36 AM
Dibenzofuran	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Diethylphthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Dimethylphthalate	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Fluoranthene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Fluorene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Hexachlorobenzene	2800	330		µg/Kg	1	4/13/2016 02:36 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/13/2016 02:36 AM
Hexachloroethane	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Isophorone	ND	330		µg/Kg	1	4/13/2016 02:36 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/13/2016 02:36 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Naphthalene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Nitrobenzene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Pentachlorophenol	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
Phenanthrene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Phenol	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Pyrene	ND	330		µg/Kg	1	4/13/2016 02:36 AM
Pyridine	ND	1600		µg/Kg	1	4/13/2016 02:36 AM
Surr: 1,2-Dichlorobenzene-d4	80.5	21-120		%REC	1	4/13/2016 02:36 AM
Surr: 2,4,6-Tribromophenol	46.4	25-129		%REC	1	4/13/2016 02:36 AM
Surr: 2-Chlorophenol-d4	68.5	24-120		%REC	1	4/13/2016 02:36 AM
Surr: 2-Fluorobiphenyl	88.0	33-120		%REC	1	4/13/2016 02:36 AM
Surr: 2-Fluorophenol	60.9	21-120		%REC	1	4/13/2016 02:36 AM
Surr: 4-Terphenyl-d14	102	37-135		%REC	1	4/13/2016 02:36 AM
Surr: Nitrobenzene-d5	84.4	26-120		%REC	1	4/13/2016 02:36 AM
Surr: Phenol-d5	74.9	25-120		%REC	1	4/13/2016 02:36 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160411A	QC Batch: R16VS059				PrepDate:	Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2A-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:40:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-004		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160411A QC Batch: R16VS059 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/11/2016 07:54 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
2-Butanone	ND	50		µg/Kg	1	4/11/2016 07:54 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Benzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Bromoform	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Bromomethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Chlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Chloroethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Chloroform	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Chloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2A-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:40:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS8_160411A	QC Batch: R16VS059			PrepDate:		Analyst: **QBM**
Dibromomethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Ethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Freon-113	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
m,p-Xylene	ND	10		µg/Kg	1	4/11/2016 07:54 PM
Methylene chloride	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
MTBE	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Naphthalene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
o-Xylene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Styrene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Toluene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Trichloroethene	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Vinyl chloride	ND	5.0		µg/Kg	1	4/11/2016 07:54 PM
Surr: 1,2-Dichloroethane-d4	136	75-140		%REC	1	4/11/2016 07:54 PM
Surr: 4-Bromofluorobenzene	95.7	73-128		%REC	1	4/11/2016 07:54 PM
Surr: Dibromofluoromethane	132	78-133		%REC	1	4/11/2016 07:54 PM
Surr: Toluene-d8	105	80-120		%REC	1	4/11/2016 07:54 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3546			**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	16	10		mg/Kg	1	4/8/2016 11:30 PM
ORO	20	10		mg/Kg	1	4/8/2016 11:30 PM
Surr: p-Terphenyl	96.5	38-152		%REC	1	4/8/2016 11:30 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2A-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:40:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3546				**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
4,4´-DDE	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
4,4´-DDT	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Aldrin	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
alpha-BHC	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
beta-BHC	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Chlordane	ND	8.5		µg/Kg	1	4/11/2016 07:43 PM
delta-BHC	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Dieldrin	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Endosulfan I	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Endosulfan II	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Endrin	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
Endrin ketone	ND	2.0		µg/Kg	1	4/11/2016 07:43 PM
gamma-BHC	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Heptachlor	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	4/11/2016 07:43 PM
Methoxychlor	ND	8.5		µg/Kg	1	4/11/2016 07:43 PM
Toxaphene	ND	85		µg/Kg	1	4/11/2016 07:43 PM
Surr: Tetrachloro-m-xylene	65.8	26-120		%REC	1	4/11/2016 07:43 PM
Surr: Decachlorobiphenyl	232	31-131	S	%REC	1	4/11/2016 07:43 PM
PCBS BY GC/ECD						
EPA 3546				**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1232	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1242	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1248	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1254	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Aroclor 1260	ND	16		µg/Kg	1	4/11/2016 07:43 PM
Surr: Decachlorobiphenyl	265	34-147	S	%REC	1	4/11/2016 07:43 PM
Surr: Tetrachloro-m-xylene	72.9	30-118		%REC	1	4/11/2016 07:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-004

Client Sample ID: STOCKPILE2A-20160406
Collection Date: 4/6/2016 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 08:13 PM
Surr: Chlorobenzene - d5	114	46-154		%REC	1	4/11/2016 08:13 PM
HEXAVALENT CHROMIUM BY IC						
		EPA 3060A			**EPA 7199**	
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	5.1	0.20		mg/Kg	1	4/12/2016 10:41 PM
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC2_160411A	QC Batch: R106883			PrepDate:		Analyst: **QBM**
Sulfate	410	50		mg/Kg	10	4/11/2016 01:45 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	570	100		µg/Kg	5	4/12/2016 12:32 PM
MERCURY BY TCLP EXTRACTION						
		EPA 1311/ 7470A				
RunID: AA1_160412A	QC Batch: 56986			PrepDate:	4/12/2016	Analyst: **CEI**
Mercury	ND	0.50		µg/L	1	4/12/2016 04:52 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	1.2	0.10		mg/Kg	1	4/9/2016 10:04 AM
TOTAL METALS BY ICP						
		EPA 3050B			**EPA 6010B**	
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	23	1.0		mg/Kg	1	4/11/2016 07:53 AM
Barium	990	1.0		mg/Kg	1	4/11/2016 07:53 AM
Cadmium	ND	1.0		mg/Kg	1	4/11/2016 07:53 AM
Chromium	25	1.0		mg/Kg	1	4/11/2016 07:53 AM
Lead	250	1.0		mg/Kg	1	4/11/2016 07:53 AM
Magnesium	6000	10		mg/Kg	1	4/11/2016 07:53 AM
Manganese	18000	500		mg/Kg	50	4/11/2016 12:28 PM

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-004

Client Sample ID: STOCKPILE2A-20160406
Collection Date: 4/6/2016 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Selenium	3.4	1.0		mg/Kg	1	4/11/2016 07:53 AM
Silver	1.2	1.0		mg/Kg	1	4/11/2016 07:53 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	490	75		mg/Kg	5	4/11/2016 07:59 AM
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_160412D	QC Batch: 56983			PrepDate:	4/12/2016	Analyst: **CEI**
Arsenic	ND	0.050		mg/L	1	4/13/2016 02:14 AM
Barium	0.70	0.20		mg/L	1	4/13/2016 02:14 AM
Cadmium	ND	0.050		mg/L	1	4/13/2016 02:14 AM
Chromium	ND	0.050		mg/L	1	4/13/2016 02:14 AM
Lead	ND	0.050		mg/L	1	4/13/2016 02:14 AM
Selenium	ND	0.050		mg/L	1	4/13/2016 02:14 AM
Silver	ND	0.050		mg/L	1	4/13/2016 02:14 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:57:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
PH						
		EPA 9045C				
RunID: WETCHEM_160408A	QC Batch: R106822			PrepDate:		Analyst: **LR**
pH	7.7	0.10		pH Units	1	4/8/2016 08:45 AM
Temp. at time of pH Analysis	22	0		°C	1	4/8/2016 08:45 AM
SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION						
	EPA 3510C			**EPA 1311/ 8270C**		
RunID: MS3_160412B	QC Batch: 56980			PrepDate:	4/12/2016	Analyst: **MDM**
3/4-Methylphenol	ND	0.010		mg/L	1	4/12/2016 10:11 PM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	4/12/2016 10:11 PM
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	4/12/2016 10:11 PM
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	4/12/2016 10:11 PM
2,4-Dinitrotoluene	ND	0.010		mg/L	1	4/12/2016 10:11 PM
2-Methylphenol	ND	0.010		mg/L	1	4/12/2016 10:11 PM
4-Methylphenol	ND	0.010		mg/L	1	4/12/2016 10:11 PM
Hexachlorobenzene	ND	0.010		mg/L	1	4/12/2016 10:11 PM
Hexachlorobutadiene	ND	0.020		mg/L	1	4/12/2016 10:11 PM
Hexachloroethane	ND	0.010		mg/L	1	4/12/2016 10:11 PM
Nitrobenzene	ND	0.010		mg/L	1	4/12/2016 10:11 PM
Pentachlorophenol	ND	0.050		mg/L	1	4/12/2016 10:11 PM
Pyridine	ND	0.050		mg/L	1	4/12/2016 10:11 PM
Surr: 1,2-Dichlorobenzene-d4	67.9	16-120		%REC	1	4/12/2016 10:11 PM
Surr: 2,4,6-Tribromophenol	98.8	29-134		%REC	1	4/12/2016 10:11 PM
Surr: 2-Chlorophenol-d4	67.6	18-120		%REC	1	4/12/2016 10:11 PM
Surr: 2-Fluorobiphenyl	74.2	25-120		%REC	1	4/12/2016 10:11 PM
Surr: 2-Fluorophenol	52.9	16-120		%REC	1	4/12/2016 10:11 PM
Surr: 4-Terphenyl-d14	100	46-132		%REC	1	4/12/2016 10:11 PM
Surr: Nitrobenzene-d5	72.6	24-120		%REC	1	4/12/2016 10:11 PM
Surr: Phenol-d5	42.2	15-120		%REC	1	4/12/2016 10:11 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
	EPA 3546			**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-005

Client Sample ID: STOCKPILE2B-20160406
Collection Date: 4/6/2016 1:57:00 PM
Matrix: SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3546 **EPA 8270C**

RunID: MS3_160412C QC Batch: 56963 PrepDate: 4/11/2016 Analyst: **MDM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dichlorophenol	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
2,4-Dimethylphenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2,4-Dinitrophenol	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2-Chloronaphthalene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2-Chlorophenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2-Methylnaphthalene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
2-Nitroaniline	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
2-Nitrophenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
3,3´-Dichlorobenzidine	ND	660		µg/Kg	1	4/13/2016 03:02 AM
3-Nitroaniline	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
4,6-Dinitro-2-methylphenol	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 03:02 AM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	4/13/2016 03:02 AM
4-Chloroaniline	ND	660		µg/Kg	1	4/13/2016 03:02 AM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	4/13/2016 03:02 AM
3/4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
4-Methylphenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
4-Nitroaniline	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
4-Nitrophenol	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
Acenaphthene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Acenaphthylene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Anthracene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Benzo(a)pyrene	ND	200		µg/Kg	1	4/13/2016 03:02 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Benzyl alcohol	ND	660		µg/Kg	1	4/13/2016 03:02 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM

Qualifiers:

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H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:57:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3546				**EPA 8270C**		
RunID: MS3_160412C	QC Batch: 56963			PrepDate:	4/11/2016	Analyst: **MDM**
Chrysene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Dibenz(a,h)anthracene	ND	200		µg/Kg	1	4/13/2016 03:02 AM
Dibenzofuran	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Diethylphthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Dimethylphthalate	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Fluoranthene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Fluorene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Hexachlorobenzene	5700	330		µg/Kg	1	4/13/2016 03:02 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	4/13/2016 03:02 AM
Hexachloroethane	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Isophorone	ND	330		µg/Kg	1	4/13/2016 03:02 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	4/13/2016 03:02 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Naphthalene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Nitrobenzene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Pentachlorophenol	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
Phenanthrene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Phenol	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Pyrene	ND	330		µg/Kg	1	4/13/2016 03:02 AM
Pyridine	ND	1700		µg/Kg	1	4/13/2016 03:02 AM
Surr: 1,2-Dichlorobenzene-d4	82.1	21-120		%REC	1	4/13/2016 03:02 AM
Surr: 2,4,6-Tribromophenol	56.5	25-129		%REC	1	4/13/2016 03:02 AM
Surr: 2-Chlorophenol-d4	72.2	24-120		%REC	1	4/13/2016 03:02 AM
Surr: 2-Fluorobiphenyl	88.3	33-120		%REC	1	4/13/2016 03:02 AM
Surr: 2-Fluorophenol	64.7	21-120		%REC	1	4/13/2016 03:02 AM
Surr: 4-Terphenyl-d14	104	37-135		%REC	1	4/13/2016 03:02 AM
Surr: Nitrobenzene-d5	85.4	26-120		%REC	1	4/13/2016 03:02 AM
Surr: Phenol-d5	75.0	25-120		%REC	1	4/13/2016 03:02 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS8_160411A	QC Batch: R16VS059			PrepDate:		Analyst: **QBM**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:57:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-005		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS8_160411A QC Batch: R16VS059 PrepDate: Analyst: **QBM**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/11/2016 08:21 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
2-Butanone	ND	50		µg/Kg	1	4/11/2016 08:21 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Benzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Bromoform	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Bromomethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Chlorobenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Chloroethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Chloroform	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Chloromethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Dibromochloromethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-005

Client Sample ID: STOCKPILE2B-20160406
Collection Date: 4/6/2016 1:57:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS8_160411A	QC Batch: R16VS059			PrepDate:		Analyst: **QBM**
Dibromomethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Ethylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Freon-113	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
m,p-Xylene	ND	10		µg/Kg	1	4/11/2016 08:21 PM
Methylene chloride	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
MTBE	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Naphthalene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
o-Xylene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Styrene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Toluene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Trichloroethene	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Vinyl chloride	ND	5.0		µg/Kg	1	4/11/2016 08:21 PM
Surr: 1,2-Dichloroethane-d4	138	75-140		%REC	1	4/11/2016 08:21 PM
Surr: 4-Bromofluorobenzene	99.8	73-128		%REC	1	4/11/2016 08:21 PM
Surr: Dibromofluoromethane	133	78-133	S	%REC	1	4/11/2016 08:21 PM
Surr: Toluene-d8	109	80-120		%REC	1	4/11/2016 08:21 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3546			**EPA 8015B**		
RunID: GC1_160408B	QC Batch: 56934			PrepDate:	4/8/2016	Analyst: **MDM**
DRO	20	10		mg/Kg	1	4/8/2016 11:56 PM
ORO	27	10		mg/Kg	1	4/8/2016 11:56 PM
Surr: p-Terphenyl	101	38-152		%REC	1	4/8/2016 11:56 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3546			**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ramboll Environ	**Client Sample ID:**	STOCKPILE2B-20160406
Lab Order:	N019343	**Collection Date:**	4/6/2016 1:57:00 PM
Project:	NERT, 2138800A, F07	**Matrix:**	SOIL
Lab ID:	N019343-005		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3546				**EPA 8081A**		
RunID: GC7_160411B	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
4,4´-DDD	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
4,4´-DDE	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
4,4´-DDT	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Aldrin	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
alpha-BHC	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
beta-BHC	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Chlordane	ND	8.5		µg/Kg	1	4/11/2016 08:06 PM
delta-BHC	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Dieldrin	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Endosulfan I	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Endosulfan II	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Endrin	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
Endrin ketone	ND	2.0		µg/Kg	1	4/11/2016 08:06 PM
gamma-BHC	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Heptachlor	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	4/11/2016 08:06 PM
Methoxychlor	ND	8.5		µg/Kg	1	4/11/2016 08:06 PM
Toxaphene	ND	85		µg/Kg	1	4/11/2016 08:06 PM
Surr: Tetrachloro-m-xylene	75.3	26-120		%REC	1	4/11/2016 08:06 PM
Surr: Decachlorobiphenyl	1580	31-131	SE	%REC	1	4/11/2016 08:06 PM
PCBS BY GC/ECD						
EPA 3546				**EPA 8082**		
RunID: GC7_160411A	QC Batch: 56962			PrepDate:	4/11/2016	Analyst: **MDM**
Aroclor 1016	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1221	ND	33		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1232	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1242	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1248	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1254	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Aroclor 1260	ND	17		µg/Kg	1	4/11/2016 08:06 PM
Surr: Decachlorobiphenyl	1880	34-147	SE	%REC	1	4/11/2016 08:06 PM
Surr: Tetrachloro-m-xylene	85.3	30-118		%REC	1	4/11/2016 08:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-005

Client Sample ID: STOCKPILE2B-20160406
Collection Date: 4/6/2016 1:57:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
		EPA 8015B				
RunID: GC4_160411A	QC Batch: E16VS051			PrepDate:		Analyst: **QBM**
GRO	ND	1.0		mg/Kg	1	4/11/2016 08:46 PM
Surr: Chlorobenzene - d5	111	46-154		%REC	1	4/11/2016 08:46 PM
HEXAVALENT CHROMIUM BY IC						
	EPA 3060A			**EPA 7199**		
RunID: IC1_160412A	QC Batch: 56948			PrepDate:	4/8/2016	Analyst: **JJS**
Hexavalent Chromium	15	0.20		mg/Kg	1	4/12/2016 11:03 PM
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC2_160411A	QC Batch: R106883			PrepDate:		Analyst: **QBM**
Sulfate	300	25		mg/Kg	5	4/11/2016 04:21 PM
PERCHLORATE BY ION CHROMATOGRAPHY						
		EPA 314(M)				
RunID: IC5_160412A	QC Batch: R106922			PrepDate:		Analyst: **RB**
Perchlorate	690	100		µg/Kg	5	4/12/2016 01:46 PM
MERCURY BY TCLP EXTRACTION						
		EPA 1311/ 7470A				
RunID: AA1_160412A	QC Batch: 56986			PrepDate:	4/12/2016	Analyst: **CEI**
Mercury	0.61	0.50		µg/L	1	4/12/2016 04:55 PM
TOTAL MERCURY BY COLD VAPOR TECHNIQUE						
		EPA 7471A				
RunID: AA1_160409A	QC Batch: 56924			PrepDate:	4/8/2016	Analyst: **CEI**
Mercury	0.72	0.10		mg/Kg	1	4/9/2016 10:12 AM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Arsenic	120	1.0		mg/Kg	1	4/9/2016 09:34 PM
Barium	4200	1.0		mg/Kg	1	4/9/2016 09:34 PM
Cadmium	1.6	1.0		mg/Kg	1	4/9/2016 09:34 PM
Chromium	150	1.0		mg/Kg	1	4/9/2016 09:34 PM
Lead	1100	1.0		mg/Kg	1	4/9/2016 09:34 PM
Magnesium	6800	10		mg/Kg	1	4/9/2016 09:34 PM
Manganese	29000	500		mg/Kg	50	4/11/2016 12:34 PM

Qualifiers:

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H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Ramboll Environ
Lab Order: N019343
Project: NERT, 2138800A, F07
Lab ID: N019343-005

Client Sample ID: STOCKPILE2B-20160406
Collection Date: 4/6/2016 1:57:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160409B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Selenium	14	1.0		mg/Kg	1	4/9/2016 09:34 PM
Silver	6.1	1.0		mg/Kg	1	4/9/2016 09:34 PM
TOTAL METALS BY ICP						
	EPA 3050B			**EPA 6010B**		
RunID: ICP2_160410B	QC Batch: 56941			PrepDate:	4/8/2016	Analyst: **CEI**
Titanium	1200	370		mg/Kg	25	4/11/2016 08:12 AM
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: ICP2_160412D	QC Batch: 56983			PrepDate:	4/12/2016	Analyst: **CEI**
Arsenic	0.055	0.050		mg/L	1	4/13/2016 02:19 AM
Barium	1.2	0.20		mg/L	1	4/13/2016 02:19 AM
Cadmium	ND	0.050		mg/L	1	4/13/2016 02:19 AM
Chromium	0.092	0.050		mg/L	1	4/13/2016 02:19 AM
Lead	ND	0.050		mg/L	1	4/13/2016 02:19 AM
Selenium	ND	0.050		mg/L	1	4/13/2016 02:19 AM
Silver	ND	0.050		mg/L	1	4/13/2016 02:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_S

Sample ID: **MB-R106883**	SampType: **MBLK**	TestCode: **300_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106883**
Client ID: **PBS**	Batch ID: **R106883**	TestNo: **EPA 300.0**		Analysis Date: **4/11/2016**	SeqNo: **2293280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	5.0									

Sample ID: **LCS-R106883**	SampType: **LCS**	TestCode: **300_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106883**
Client ID: **LCSS**	Batch ID: **R106883**	TestNo: **EPA 300.0**		Analysis Date: **4/11/2016**	SeqNo: **2293281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	49.130	5.0	50.00	0	98.3	90	110				

Sample ID: **N019343-002EDUP**	SampType: **DUP**	TestCode: **300_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106883**
Client ID: **ZZZZZZ**	Batch ID: **R106883**	TestNo: **EPA 300.0**		Analysis Date: **4/11/2016**	SeqNo: **2293297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	684.900	50						698.2	1.92	20	

Sample ID: **N019343-002EMS**	SampType: **MS**	TestCode: **300_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106883**
Client ID: **ZZZZZZ**	Batch ID: **R106883**	TestNo: **EPA 300.0**		Analysis Date: **4/11/2016**	SeqNo: **2293298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	685.900	50	50.00	698.2	-24.6	80	120				S

Sample ID: **N019343-002EMSD**	SampType: **MSD**	TestCode: **300_S**	Units: **mg/Kg**	Prep Date:	RunNo: **106883**
Client ID: **ZZZZZZ**	Batch ID: **R106883**	TestNo: **EPA 300.0**		Analysis Date: **4/11/2016**	SeqNo: **2293299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	711.700	50	50.00	698.2	27.0	80	120	685.9	3.69	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_S

Sample ID: **N019343-002EPS** SampType: **MS** TestCode: **300_S** Units: **mg/Kg** Prep Date: RunNo: **106883**
Client ID: **ZZZZZZ** Batch ID: **R106883** TestNo: **EPA 300.0** Analysis Date: **4/11/2016** SeqNo: **2293301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1202.100	50	500.0	698.2	101	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **MB-R106918** SampType: **MBLK** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106918**
Client ID: **PBS** Batch ID: **R106918** TestNo: **EPA 314(M)** Analysis Date: **4/11/2016** SeqNo: **2295403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	ND	20									

Sample ID: **LCS-R106918** SampType: **LCS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106918**
Client ID: **LCSS** Batch ID: **R106918** TestNo: **EPA 314(M)** Analysis Date: **4/11/2016** SeqNo: **2295404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	231.499	20	250.0	0	92.6	85	115				

Sample ID: **N019342-001CDUP** SampType: **DUP** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106918**
Client ID: **ZZZZZZ** Batch ID: **R106918** TestNo: **EPA 314(M)** Analysis Date: **4/11/2016** SeqNo: **2295410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	32209.300	2000						30950	3.98	15	

Sample ID: **N019342-001CPS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106918**
Client ID: **ZZZZZZ** Batch ID: **R106918** TestNo: **EPA 314(M)** Analysis Date: **4/11/2016** SeqNo: **2295413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	40896.700	2000	10000	30950	99.4	80	120				

Sample ID: **N019342-001CPSD** SampType: **MSD** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106918**
Client ID: **ZZZZZZ** Batch ID: **R106918** TestNo: **EPA 314(M)** Analysis Date: **4/11/2016** SeqNo: **2295414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	41469.300	2000	10000	30950	105	80	120	40900	1.39	15	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019342-004CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	206.764	20	100.0	99.90	107	80	120				

Sample ID: **N019342-005CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106918**
Client ID: **ZZZZZZ**	Batch ID: **R106918**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	219.327	20	100.0	108.1	111	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019342-007CMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	211.805	20	100.0	120.1	91.7	80	120				

Sample ID: **N019343-001EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	32044.500	2000	10000	21200	108	80	120				

Sample ID: **N019343-002EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295448**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	6289.760	400	2000	4555	86.7	80	120				

Sample ID: **N019343-003EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	7935.980	400	2000	6144	89.6	80	120				

Sample ID: **N019343-004EMS**	SampType: **MS**	TestCode: **314_S**	Units: **µg/Kg**	Prep Date:	RunNo: **106922**
Client ID: **ZZZZZZ**	Batch ID: **R106922**	TestNo: **EPA 314(M)**		Analysis Date: **4/12/2016**	SeqNo: **2295452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1051.040	100	500.0	572.7	95.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 314_S

Sample ID: **N019343-005EMS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106922**
Client ID: **ZZZZZZ** Batch ID: **R106922** TestNo: **EPA 314(M)** Analysis Date: **4/12/2016** SeqNo: **2295456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1166.080	100	500.0	691.6	94.9	80	120				

Sample ID: **N019342-002CMS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106922**
Client ID: **ZZZZZZ** Batch ID: **R106922** TestNo: **EPA 314(M)** Analysis Date: **4/12/2016** SeqNo: **2295457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	27783.600	2000	10000	19040	87.5	80	120				

Sample ID: **N019342-006CMS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106922**
Client ID: **ZZZZZZ** Batch ID: **R106922** TestNo: **EPA 314(M)** Analysis Date: **4/12/2016** SeqNo: **2295459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1201.800	100	500.0	693.3	102	80	120				

Sample ID: **N019342-008CMS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106922**
Client ID: **ZZZZZZ** Batch ID: **R106922** TestNo: **EPA 314(M)** Analysis Date: **4/12/2016** SeqNo: **2295461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	1265.560	100	500.0	768.1	99.5	80	120				

Sample ID: **N019342-003CMS** SampType: **MS** TestCode: **314_S** Units: **µg/Kg** Prep Date: RunNo: **106922**
Client ID: **ZZZZZZ** Batch ID: **R106922** TestNo: **EPA 314(M)** Analysis Date: **4/12/2016** SeqNo: **2295463**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perchlorate	9628.450	1000	5000	5029	92.0	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-56941** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **PBS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.139	1.0									
Barium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Lead	0.070	1.0									
Magnesium	ND	10									
Manganese	ND	10									
Selenium	ND	1.0									
Silver	0.020	1.0									

Sample ID: **LCS-56941** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **LCSS** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23.044	1.0	25.00	0	92.2	80	120				
Barium	23.967	1.0	25.00	0	95.9	80	120				
Cadmium	23.530	1.0	25.00	0	94.1	80	120				
Chromium	23.702	1.0	25.00	0	94.8	80	120				
Lead	23.822	1.0	25.00	0	95.3	80	120				
Magnesium	487.892	10	500.0	0	97.6	80	120				
Manganese	46.652	10	50.00	0	93.3	80	120				
Selenium	22.718	1.0	25.00	0	90.9	80	120				
Silver	24.597	1.0	25.00	0	98.4	80	120				

Sample ID: **N019342-001D-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106850**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/9/2016** SeqNo: **2290764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.714	1.0	24.94	31.18	86.3	75	125				
Barium	1179.434	1.0	24.94	1072	431	75	125				S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106850**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/9/2016**	SeqNo: **2290764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	22.934	1.0	24.94	1.269	86.9	75	125				
Chromium	55.128	1.0	24.94	29.19	104	75	125				
Lead	338.193	1.0	24.94	322.9	61.2	75	125				S
Magnesium	12460.363	10	498.8	12160	60.6	75	125				S
Selenium	24.885	1.0	24.94	3.696	85.0	75	125				
Silver	15.131	1.0	24.94	0.5024	58.7	75	125				S

Sample ID: **N019342-001D-MSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106850**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/9/2016**	SeqNo: **2290765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.778	1.0	25.03	31.18	86.3	75	125	52.71	0.123	20	
Barium	1183.260	1.0	25.03	1072	444	75	125	1179	0.324	20	S
Cadmium	22.935	1.0	25.03	1.269	86.6	75	125	22.93	0.00435	20	
Chromium	55.294	1.0	25.03	29.19	104	75	125	55.13	0.301	20	
Lead	338.306	1.0	25.03	322.9	61.5	75	125	338.2	0.0335	20	S
Magnesium	12494.582	10	500.5	12160	67.2	75	125	12460	0.274	20	S
Selenium	24.915	1.0	25.03	3.696	84.8	75	125	24.88	0.122	20	
Silver	15.192	1.0	25.03	0.5024	58.7	75	125	15.13	0.404	20	S

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	15317.525	250	49.88	13430	3780	75	125				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **N019342-001D-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106859**
Client ID: **ZZZZZZ** Batch ID: **56941** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **4/11/2016** SeqNo: **2292200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	15257.245	250	50.05	13430	3650	75	125	15320	0.394	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S1

Sample ID: **MB-56941**	SampType: **MBLK**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **PBS**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	0.008	15									

Sample ID: **LCS-56941**	SampType: **LCS**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **LCSS**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	24.808	15	25.00	0	99.2	80	120				

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	740.279	75	24.94	379.5	1450	75	125				S

Sample ID: **N019342-001D-MSD**	SampType: **MSD**	TestCode: **6010_S1**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106859**
Client ID: **ZZZZZZ**	Batch ID: **56941**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **4/11/2016**	SeqNo: **2292332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Titanium	741.465	75	25.03	379.5	1450	75	125	740.3	0.160	30	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TC

Sample ID: **MB-56983** SampType: **MBLK** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **PBS** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/12/2016** SeqNo: **2294792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Barium	ND	0.20									
Cadmium	0.000412	0.050									
Chromium	0.000453	0.050									
Lead	0.001	0.050									
Selenium	ND	0.050									
Silver	0.001	0.050									

Sample ID: **MB-56958-TCLP** SampType: **MBLK** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **PBS** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/12/2016** SeqNo: **2294793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.008	0.050									
Barium	ND	0.20									
Cadmium	ND	0.050									
Chromium	0.001	0.050									
Lead	ND	0.050									
Selenium	0.004	0.050									
Silver	0.000928	0.050									

Sample ID: **N018937-002A-DUP** SampType: **DUP** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **ZZZZZZ** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/12/2016** SeqNo: **2294796**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.088	0.25						0.07953	0	20	
Barium	0.746	1.0						0.8179	0	20	
Cadmium	0.002	0.25						0.002698	0	20	
Chromium	0.006	0.25						0.002406	0	20	
Lead	0.021	0.25						0.2814	0	20	
Selenium	ND	0.25						0.02046	0	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TC

Sample ID: **N018937-002A-DUP** SampType: **DUP** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **ZZZZZZ** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/12/2016** SeqNo: **2294796**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	0.25						0	0	20	

Sample ID: **LCS-56983** SampType: **LCS** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **LCSS** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/12/2016** SeqNo: **2294798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.502	0.050	0.5000	0	100	85	115				
Barium	0.500	0.20	0.5000	0	100	85	115				
Cadmium	0.487	0.050	0.5000	0	97.4	85	115				
Chromium	0.496	0.050	0.5000	0	99.3	85	115				
Lead	0.493	0.050	0.5000	0	98.6	85	115				
Selenium	0.498	0.050	0.5000	0	99.6	85	115				
Silver	0.498	0.050	0.5000	0	99.6	85	115				

Sample ID: **N019343-002C-MS** SampType: **MS** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **ZZZZZZ** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/13/2016** SeqNo: **2294833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.566	0.050	0.5000	0.01871	109	75	125				
Barium	1.081	0.20	0.5000	0.5745	101	75	125				
Cadmium	0.429	0.050	0.5000	0.001010	85.6	75	125				
Chromium	0.470	0.050	0.5000	0.006257	92.7	75	125				
Lead	0.404	0.050	0.5000	0	80.7	75	125				
Selenium	0.527	0.050	0.5000	0.003628	105	75	125				
Silver	0.418	0.050	0.5000	0	83.5	75	125				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TC

Sample ID: **N019343-002C-MSD** SampType: **MSD** TestCode: **6010_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106914**
Client ID: **ZZZZZZ** Batch ID: **56983** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **4/13/2016** SeqNo: **2294834**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.571	0.050	0.5000	0.01871	110	75	125	0.5657	0.956	20	
Barium	1.100	0.20	0.5000	0.5745	105	75	125	1.081	1.78	20	
Cadmium	0.433	0.050	0.5000	0.001010	86.5	75	125	0.4288	1.04	20	
Chromium	0.473	0.050	0.5000	0.006257	93.4	75	125	0.4697	0.713	20	
Lead	0.407	0.050	0.5000	0	81.4	75	125	0.4035	0.846	20	
Selenium	0.539	0.050	0.5000	0.003628	107	75	125	0.5271	2.24	20	
Silver	0.421	0.050	0.5000	0	84.3	75	125	0.4177	0.894	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019314-001B-MS** SampType: **MS** TestCode: **7199_S** Units: **mg/Kg-dry** Prep Date: **4/8/2016** RunNo: **106916**
Client ID: **ZZZZZZ** Batch ID: **56948** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/12/2016** SeqNo: **2295162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	34.301	1.0	3.997	31.52	69.5	75	125				S

Sample ID: **MB-56948** SampType: **MBLK** TestCode: **7199_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106916**
Client ID: **PBS** Batch ID: **56948** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/12/2016** SeqNo: **2295163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-56948** SampType: **LCS** TestCode: **7199_S** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106916**
Client ID: **LCSS** Batch ID: **56948** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/12/2016** SeqNo: **2295164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.720	0.20	4.000	0	93.0	80	120				

Sample ID: **N019314-001BREP** SampType: **DUP** TestCode: **7199_S** Units: **mg/Kg-dry** Prep Date: **4/8/2016** RunNo: **106916**
Client ID: **ZZZZZZ** Batch ID: **56948** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/12/2016** SeqNo: **2295166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	31.515	1.0						31.52	0.0248	20	

Sample ID: **N019314-001B-DUP** SampType: **DUP** TestCode: **7199_S** Units: **mg/Kg-dry** Prep Date: **4/8/2016** RunNo: **106916**
Client ID: **ZZZZZZ** Batch ID: **56948** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/12/2016** SeqNo: **2295167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	37.250	1.0						31.52	16.7	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019314-001B-MSD**	SampType: **MSD**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	32.886	1.0	3.992	31.52	34.2	75	125	34.30	4.21	20	S

Sample ID: **N019314-001B-MS_I**	SampType: **MS**	TestCode: **7199_S**	Units: **mg/Kg-dry**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	752.925	20	664.6	31.52	109	75	125				

Sample ID: **N019342-001CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.980	0.20						1.959	1.06	20	

Sample ID: **N019342-002CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.084	0.20						0.08562	0	20	

Sample ID: **N019342-003CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	55.417	2.0						51.72	6.90	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019342-004CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.182	0.20						0.1657	0	20	

Sample ID: **N019342-005CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0.1043	0	20	

Sample ID: **N019343-003EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.225	0.20						0.2620	15.3	20	

Sample ID: **N019343-004EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295194**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.745	0.20						5.064	6.50	20	

Sample ID: **N019343-005EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/12/2016**	SeqNo: **2295196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	15.096	0.20						14.76	2.25	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_S

Sample ID: **N019342-006CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.019	0.20						0.02535	0	20	

Sample ID: **N019342-007CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.195	0.20						0.2099	0	20	

Sample ID: **N019342-008CREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.628	0.20						2.623	0.177	20	

Sample ID: **N019343-001EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.000	0.20						0.9825	1.75	20	

Sample ID: **N019343-002EREP**	SampType: **DUP**	TestCode: **7199_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106916**
Client ID: **ZZZZZZ**	Batch ID: **56948**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/13/2016**	SeqNo: **2295210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.284	0.20						0.2797	1.69	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
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- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7470_TC

Sample ID: **MB-56986**	SampType: **MBLK**	TestCode: **7470_TC**	Units: **µg/L**	Prep Date: **4/12/2016**	RunNo: **106901**
Client ID: **PBW**	Batch ID: **56986**	TestNo: **EPA 1311/ 74**		Analysis Date: **4/12/2016**	SeqNo: **2294023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.50									

Sample ID: **MB-56958-TCLP**	SampType: **MBLK**	TestCode: **7470_TC**	Units: **µg/L**	Prep Date: **4/12/2016**	RunNo: **106901**
Client ID: **PBW**	Batch ID: **56986**	TestNo: **EPA 1311/ 74**		Analysis Date: **4/12/2016**	SeqNo: **2294025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.50									

Sample ID: **LCS-56986**	SampType: **LCS**	TestCode: **7470_TC**	Units: **µg/L**	Prep Date: **4/12/2016**	RunNo: **106901**
Client ID: **LCSW**	Batch ID: **56986**	TestNo: **EPA 1311/ 74**		Analysis Date: **4/12/2016**	SeqNo: **2294026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	5.046	0.50	5.000	0	101	85	115				

Sample ID: **N019343-003C-MS**	SampType: **MS**	TestCode: **7470_TC**	Units: **µg/L**	Prep Date: **4/12/2016**	RunNo: **106901**
Client ID: **ZZZZZZ**	Batch ID: **56986**	TestNo: **EPA 1311/ 74**		Analysis Date: **4/12/2016**	SeqNo: **2294029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	6.713	0.50	5.000	0	134	75	125				S

Sample ID: **N019343-003C-MSD**	SampType: **MSD**	TestCode: **7470_TC**	Units: **µg/L**	Prep Date: **4/12/2016**	RunNo: **106901**
Client ID: **ZZZZZZ**	Batch ID: **56986**	TestNo: **EPA 1311/ 74**		Analysis Date: **4/12/2016**	SeqNo: **2294030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	6.462	0.50	5.000	0	129	75	125	6.713	3.81	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-56924**	SampType: **MBLK**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **PBS**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-56924**	SampType: **LCS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **LCSS**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.439	0.10	0.4167	0	105	80	120				

Sample ID: **N019342-001D-MS**	SampType: **MS**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **ZZZZZZ**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.609	0.10	0.4146	0.1817	103	75	125				

Sample ID: **N019342-001D-MSD**	SampType: **MSD**	TestCode: **7471_S**	Units: **mg/Kg**	Prep Date: **4/8/2016**	RunNo: **106842**
Client ID: **ZZZZZZ**	Batch ID: **56924**	TestNo: **EPA 7471A**		Analysis Date: **4/9/2016**	SeqNo: **2290424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.638	0.10	0.4181	0.1817	109	75	125	0.6088	4.70	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DMS_M

Sample ID: **LCS-56934** SampType: **LCS** TestCode: **8015DMS_M** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106836**
Client ID: **LCSS** Batch ID: **56934** TestNo: **EPA 8015B** **EPA 3546** Analysis Date: **4/8/2016** SeqNo: **2289989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1074.864	10	1000	0	107	67	119				
Surr: p-Terphenyl	72.087		80.00		90.1	38	152				

Sample ID: **MB-56934** SampType: **MBLK** TestCode: **8015DMS_M** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106836**
Client ID: **PBS** Batch ID: **56934** TestNo: **EPA 8015B** **EPA 3546** Analysis Date: **4/8/2016** SeqNo: **2289990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	8.635	10									
ORO	6.717	10									
Surr: p-Terphenyl	79.116		80.00		98.9	38	152				

Sample ID: **N019342-001A-MS** SampType: **MS** TestCode: **8015DMS_M** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106836**
Client ID: **ZZZZZZ** Batch ID: **56934** TestNo: **EPA 8015B** **EPA 3546** Analysis Date: **4/9/2016** SeqNo: **2290011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1036.198	9.9	990.1	12.21	103	46	143				
Surr: p-Terphenyl	69.943		79.21		88.3	38	152				

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8015DMS_M** Units: **mg/Kg** Prep Date: **4/8/2016** RunNo: **106836**
Client ID: **ZZZZZZ** Batch ID: **56934** TestNo: **EPA 8015B** **EPA 3546** Analysis Date: **4/9/2016** SeqNo: **2290012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1034.075	10	997.0	12.21	102	46	143	1036	0.205	20	
Surr: p-Terphenyl	70.332		79.76		88.2	38	152		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_S

Sample ID: **E160411LCS** SampType: **LCS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **LCSS** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.087	1.0	5.000	0	102	70	137				
Surr: Chlorobenzene - d5	107.634		100.0		108	46	154				

Sample ID: **E160411MB1** SampType: **MBLK** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **PBS** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.068	1.0									
Surr: Chlorobenzene - d5	112.322		100.0		112	46	154				

Sample ID: **N019362-001AMS** SampType: **MS** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **ZZZZZZ** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.137	1.0	5.000	0.06600	101	46	155				
Surr: Chlorobenzene - d5	106.801		100.0		107	46	154				

Sample ID: **N019362-001AMSD** SampType: **MSD** TestCode: **8015GAS_S** Units: **mg/Kg** Prep Date: RunNo: **106882**
Client ID: **ZZZZZZ** Batch ID: **E16VS051** TestNo: **EPA 8015B** Analysis Date: **4/11/2016** SeqNo: **2293239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.157	1.0	5.000	0.06600	102	46	155	5.137	0.389	20	
Surr: Chlorobenzene - d5	109.979		100.0		110	46	154		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **LCS-56962_OCP**	SampType: **LCS**	TestCode: **8081SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106880**
Client ID: **LCSS**	Batch ID: **56962**	TestNo: **EPA 8081A**	**EPA 3546**	Analysis Date: **4/11/2016**	SeqNo: **2293181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	30.913	2.0	33.34	0	92.7	52	139				
4,4´-DDE	28.765	2.0	33.34	0	86.3	51	132				
4,4´-DDT	25.700	2.0	33.34	0	77.1	57	154				
Aldrin	28.689	1.0	33.34	0	86.0	35	125				
alpha-BHC	29.301	1.0	33.34	0	87.9	34	132				
alpha-Chlordane	27.789	1.0	33.34	0	83.4	51	129				
beta-BHC	25.652	1.0	33.34	0	76.9	48	120				
delta-BHC	29.023	1.0	33.34	0	87.1	43	136				
Dieldrin	29.494	2.0	33.34	0	88.5	52	135				
Endosulfan I	27.809	1.0	33.34	0	83.4	50	120				
Endosulfan II	28.338	2.0	33.34	0	85.0	58	135				
Endosulfan sulfate	26.584	2.0	33.34	0	79.7	58	136				
Endrin	28.994	2.0	33.34	0	87.0	29	157				
Endrin aldehyde	27.943	2.0	33.34	0	83.8	56	123				
Endrin ketone	28.233	2.0	33.34	0	84.7	47	150				
gamma-BHC	27.761	1.0	33.34	0	83.3	40	125				
gamma-Chlordane	28.063	1.0	33.34	0	84.2	53	126				
Heptachlor	27.910	1.0	33.34	0	83.7	37	129				
Heptachlor epoxide	27.510	1.0	33.34	0	82.5	50	123				
Methoxychlor	24.136	8.5	33.34	0	72.4	55	165				
Surr: Tetrachloro-m-xylene	23.813		33.34		71.4	26	120				
Surr: Decachlorobiphenyl	22.676		33.34		68.0	31	131				

Sample ID: **MB-56962**	SampType: **MBLK**	TestCode: **8081SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106880**
Client ID: **PBS**	Batch ID: **56962**	TestNo: **EPA 8081A**	**EPA 3546**	Analysis Date: **4/11/2016**	SeqNo: **2293182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **MB-56962** SampType: **MBLK** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106880**
Client ID: **PBS** Batch ID: **56962** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293182**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	8.5									
Toxaphene	ND	85									
Surr: Tetrachloro-m-xylene	21.500		33.34		64.5	26	120				
Surr: Decachlorobiphenyl	19.434		33.34		58.3	31	131				

Sample ID: **N019343-001B-MS** SampType: **MS** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106880**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	27.612	2.0	33.21	0	83.2	19	132				
4,4´-DDE	25.179	2.0	33.21	4.306	62.9	28	107				
4,4´-DDT	22.758	2.0	33.21	0.6099	66.7	12	129				
Aldrin	25.122	1.0	33.21	0	75.7	28	105				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **N019343-001B-MS** SampType: **MS** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106880**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	26.235	1.0	33.21	0	79.0	35	102				
alpha-Chlordane	24.147	1.0	33.21	0	72.7	23	125				
beta-BHC	27.924	1.0	33.21	6.729	63.8	16	124				
delta-BHC	26.809	1.0	33.21	0	80.7	20	127				
Dieldrin	25.323	2.0	33.21	0	76.3	24	106				
Endosulfan I	23.365	1.0	33.21	0	70.4	20	126				
Endosulfan II	24.635	2.0	33.21	0	74.2	20	121				
Endosulfan sulfate	22.863	2.0	33.21	0	68.8	24	133				
Endrin	25.498	2.0	33.21	0	76.8	21	117				
Endrin aldehyde	27.839	2.0	33.21	0	83.8	25	118				
Endrin ketone	27.332	2.0	33.21	0	82.3	32	105				
gamma-BHC	24.305	1.0	33.21	0	73.2	24	115				
gamma-Chlordane	25.612	1.0	33.21	0	77.1	28	109				
Heptachlor	25.006	1.0	33.21	0	75.3	27	118				
Heptachlor epoxide	23.613	1.0	33.21	0	71.1	13	137				
Methoxychlor	20.659	8.5	33.21	0	62.2	55	152				
Surr: Tetrachloro-m-xylene	19.916		33.21		60.0	26	120				
Surr: Decachlorobiphenyl	22.802		33.21		68.7	31	131				

Sample ID: **N019343-001B-MSD** SampType: **MSD** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106880**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	27.586	2.0	33.45	0	82.5	19	132	27.61	0.0952	20	
4,4´-DDE	24.921	2.0	33.45	4.306	61.6	28	107	25.18	1.03	20	
4,4´-DDT	21.310	2.0	33.45	0.6099	61.9	12	129	22.76	6.57	20	
Aldrin	24.968	1.0	33.45	0	74.6	28	105	25.12	0.617	20	
alpha-BHC	25.840	1.0	33.45	0	77.2	35	102	26.24	1.52	20	
alpha-Chlordane	23.975	1.0	33.45	0	71.7	23	125	24.15	0.715	20	
beta-BHC	26.619	1.0	33.45	6.729	59.5	16	124	27.92	4.78	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081SOIL_M

Sample ID: **N019343-001B-MSD** SampType: **MSD** TestCode: **8081SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106880**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8081A** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
delta-BHC	26.551	1.0	33.45	0	79.4	20	127	26.81	0.968	20	
Dieldrin	25.360	2.0	33.45	0	75.8	24	106	25.32	0.147	20	
Endosulfan I	23.467	1.0	33.45	0	70.2	20	126	23.37	0.435	20	
Endosulfan II	25.516	2.0	33.45	0	76.3	20	121	24.64	3.51	20	
Endosulfan sulfate	22.483	2.0	33.45	0	67.2	24	133	22.86	1.68	20	
Endrin	25.459	2.0	33.45	0	76.1	21	117	25.50	0.154	20	
Endrin aldehyde	28.191	2.0	33.45	0	84.3	25	118	27.84	1.26	20	
Endrin ketone	26.625	2.0	33.45	0	79.6	32	105	27.33	2.62	20	
gamma-BHC	24.089	1.0	33.45	0	72.0	24	115	24.30	0.891	20	
gamma-Chlordane	25.115	1.0	33.45	0	75.1	28	109	25.61	1.96	20	
Heptachlor	24.643	1.0	33.45	0	73.7	27	118	25.01	1.46	20	
Heptachlor epoxide	23.614	1.0	33.45	0	70.6	13	137	23.61	0.00423	20	
Methoxychlor	19.198	8.5	33.45	0	57.4	55	152	20.66	7.33	20	
Surr: Tetrachloro-m-xylene	19.663		33.45		58.8	26	120		0		
Surr: Decachlorobiphenyl	21.738		33.45		65.0	31	131		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **LCS-56962_PCB** SampType: **LCS** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **LCSS** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	257.203	16	333.3	0	77.2	58	128				
Aroclor 1260	267.183	16	333.3	0	80.2	60	136				
Surr: Decachlorobiphenyl	23.686		33.34		71.0	34	147				
Surr: Tetrachloro-m-xylene	23.499		33.34		70.5	30	118				

Sample ID: **MB-56962** SampType: **MBLK** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **PBS** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	16									
Aroclor 1221	ND	33									
Aroclor 1232	ND	16									
Aroclor 1242	ND	16									
Aroclor 1248	ND	16									
Aroclor 1254	ND	16									
Aroclor 1260	ND	16									
Surr: Decachlorobiphenyl	22.118		33.34		66.3	34	147				
Surr: Tetrachloro-m-xylene	23.253		33.34		69.7	30	118				

Sample ID: **N019343-001B-MS** SampType: **MS** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	276.098	16	332.0	0	83.2	15	143				
Aroclor 1260	245.764	16	332.0	0	74.0	18	136				
Surr: Decachlorobiphenyl	26.812		33.21		80.7	34	147				
Surr: Tetrachloro-m-xylene	22.403		33.21		67.5	30	118				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082SOIL_M

Sample ID: **N019343-001B-MSD** SampType: **MSD** TestCode: **8082SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106876**
Client ID: **ZZZZZZ** Batch ID: **56962** TestNo: **EPA 8082** **EPA 3546** Analysis Date: **4/11/2016** SeqNo: **2293079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	274.665	17	334.5	0	82.1	15	143	276.1	0.520	20	
Aroclor 1260	272.057	17	334.5	0	81.3	18	136	245.8	10.2	20	
Surr: Decachlorobiphenyl	28.958		33.45		86.6	34	147		0		
Surr: Tetrachloro-m-xylene	23.630		33.45		70.6	30	118		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	45.210	5.0	40.00	0	113	80	122				
1,1,1-Trichloroethane	46.510	5.0	40.00	0	116	78	124				
1,1,2,2-Tetrachloroethane	38.820	5.0	40.00	0	97.0	75	124				
1,1,2-Trichloroethane	40.710	5.0	40.00	0	102	80	120				
1,1-Dichloroethane	49.950	5.0	40.00	0	125	77	124				S
1,1-Dichloroethene	44.970	5.0	40.00	0	112	71	133				
1,1-Dichloropropene	42.660	5.0	40.00	0	107	80	120				
1,2,3-Trichlorobenzene	46.140	5.0	40.00	0	115	80	126				
1,2,3-Trichloropropane	38.810	5.0	40.00	0	97.0	78	120				
1,2,4-Trichlorobenzene	46.220	5.0	40.00	0	116	77	129				
1,2,4-Trimethylbenzene	44.390	5.0	40.00	0	111	80	120				
1,2-Dibromo-3-chloropropane	42.110	10	40.00	0	105	65	134				
1,2-Dibromoethane	41.280	5.0	40.00	0	103	80	120				
1,2-Dichlorobenzene	42.360	5.0	40.00	0	106	80	120				
1,2-Dichloroethane	42.900	5.0	40.00	0	107	80	120				
1,2-Dichloropropane	39.770	5.0	40.00	0	99.4	80	120				
1,3,5-Trimethylbenzene	44.240	5.0	40.00	0	111	80	120				
1,3-Dichlorobenzene	41.770	5.0	40.00	0	104	80	120				
1,3-Dichloropropane	40.180	5.0	40.00	0	100	80	120				
1,4-Dichlorobenzene	40.820	5.0	40.00	0	102	80	120				
2,2-Dichloropropane	47.490	5.0	40.00	0	119	73	126				
2-Butanone	488.750	50	400.0	0	122	40	160				
2-Chlorotoluene	42.510	5.0	40.00	0	106	80	120				
4-Chlorotoluene	42.200	5.0	40.00	0	106	80	120				
4-Isopropyltoluene	44.380	5.0	40.00	0	111	79	122				
Benzene	40.110	5.0	40.00	0	100	80	120				
Bromobenzene	42.310	5.0	40.00	0	106	80	120				
Bromodichloromethane	43.020	5.0	40.00	0	108	80	120				
Bromoform	45.170	5.0	40.00	0	113	68	141				
Bromomethane	47.870	5.0	40.00	0	120	52	153				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	46.860	5.0	40.00	0	117	72	132				
Chlorobenzene	40.990	5.0	40.00	0	102	80	120				
Chloroethane	50.560	5.0	40.00	0	126	71	135				
Chloroform	40.920	5.0	40.00	0	102	80	121				
Chloromethane	36.030	5.0	40.00	0	90.1	58	134				
cis-1,2-Dichloroethene	41.110	5.0	40.00	0	103	80	120				
cis-1,3-Dichloropropene	41.980	5.0	40.00	0	105	80	120				
Dibromochloromethane	44.750	5.0	40.00	0	112	80	126				
Dibromomethane	40.060	5.0	40.00	0	100	80	120				
Dichlorodifluoromethane	40.060	5.0	40.00	0	100	67	140				
Ethylbenzene	41.670	5.0	40.00	0	104	80	120				
Freon-113	46.450	5.0	40.00	0	116	72	136				
Hexachlorobutadiene	43.450	5.0	40.00	0	109	76	124				
Isopropylbenzene	43.220	5.0	40.00	0	108	80	120				
m,p-Xylene	86.580	10	80.00	0	108	80	120				
Methylene chloride	44.330	5.0	40.00	0	111	61	138				
MTBE	47.680	5.0	40.00	0	119	73	127				
n-Butylbenzene	43.790	5.0	40.00	0	109	79	124				
n-Propylbenzene	42.350	5.0	40.00	0	106	80	120				
Naphthalene	40.160	5.0	40.00	0	100	67	133				
o-Xylene	42.780	5.0	40.00	0	107	80	120				
sec-Butylbenzene	43.750	5.0	40.00	0	109	80	120				
Styrene	43.620	5.0	40.00	0	109	80	120				
tert-Butylbenzene	43.520	5.0	40.00	0	109	80	120				
Tetrachloroethene	43.130	5.0	40.00	0	108	77	123				
Toluene	42.080	5.0	40.00	0	105	80	120				
trans-1,2-Dichloroethene	45.050	5.0	40.00	0	113	78	126				
Trichloroethene	42.390	5.0	40.00	0	106	80	121				
Trichlorofluoromethane	48.540	5.0	40.00	0	121	75	137				
Vinyl chloride	43.230	5.0	40.00	0	108	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	54.480		50.00		109	75	140				
Surr: 4-Bromofluorobenzene	52.250		50.00		104	73	128				
Surr: Dibromofluoromethane	51.090		50.00		102	78	133				
Surr: Toluene-d8	52.440		50.00		105	80	120				

Sample ID: **R160411LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS02** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	44.550	5.0	40.00	0	111	80	122	45.21	1.47	20	
1,1,1-Trichloroethane	45.280	5.0	40.00	0	113	78	124	46.51	2.68	20	
1,1,2,2-Tetrachloroethane	38.710	5.0	40.00	0	96.8	75	124	38.82	0.284	20	
1,1,2-Trichloroethane	39.190	5.0	40.00	0	98.0	80	120	40.71	3.80	20	
1,1-Dichloroethane	49.370	5.0	40.00	0	123	77	124	49.95	1.17	20	
1,1-Dichloroethene	45.520	5.0	40.00	0	114	71	133	44.97	1.22	20	
1,1-Dichloropropene	41.590	5.0	40.00	0	104	80	120	42.66	2.54	20	
1,2,3-Trichlorobenzene	43.530	5.0	40.00	0	109	80	126	46.14	5.82	20	
1,2,3-Trichloropropane	37.500	5.0	40.00	0	93.8	78	120	38.81	3.43	20	
1,2,4-Trichlorobenzene	44.890	5.0	40.00	0	112	77	129	46.22	2.92	20	
1,2,4-Trimethylbenzene	42.530	5.0	40.00	0	106	80	120	44.39	4.28	20	
1,2-Dibromo-3-chloropropane	42.970	10	40.00	0	107	65	134	42.11	2.02	20	
1,2-Dibromoethane	41.780	5.0	40.00	0	104	80	120	41.28	1.20	20	
1,2-Dichlorobenzene	41.190	5.0	40.00	0	103	80	120	42.36	2.80	20	
1,2-Dichloroethane	42.580	5.0	40.00	0	106	80	120	42.90	0.749	20	
1,2-Dichloropropane	39.290	5.0	40.00	0	98.2	80	120	39.77	1.21	20	
1,3,5-Trimethylbenzene	43.050	5.0	40.00	0	108	80	120	44.24	2.73	20	
1,3-Dichlorobenzene	41.140	5.0	40.00	0	103	80	120	41.77	1.52	20	
1,3-Dichloropropane	39.540	5.0	40.00	0	98.8	80	120	40.18	1.61	20	
1,4-Dichlorobenzene	40.260	5.0	40.00	0	101	80	120	40.82	1.38	20	
2,2-Dichloropropane	46.720	5.0	40.00	0	117	73	126	47.49	1.63	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS02** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	399.650	50	400.0	0	99.9	40	160	488.8	20.1	20	R
2-Chlorotoluene	41.090	5.0	40.00	0	103	80	120	42.51	3.40	20	
4-Chlorotoluene	41.540	5.0	40.00	0	104	80	120	42.20	1.58	20	
4-Isopropyltoluene	43.450	5.0	40.00	0	109	79	122	44.38	2.12	20	
Benzene	40.850	5.0	40.00	0	102	80	120	40.11	1.83	20	
Bromobenzene	40.930	5.0	40.00	0	102	80	120	42.31	3.32	20	
Bromodichloromethane	42.240	5.0	40.00	0	106	80	120	43.02	1.83	20	
Bromoform	44.070	5.0	40.00	0	110	68	141	45.17	2.47	20	
Bromomethane	45.470	5.0	40.00	0	114	52	153	47.87	5.14	20	
Carbon tetrachloride	48.030	5.0	40.00	0	120	72	132	46.86	2.47	20	
Chlorobenzene	40.590	5.0	40.00	0	101	80	120	40.99	0.981	20	
Chloroethane	46.230	5.0	40.00	0	116	71	135	50.56	8.95	20	
Chloroform	41.360	5.0	40.00	0	103	80	121	40.92	1.07	20	
Chloromethane	36.560	5.0	40.00	0	91.4	58	134	36.03	1.46	20	
cis-1,2-Dichloroethene	40.110	5.0	40.00	0	100	80	120	41.11	2.46	20	
cis-1,3-Dichloropropene	42.000	5.0	40.00	0	105	80	120	41.98	0.0476	20	
Dibromochloromethane	43.630	5.0	40.00	0	109	80	126	44.75	2.53	20	
Dibromomethane	41.180	5.0	40.00	0	103	80	120	40.06	2.76	20	
Dichlorodifluoromethane	39.970	5.0	40.00	0	99.9	67	140	40.06	0.225	20	
Ethylbenzene	40.370	5.0	40.00	0	101	80	120	41.67	3.17	20	
Freon-113	46.050	5.0	40.00	0	115	72	136	46.45	0.865	20	
Hexachlorobutadiene	42.830	5.0	40.00	0	107	76	124	43.45	1.44	20	
Isopropylbenzene	41.960	5.0	40.00	0	105	80	120	43.22	2.96	20	
m,p-Xylene	84.550	10	80.00	0	106	80	120	86.58	2.37	20	
Methylene chloride	43.330	5.0	40.00	0	108	61	138	44.33	2.28	20	
MTBE	47.310	5.0	40.00	0	118	73	127	47.68	0.779	20	
n-Butylbenzene	41.890	5.0	40.00	0	105	79	124	43.79	4.44	20	
n-Propylbenzene	41.790	5.0	40.00	0	104	80	120	42.35	1.33	20	
Naphthalene	39.250	5.0	40.00	0	98.1	67	133	40.16	2.29	20	
o-Xylene	41.150	5.0	40.00	0	103	80	120	42.78	3.88	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **LCSS02** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	42.540	5.0	40.00	0	106	80	120	43.75	2.80	20	
Styrene	42.600	5.0	40.00	0	106	80	120	43.62	2.37	20	
tert-Butylbenzene	42.700	5.0	40.00	0	107	80	120	43.52	1.90	20	
Tetrachloroethene	42.250	5.0	40.00	0	106	77	123	43.13	2.06	20	
Toluene	41.110	5.0	40.00	0	103	80	120	42.08	2.33	20	
trans-1,2-Dichloroethene	46.280	5.0	40.00	0	116	78	126	45.05	2.69	20	
Trichloroethene	41.640	5.0	40.00	0	104	80	121	42.39	1.79	20	
Trichlorofluoromethane	48.960	5.0	40.00	0	122	75	137	48.54	0.862	20	
Vinyl chloride	40.560	5.0	40.00	0	101	75	125	43.23	6.37	20	
Surr: 1,2-Dichloroethane-d4	54.350		50.00		109	75	140		0		
Surr: 4-Bromofluorobenzene	53.060		50.00		106	73	128		0		
Surr: Dibromofluoromethane	52.700		50.00		105	78	133		0		
Surr: Toluene-d8	52.630		50.00		105	80	120		0		

Sample ID: **R160411MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **PBS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **PBS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Freon-113	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160411MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **PBS** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	1.760	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	64.780		50.00		130	75	140				
Surr: 4-Bromofluorobenzene	49.130		50.00		98.3	73	128				
Surr: Dibromofluoromethane	62.000		50.00		124	78	133				
Surr: Toluene-d8	52.680		50.00		105	80	120				

Sample ID: **N019349-016AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.180	5.0	40.00	0	93.0	61	125				
1,1,1-Trichloroethane	43.120	5.0	40.00	0	108	64	123				
1,1,2,2-Tetrachloroethane	32.170	5.0	40.00	0	80.4	50	128				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019349-016AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	35.880	5.0	40.00	0	89.7	62	135				
1,1-Dichloroethane	45.900	5.0	40.00	0	115	65	124				
1,1-Dichloroethene	43.550	5.0	40.00	0	109	62	130				
1,1-Dichloropropene	38.710	5.0	40.00	0	96.8	64	119				
1,2,3-Trichlorobenzene	23.890	5.0	40.00	0	59.7	24	145				
1,2,3-Trichloropropane	33.570	5.0	40.00	0	83.9	26	159				
1,2,4-Trichlorobenzene	23.680	5.0	40.00	0	59.2	26	144				
1,2,4-Trimethylbenzene	34.850	5.0	40.00	0	87.1	42	137				
1,2-Dibromo-3-chloropropane	32.990	10	40.00	0	82.5	44	131				
1,2-Dibromoethane	35.930	5.0	40.00	0	89.8	68	129				
1,2-Dichlorobenzene	30.390	5.0	40.00	0	76.0	52	129				
1,2-Dichloroethane	37.000	5.0	40.00	0	92.5	68	126				
1,2-Dichloropropane	34.550	5.0	40.00	0	86.4	69	120				
1,3,5-Trimethylbenzene	35.650	5.0	40.00	0	89.1	46	130				
1,3-Dichlorobenzene	31.080	5.0	40.00	0	77.7	51	126				
1,3-Dichloropropane	33.270	5.0	40.00	0	83.2	68	121				
1,4-Dichlorobenzene	29.280	5.0	40.00	0	73.2	51	125				
2,2-Dichloropropane	39.470	5.0	40.00	0	98.7	56	128				
2-Butanone	220.230	50	400.0	0	55.1	33	178				
2-Chlorotoluene	33.760	5.0	40.00	0	84.4	54	122				
4-Chlorotoluene	32.120	5.0	40.00	0	80.3	54	121				
4-Isopropyltoluene	35.790	5.0	40.00	0	89.5	44	127				
Benzene	37.120	5.0	40.00	0	92.8	71	120				
Bromobenzene	32.890	5.0	40.00	0	82.2	60	123				
Bromodichloromethane	36.590	5.0	40.00	0	91.5	68	125				
Bromoform	36.330	5.0	40.00	0	90.8	53	137				
Bromomethane	46.110	5.0	40.00	0	115	35	160				
Carbon tetrachloride	42.930	5.0	40.00	0	107	52	131				
Chlorobenzene	34.680	5.0	40.00	0	86.7	64	120				
Chloroethane	46.840	5.0	40.00	0	117	49	143				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019349-016AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	39.070	5.0	40.00	0	97.7	65	125				
Chloromethane	34.590	5.0	40.00	0	86.5	43	135				
cis-1,2-Dichloroethene	36.710	5.0	40.00	0	91.8	68	125				
cis-1,3-Dichloropropene	32.870	5.0	40.00	0	82.2	65	126				
Dibromochloromethane	36.710	5.0	40.00	0	91.8	62	130				
Dibromomethane	34.590	5.0	40.00	0	86.5	71	122				
Dichlorodifluoromethane	39.330	5.0	40.00	0	98.3	49	146				
Ethylbenzene	35.600	5.0	40.00	0	89.0	59	120				
Freon-113	44.790	5.0	40.00	0	112	59	132				
Hexachlorobutadiene	32.360	5.0	40.00	0	80.9	18	135				
Isopropylbenzene	34.870	5.0	40.00	0	87.2	54	122				
m,p-Xylene	73.350	10	80.00	0	91.7	43	136				
Methylene chloride	43.330	5.0	40.00	3.720	99.0	48	144				
MTBE	41.660	5.0	40.00	0	104	60	140				
n-Butylbenzene	31.570	5.0	40.00	0	78.9	36	132				
n-Propylbenzene	34.790	5.0	40.00	0	87.0	49	126				
Naphthalene	23.140	5.0	40.00	0	57.8	27	140				
o-Xylene	35.220	5.0	40.00	0	88.0	47	135				
sec-Butylbenzene	35.180	5.0	40.00	0	88.0	46	125				
Styrene	34.410	5.0	40.00	0	86.0	61	124				
tert-Butylbenzene	35.470	5.0	40.00	0	88.7	50	123				
Tetrachloroethene	38.500	5.0	40.00	0	96.2	56	120				
Toluene	36.720	5.0	40.00	0	91.8	66	120				
trans-1,2-Dichloroethene	43.670	5.0	40.00	0	109	66	126				
Trichloroethene	39.320	5.0	40.00	0	98.3	58	139				
Trichlorofluoromethane	47.470	5.0	40.00	0	119	63	135				
Vinyl chloride	43.900	5.0	40.00	0	110	63	126				
Surr: 1,2-Dichloroethane-d4	62.040		50.00		124	75	140				
Surr: 4-Bromofluorobenzene	55.130		50.00		110	73	128				
Surr: Dibromofluoromethane	56.510		50.00		113	78	133				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019349-016AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	54.020		50.00		108	80	120				

Sample ID: **N019349-016AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	35.380	5.0	40.00	0	88.4	61	125	37.18	4.96	20	
1,1,1-Trichloroethane	38.570	5.0	40.00	0	96.4	64	123	43.12	11.1	20	
1,1,2,2-Tetrachloroethane	30.270	5.0	40.00	0	75.7	50	128	32.17	6.09	20	
1,1,2-Trichloroethane	30.770	5.0	40.00	0	76.9	62	135	35.88	15.3	20	
1,1-Dichloroethane	41.300	5.0	40.00	0	103	65	124	45.90	10.6	20	
1,1-Dichloroethene	40.440	5.0	40.00	0	101	62	130	43.55	7.41	20	
1,1-Dichloropropene	37.340	5.0	40.00	0	93.4	64	119	38.71	3.60	20	
1,2,3-Trichlorobenzene	21.990	5.0	40.00	0	55.0	24	145	23.89	8.28	20	
1,2,3-Trichloropropane	28.300	5.0	40.00	0	70.8	26	159	33.57	17.0	20	
1,2,4-Trichlorobenzene	22.420	5.0	40.00	0	56.0	26	144	23.68	5.47	20	
1,2,4-Trimethylbenzene	33.300	5.0	40.00	0	83.3	42	137	34.85	4.55	20	
1,2-Dibromo-3-chloropropane	31.610	10	40.00	0	79.0	44	131	32.99	4.27	20	
1,2-Dibromoethane	31.790	5.0	40.00	0	79.5	68	129	35.93	12.2	20	
1,2-Dichlorobenzene	28.890	5.0	40.00	0	72.2	52	129	30.39	5.06	20	
1,2-Dichloroethane	33.800	5.0	40.00	0	84.5	68	126	37.00	9.04	20	
1,2-Dichloropropane	31.360	5.0	40.00	0	78.4	69	120	34.55	9.68	20	
1,3,5-Trimethylbenzene	34.170	5.0	40.00	0	85.4	46	130	35.65	4.24	20	
1,3-Dichlorobenzene	29.510	5.0	40.00	0	73.8	51	126	31.08	5.18	20	
1,3-Dichloropropane	30.710	5.0	40.00	0	76.8	68	121	33.27	8.00	20	
1,4-Dichlorobenzene	28.190	5.0	40.00	0	70.5	51	125	29.28	3.79	20	
2,2-Dichloropropane	37.370	5.0	40.00	0	93.4	56	128	39.47	5.47	20	
2-Butanone	185.940	50	400.0	0	46.5	33	178	220.2	16.9	20	
2-Chlorotoluene	31.870	5.0	40.00	0	79.7	54	122	33.76	5.76	20	
4-Chlorotoluene	31.020	5.0	40.00	0	77.6	54	121	32.12	3.48	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019349-016AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	34.250	5.0	40.00	0	85.6	44	127	35.79	4.40	20	
Benzene	33.870	5.0	40.00	0	84.7	71	120	37.12	9.16	20	
Bromobenzene	31.590	5.0	40.00	0	79.0	60	123	32.89	4.03	20	
Bromodichloromethane	34.000	5.0	40.00	0	85.0	68	125	36.59	7.34	20	
Bromoform	32.880	5.0	40.00	0	82.2	53	137	36.33	9.97	20	
Bromomethane	39.640	5.0	40.00	0	99.1	35	160	46.11	15.1	20	
Carbon tetrachloride	40.550	5.0	40.00	0	101	52	131	42.93	5.70	20	
Chlorobenzene	32.860	5.0	40.00	0	82.2	64	120	34.68	5.39	20	
Chloroethane	39.290	5.0	40.00	0	98.2	49	143	46.84	17.5	20	
Chloroform	35.150	5.0	40.00	0	87.9	65	125	39.07	10.6	20	
Chloromethane	30.710	5.0	40.00	0	76.8	43	135	34.59	11.9	20	
cis-1,2-Dichloroethene	33.660	5.0	40.00	0	84.2	68	125	36.71	8.67	20	
cis-1,3-Dichloropropene	30.760	5.0	40.00	0	76.9	65	126	32.87	6.63	20	
Dibromochloromethane	34.020	5.0	40.00	0	85.0	62	130	36.71	7.61	20	
Dibromomethane	32.520	5.0	40.00	0	81.3	71	122	34.59	6.17	20	
Dichlorodifluoromethane	35.880	5.0	40.00	0	89.7	49	146	39.33	9.17	20	
Ethylbenzene	34.160	5.0	40.00	0	85.4	59	120	35.60	4.13	20	
Freon-113	40.600	5.0	40.00	0	102	59	132	44.79	9.81	20	
Hexachlorobutadiene	31.320	5.0	40.00	0	78.3	18	135	32.36	3.27	20	
Isopropylbenzene	34.200	5.0	40.00	0	85.5	54	122	34.87	1.94	20	
m,p-Xylene	70.480	10	80.00	0	88.1	43	136	73.35	3.99	20	
Methylene chloride	36.460	5.0	40.00	3.720	81.8	48	144	43.33	17.2	20	
MTBE	37.460	5.0	40.00	0	93.6	60	140	41.66	10.6	20	
n-Butylbenzene	32.140	5.0	40.00	0	80.4	36	132	31.57	1.79	20	
n-Propylbenzene	33.570	5.0	40.00	0	83.9	49	126	34.79	3.57	20	
Naphthalene	21.550	5.0	40.00	0	53.9	27	140	23.14	7.12	20	
o-Xylene	33.310	5.0	40.00	0	83.3	47	135	35.22	5.57	20	
sec-Butylbenzene	34.360	5.0	40.00	0	85.9	46	125	35.18	2.36	20	
Styrene	33.220	5.0	40.00	0	83.0	61	124	34.41	3.52	20	
tert-Butylbenzene	34.050	5.0	40.00	0	85.1	50	123	35.47	4.09	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019349-016AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106885**
Client ID: **ZZZZZZ** Batch ID: **R16VS059** TestNo: **EPA 8260B** Analysis Date: **4/11/2016** SeqNo: **2293328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	35.630	5.0	40.00	0	89.1	56	120	38.50	7.74	20	
Toluene	34.270	5.0	40.00	0	85.7	66	120	36.72	6.90	20	
trans-1,2-Dichloroethene	38.520	5.0	40.00	0	96.3	66	126	43.67	12.5	20	
Trichloroethene	34.930	5.0	40.00	0	87.3	58	139	39.32	11.8	20	
Trichlorofluoromethane	42.900	5.0	40.00	0	107	63	135	47.47	10.1	20	
Vinyl chloride	35.840	5.0	40.00	0	89.6	63	126	43.90	20.2	20	R
Surr: 1,2-Dichloroethane-d4	54.460		50.00		109	75	140		0		
Surr: 4-Bromofluorobenzene	53.020		50.00		106	73	128		0		
Surr: Dibromofluoromethane	51.830		50.00		104	78	133		0		
Surr: Toluene-d8	50.070		50.00		100	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	46.160	5.0	40.00	0	115	80	122				
1,1,1-Trichloroethane	49.250	5.0	40.00	0	123	78	124				
1,1,2,2-Tetrachloroethane	41.790	5.0	40.00	0	104	75	124				
1,1,2-Trichloroethane	42.260	5.0	40.00	0	106	80	120				
1,1-Dichloroethane	53.870	5.0	40.00	0	135	77	124				S
1,1-Dichloroethene	48.370	5.0	40.00	0	121	71	133				
1,1-Dichloropropene	44.840	5.0	40.00	0	112	80	120				
1,2,3-Trichlorobenzene	44.440	5.0	40.00	0	111	80	126				
1,2,3-Trichloropropane	38.650	5.0	40.00	0	96.6	78	120				
1,2,4-Trichlorobenzene	44.440	5.0	40.00	0	111	77	129				
1,2,4-Trimethylbenzene	44.650	5.0	40.00	0	112	80	120				
1,2-Dibromo-3-chloropropane	43.010	10	40.00	0	108	65	134				
1,2-Dibromoethane	43.820	5.0	40.00	0	110	80	120				
1,2-Dichlorobenzene	42.030	5.0	40.00	0	105	80	120				
1,2-Dichloroethane	44.950	5.0	40.00	0	112	80	120				
1,2-Dichloropropane	43.470	5.0	40.00	0	109	80	120				
1,3,5-Trimethylbenzene	45.100	5.0	40.00	0	113	80	120				
1,3-Dichlorobenzene	42.700	5.0	40.00	0	107	80	120				
1,3-Dichloropropane	41.960	5.0	40.00	0	105	80	120				
1,4-Dichlorobenzene	41.180	5.0	40.00	0	103	80	120				
2,2-Dichloropropane	49.650	5.0	40.00	0	124	73	126				
2-Butanone	428.250	50	400.0	0	107	40	160				
2-Chlorotoluene	43.710	5.0	40.00	0	109	80	120				
4-Chlorotoluene	43.970	5.0	40.00	0	110	80	120				
4-Isopropyltoluene	45.300	5.0	40.00	0	113	79	122				
Benzene	43.460	5.0	40.00	0	109	80	120				
Bromobenzene	42.550	5.0	40.00	0	106	80	120				
Bromodichloromethane	43.890	5.0	40.00	0	110	80	120				
Bromoform	44.350	5.0	40.00	0	111	68	141				
Bromomethane	49.210	5.0	40.00	0	123	52	153				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	49.810	5.0	40.00	0	125	72	132				
Chlorobenzene	42.150	5.0	40.00	0	105	80	120				
Chloroethane	53.800	5.0	40.00	0	134	71	135				
Chloroform	44.690	5.0	40.00	0	112	80	121				
Chloromethane	41.240	5.0	40.00	0	103	58	134				
cis-1,2-Dichloroethene	42.920	5.0	40.00	0	107	80	120				
cis-1,3-Dichloropropene	44.230	5.0	40.00	0	111	80	120				
Dibromochloromethane	44.320	5.0	40.00	0	111	80	126				
Dibromomethane	42.800	5.0	40.00	0	107	80	120				
Dichlorodifluoromethane	43.470	5.0	40.00	0	109	67	140				
Ethylbenzene	43.140	5.0	40.00	0	108	80	120				
Freon-113	51.630	5.0	40.00	0	129	72	136				
Hexachlorobutadiene	43.800	5.0	40.00	0	110	76	124				
Isopropylbenzene	43.660	5.0	40.00	0	109	80	120				
m,p-Xylene	89.750	10	80.00	0	112	80	120				
Methylene chloride	48.640	5.0	40.00	0	122	61	138				
MTBE	50.390	5.0	40.00	0	126	73	127				
n-Butylbenzene	44.870	5.0	40.00	0	112	79	124				
n-Propylbenzene	44.130	5.0	40.00	0	110	80	120				
Naphthalene	38.820	5.0	40.00	0	97.0	67	133				
o-Xylene	43.540	5.0	40.00	0	109	80	120				
sec-Butylbenzene	44.940	5.0	40.00	0	112	80	120				
Styrene	44.230	5.0	40.00	0	111	80	120				
tert-Butylbenzene	44.380	5.0	40.00	0	111	80	120				
Tetrachloroethene	44.530	5.0	40.00	0	111	77	123				
Toluene	43.820	5.0	40.00	0	110	80	120				
trans-1,2-Dichloroethene	50.590	5.0	40.00	0	126	78	126				S
Trichloroethene	43.580	5.0	40.00	0	109	80	121				
Trichlorofluoromethane	51.240	5.0	40.00	0	128	75	137				
Vinyl chloride	47.230	5.0	40.00	0	118	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412LCS** SampType: **LCS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	56.810		50.00		114	75	140				
Surr: 4-Bromofluorobenzene	54.290		50.00		109	73	128				
Surr: Dibromofluoromethane	55.620		50.00		111	78	133				
Surr: Toluene-d8	53.610		50.00		107	80	120				

Sample ID: **R160412LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS02** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	44.950	5.0	40.00	0	112	80	122	46.16	2.66	20	
1,1,1-Trichloroethane	49.430	5.0	40.00	0	124	78	124	49.25	0.365	20	
1,1,2,2-Tetrachloroethane	41.640	5.0	40.00	0	104	75	124	41.79	0.360	20	
1,1,2-Trichloroethane	42.410	5.0	40.00	0	106	80	120	42.26	0.354	20	
1,1-Dichloroethane	56.290	5.0	40.00	0	141	77	124	53.87	4.39	20	S
1,1-Dichloroethene	49.570	5.0	40.00	0	124	71	133	48.37	2.45	20	
1,1-Dichloropropene	44.260	5.0	40.00	0	111	80	120	44.84	1.30	20	
1,2,3-Trichlorobenzene	45.190	5.0	40.00	0	113	80	126	44.44	1.67	20	
1,2,3-Trichloropropane	42.510	5.0	40.00	0	106	78	120	38.65	9.51	20	
1,2,4-Trichlorobenzene	44.470	5.0	40.00	0	111	77	129	44.44	0.0675	20	
1,2,4-Trimethylbenzene	45.850	5.0	40.00	0	115	80	120	44.65	2.65	20	
1,2-Dibromo-3-chloropropane	41.430	10	40.00	0	104	65	134	43.01	3.74	20	
1,2-Dibromoethane	43.310	5.0	40.00	0	108	80	120	43.82	1.17	20	
1,2-Dichlorobenzene	43.020	5.0	40.00	0	108	80	120	42.03	2.33	20	
1,2-Dichloroethane	44.560	5.0	40.00	0	111	80	120	44.95	0.871	20	
1,2-Dichloropropane	42.140	5.0	40.00	0	105	80	120	43.47	3.11	20	
1,3,5-Trimethylbenzene	46.000	5.0	40.00	0	115	80	120	45.10	1.98	20	
1,3-Dichlorobenzene	42.870	5.0	40.00	0	107	80	120	42.70	0.397	20	
1,3-Dichloropropane	43.290	5.0	40.00	0	108	80	120	41.96	3.12	20	
1,4-Dichlorobenzene	41.590	5.0	40.00	0	104	80	120	41.18	0.991	20	
2,2-Dichloropropane	52.500	5.0	40.00	0	131	73	126	49.65	5.58	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS02** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	454.730	50	400.0	0	114	40	160	428.2	6.00	20	
2-Chlorotoluene	43.850	5.0	40.00	0	110	80	120	43.71	0.320	20	
4-Chlorotoluene	44.300	5.0	40.00	0	111	80	120	43.97	0.748	20	
4-Isopropyltoluene	45.790	5.0	40.00	0	114	79	122	45.30	1.08	20	
Benzene	43.160	5.0	40.00	0	108	80	120	43.46	0.693	20	
Bromobenzene	42.490	5.0	40.00	0	106	80	120	42.55	0.141	20	
Bromodichloromethane	44.310	5.0	40.00	0	111	80	120	43.89	0.952	20	
Bromoform	45.150	5.0	40.00	0	113	68	141	44.35	1.79	20	
Bromomethane	53.330	5.0	40.00	0	133	52	153	49.21	8.04	20	
Carbon tetrachloride	48.610	5.0	40.00	0	122	72	132	49.81	2.44	20	
Chlorobenzene	42.430	5.0	40.00	0	106	80	120	42.15	0.662	20	
Chloroethane	55.850	5.0	40.00	0	140	71	135	53.80	3.74	20	S
Chloroform	47.240	5.0	40.00	0	118	80	121	44.69	5.55	20	
Chloromethane	41.790	5.0	40.00	0	104	58	134	41.24	1.32	20	
cis-1,2-Dichloroethene	44.970	5.0	40.00	0	112	80	120	42.92	4.66	20	
cis-1,3-Dichloropropene	43.360	5.0	40.00	0	108	80	120	44.23	1.99	20	
Dibromochloromethane	45.010	5.0	40.00	0	113	80	126	44.32	1.54	20	
Dibromomethane	42.270	5.0	40.00	0	106	80	120	42.80	1.25	20	
Dichlorodifluoromethane	44.910	5.0	40.00	0	112	67	140	43.47	3.26	20	
Ethylbenzene	42.710	5.0	40.00	0	107	80	120	43.14	1.00	20	
Freon-113	51.890	5.0	40.00	0	130	72	136	51.63	0.502	20	
Hexachlorobutadiene	43.990	5.0	40.00	0	110	76	124	43.80	0.433	20	
Isopropylbenzene	43.490	5.0	40.00	0	109	80	120	43.66	0.390	20	
m,p-Xylene	89.570	10	80.00	0	112	80	120	89.75	0.201	20	
Methylene chloride	50.890	5.0	40.00	0	127	61	138	48.64	4.52	20	
MTBE	51.950	5.0	40.00	0	130	73	127	50.39	3.05	20	S
n-Butylbenzene	44.570	5.0	40.00	0	111	79	124	44.87	0.671	20	
n-Propylbenzene	44.040	5.0	40.00	0	110	80	120	44.13	0.204	20	
Naphthalene	38.980	5.0	40.00	0	97.5	67	133	38.82	0.411	20	
o-Xylene	43.600	5.0	40.00	0	109	80	120	43.54	0.138	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412LCSD** SampType: **LCSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **LCSS02** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	44.730	5.0	40.00	0	112	80	120	44.94	0.468	20	
Styrene	45.170	5.0	40.00	0	113	80	120	44.23	2.10	20	
tert-Butylbenzene	43.540	5.0	40.00	0	109	80	120	44.38	1.91	20	
Tetrachloroethene	43.560	5.0	40.00	0	109	77	123	44.53	2.20	20	
Toluene	43.890	5.0	40.00	0	110	80	120	43.82	0.160	20	
trans-1,2-Dichloroethene	50.940	5.0	40.00	0	127	78	126	50.59	0.689	20	S
Trichloroethene	42.690	5.0	40.00	0	107	80	121	43.58	2.06	20	
Trichlorofluoromethane	52.360	5.0	40.00	0	131	75	137	51.24	2.16	20	
Vinyl chloride	49.580	5.0	40.00	0	124	75	125	47.23	4.85	20	
Surr: 1,2-Dichloroethane-d4	59.020		50.00		118	75	140		0		
Surr: 4-Bromofluorobenzene	55.410		50.00		111	73	128		0		
Surr: Dibromofluoromethane	57.400		50.00		115	78	133		0		
Surr: Toluene-d8	54.120		50.00		108	80	120		0		

Sample ID: **R160412MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **PBS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **PBS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	0.730	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Freon-113	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **R160412MB3** SampType: **MBLK** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **PBS** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2293753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	2.520	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	66.680		50.00		133	75	140				
Surr: 4-Bromofluorobenzene	47.470		50.00		94.9	73	128				
Surr: Dibromofluoromethane	66.500		50.00		133	78	133				
Surr: Toluene-d8	53.910		50.00		108	80	120				

Sample ID: **N019343-001AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	36.340	5.0	40.00	0	90.9	61	125				
1,1,1-Trichloroethane	39.080	5.0	40.00	0	97.7	64	123				
1,1,2,2-Tetrachloroethane	34.450	5.0	40.00	0	86.1	50	128				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019343-001AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	38.050	5.0	40.00	0	95.1	62	135				
1,1-Dichloroethane	46.420	5.0	40.00	0	116	65	124				
1,1-Dichloroethene	41.490	5.0	40.00	0	104	62	130				
1,1-Dichloropropene	36.340	5.0	40.00	0	90.9	64	119				
1,2,3-Trichlorobenzene	27.300	5.0	40.00	0	68.2	24	145				
1,2,3-Trichloropropane	34.500	5.0	40.00	0	86.2	26	159				
1,2,4-Trichlorobenzene	25.120	5.0	40.00	0	62.8	26	144				
1,2,4-Trimethylbenzene	33.650	5.0	40.00	0	84.1	42	137				
1,2-Dibromo-3-chloropropane	35.040	10	40.00	0	87.6	44	131				
1,2-Dibromoethane	37.540	5.0	40.00	0	93.8	68	129				
1,2-Dichlorobenzene	31.270	5.0	40.00	0	78.2	52	129				
1,2-Dichloroethane	38.830	5.0	40.00	0	97.1	68	126				
1,2-Dichloropropane	37.170	5.0	40.00	0	92.9	69	120				
1,3,5-Trimethylbenzene	34.790	5.0	40.00	0	87.0	46	130				
1,3-Dichlorobenzene	31.000	5.0	40.00	0	77.5	51	126				
1,3-Dichloropropane	35.530	5.0	40.00	0	88.8	68	121				
1,4-Dichlorobenzene	29.530	5.0	40.00	0	73.8	51	125				
2,2-Dichloropropane	38.640	5.0	40.00	0	96.6	56	128				
2-Butanone	436.220	50	400.0	0	109	33	178				
2-Chlorotoluene	32.910	5.0	40.00	0	82.3	54	122				
4-Chlorotoluene	32.280	5.0	40.00	0	80.7	54	121				
4-Isopropyltoluene	33.120	5.0	40.00	0	82.8	44	127				
Benzene	35.840	5.0	40.00	0	89.6	71	120				
Bromobenzene	33.150	5.0	40.00	0	82.9	60	123				
Bromodichloromethane	38.090	5.0	40.00	0	95.2	68	125				
Bromoform	37.260	5.0	40.00	0	93.2	53	137				
Bromomethane	42.320	5.0	40.00	0.7300	104	35	160				
Carbon tetrachloride	40.430	5.0	40.00	0	101	52	131				
Chlorobenzene	32.450	5.0	40.00	0	81.1	64	120				
Chloroethane	43.350	5.0	40.00	0	108	49	143				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019343-001AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	37.890	5.0	40.00	0	94.7	65	125				
Chloromethane	33.540	5.0	40.00	0	83.9	43	135				
cis-1,2-Dichloroethene	34.630	5.0	40.00	0	86.6	68	125				
cis-1,3-Dichloropropene	34.990	5.0	40.00	0	87.5	65	126				
Dibromochloromethane	37.150	5.0	40.00	0	92.9	62	130				
Dibromomethane	36.290	5.0	40.00	0	90.7	71	122				
Dichlorodifluoromethane	34.530	5.0	40.00	0	86.3	49	146				
Ethylbenzene	32.750	5.0	40.00	0	81.9	59	120				
Freon-113	41.630	5.0	40.00	0	104	59	132				
Hexachlorobutadiene	29.630	5.0	40.00	0	74.1	18	135				
Isopropylbenzene	32.770	5.0	40.00	0	81.9	54	122				
m,p-Xylene	67.470	10	80.00	0	84.3	43	136				
Methylene chloride	42.070	5.0	40.00	2.270	99.5	48	144				
MTBE	44.850	5.0	40.00	0	112	60	140				
n-Butylbenzene	30.520	5.0	40.00	0	76.3	36	132				
n-Propylbenzene	33.140	5.0	40.00	0	82.8	49	126				
Naphthalene	25.070	5.0	40.00	0	62.7	27	140				
o-Xylene	32.230	5.0	40.00	0	80.6	47	135				
sec-Butylbenzene	33.550	5.0	40.00	0	83.9	46	125				
Styrene	32.610	5.0	40.00	0	81.5	61	124				
tert-Butylbenzene	33.230	5.0	40.00	0	83.1	50	123				
Tetrachloroethene	34.290	5.0	40.00	0	85.7	56	120				
Toluene	37.400	5.0	40.00	0	93.5	66	120				
trans-1,2-Dichloroethene	40.910	5.0	40.00	0	102	66	126				
Trichloroethene	36.820	5.0	40.00	0	92.0	58	139				
Trichlorofluoromethane	41.700	5.0	40.00	0	104	63	135				
Vinyl chloride	38.740	5.0	40.00	0	96.9	63	126				
Surr: 1,2-Dichloroethane-d4	60.210		50.00		120	75	140				
Surr: 4-Bromofluorobenzene	52.240		50.00		104	73	128				
Surr: Dibromofluoromethane	57.070		50.00		114	78	133				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019343-001AMS** SampType: **MS** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	54.560		50.00		109	80	120				

Sample ID: **N019343-001AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	37.880	5.0	40.00	0	94.7	61	125	36.34	4.15	20	
1,1,1-Trichloroethane	41.520	5.0	40.00	0	104	64	123	39.08	6.05	20	
1,1,2,2-Tetrachloroethane	35.840	5.0	40.00	0	89.6	50	128	34.45	3.96	20	
1,1,2-Trichloroethane	40.340	5.0	40.00	0	101	62	135	38.05	5.84	20	
1,1-Dichloroethane	48.020	5.0	40.00	0	120	65	124	46.42	3.39	20	
1,1-Dichloroethene	43.210	5.0	40.00	0	108	62	130	41.49	4.06	20	
1,1-Dichloropropene	37.840	5.0	40.00	0	94.6	64	119	36.34	4.04	20	
1,2,3-Trichlorobenzene	27.380	5.0	40.00	0	68.4	24	145	27.30	0.293	20	
1,2,3-Trichloropropane	38.000	5.0	40.00	0	95.0	26	159	34.50	9.66	20	
1,2,4-Trichlorobenzene	25.980	5.0	40.00	0	65.0	26	144	25.12	3.37	20	
1,2,4-Trimethylbenzene	34.350	5.0	40.00	0	85.9	42	137	33.65	2.06	20	
1,2-Dibromo-3-chloropropane	37.490	10	40.00	0	93.7	44	131	35.04	6.76	20	
1,2-Dibromoethane	39.960	5.0	40.00	0	99.9	68	129	37.54	6.25	20	
1,2-Dichlorobenzene	31.280	5.0	40.00	0	78.2	52	129	31.27	0.0320	20	
1,2-Dichloroethane	40.920	5.0	40.00	0	102	68	126	38.83	5.24	20	
1,2-Dichloropropane	38.250	5.0	40.00	0	95.6	69	120	37.17	2.86	20	
1,3,5-Trimethylbenzene	35.190	5.0	40.00	0	88.0	46	130	34.79	1.14	20	
1,3-Dichlorobenzene	31.190	5.0	40.00	0	78.0	51	126	31.00	0.611	20	
1,3-Dichloropropane	37.440	5.0	40.00	0	93.6	68	121	35.53	5.24	20	
1,4-Dichlorobenzene	30.060	5.0	40.00	0	75.2	51	125	29.53	1.78	20	
2,2-Dichloropropane	41.780	5.0	40.00	0	104	56	128	38.64	7.81	20	
2-Butanone	443.970	50	400.0	0	111	33	178	436.2	1.76	20	
2-Chlorotoluene	33.670	5.0	40.00	0	84.2	54	122	32.91	2.28	20	
4-Chlorotoluene	32.800	5.0	40.00	0	82.0	54	121	32.28	1.60	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019343-001AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	34.290	5.0	40.00	0	85.7	44	127	33.12	3.47	20	
Benzene	37.820	5.0	40.00	0	94.6	71	120	35.84	5.38	20	
Bromobenzene	33.530	5.0	40.00	0	83.8	60	123	33.15	1.14	20	
Bromodichloromethane	40.400	5.0	40.00	0	101	68	125	38.09	5.89	20	
Bromoform	39.360	5.0	40.00	0	98.4	53	137	37.26	5.48	20	
Bromomethane	44.430	5.0	40.00	0.7300	109	35	160	42.32	4.86	20	
Carbon tetrachloride	42.820	5.0	40.00	0	107	52	131	40.43	5.74	20	
Chlorobenzene	33.680	5.0	40.00	0	84.2	64	120	32.45	3.72	20	
Chloroethane	46.010	5.0	40.00	0	115	49	143	43.35	5.95	20	
Chloroform	39.630	5.0	40.00	0	99.1	65	125	37.89	4.49	20	
Chloromethane	36.120	5.0	40.00	0	90.3	43	135	33.54	7.41	20	
cis-1,2-Dichloroethene	38.070	5.0	40.00	0	95.2	68	125	34.63	9.46	20	
cis-1,3-Dichloropropene	37.780	5.0	40.00	0	94.4	65	126	34.99	7.67	20	
Dibromochloromethane	39.160	5.0	40.00	0	97.9	62	130	37.15	5.27	20	
Dibromomethane	39.230	5.0	40.00	0	98.1	71	122	36.29	7.79	20	
Dichlorodifluoromethane	35.080	5.0	40.00	0	87.7	49	146	34.53	1.58	20	
Ethylbenzene	34.450	5.0	40.00	0	86.1	59	120	32.75	5.06	20	
Freon-113	43.310	5.0	40.00	0	108	59	132	41.63	3.96	20	
Hexachlorobutadiene	30.410	5.0	40.00	0	76.0	18	135	29.63	2.60	20	
Isopropylbenzene	34.670	5.0	40.00	0	86.7	54	122	32.77	5.63	20	
m,p-Xylene	69.700	10	80.00	0	87.1	43	136	67.47	3.25	20	
Methylene chloride	44.690	5.0	40.00	2.270	106	48	144	42.07	6.04	20	
MTBE	47.920	5.0	40.00	0	120	60	140	44.85	6.62	20	
n-Butylbenzene	32.210	5.0	40.00	0	80.5	36	132	30.52	5.39	20	
n-Propylbenzene	34.090	5.0	40.00	0	85.2	49	126	33.14	2.83	20	
Naphthalene	25.130	5.0	40.00	0	62.8	27	140	25.07	0.239	20	
o-Xylene	33.340	5.0	40.00	0	83.4	47	135	32.23	3.39	20	
sec-Butylbenzene	34.800	5.0	40.00	0	87.0	46	125	33.55	3.66	20	
Styrene	33.030	5.0	40.00	0	82.6	61	124	32.61	1.28	20	
tert-Butylbenzene	34.920	5.0	40.00	0	87.3	50	123	33.23	4.96	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260SOIL

Sample ID: **N019343-001AMSD** SampType: **MSD** TestCode: **8260SOIL** Units: **µg/Kg** Prep Date: RunNo: **106891**
Client ID: **ZZZZZZ** Batch ID: **R16VS060** TestNo: **EPA 8260B** Analysis Date: **4/12/2016** SeqNo: **2294393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	34.870	5.0	40.00	0	87.2	56	120	34.29	1.68	20	
Toluene	39.160	5.0	40.00	0	97.9	66	120	37.40	4.60	20	
trans-1,2-Dichloroethene	42.660	5.0	40.00	0	107	66	126	40.91	4.19	20	
Trichloroethene	38.120	5.0	40.00	0	95.3	58	139	36.82	3.47	20	
Trichlorofluoromethane	43.830	5.0	40.00	0	110	63	135	41.70	4.98	20	
Vinyl chloride	40.130	5.0	40.00	0	100	63	126	38.74	3.52	20	
Surr: 1,2-Dichloroethane-d4	61.560		50.00		123	75	140		0		
Surr: 4-Bromofluorobenzene	53.360		50.00		107	73	128		0		
Surr: Dibromofluoromethane	59.190		50.00		118	78	133		0		
Surr: Toluene-d8	55.890		50.00		112	80	120		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_TC

Sample ID: **LCS-56980** SampType: **LCS** TestCode: **8270_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106926**
Client ID: **LCSS** Batch ID: **56980** TestNo: **EPA 1311/ 82 EPA 3510C** Analysis Date: **4/12/2016** SeqNo: **2295643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.066	0.010	0.1000	0	66.1	30	120				
1,4-Dichlorobenzene	0.058	0.010	0.1000	0	57.6	28	120				
2,4-Dinitrotoluene	0.080	0.010	0.1000	0	80.0	59	120				
2-Chlorophenol	0.066	0.010	0.1000	0	65.9	20	120				
4-Chloro-3-methylphenol	0.079	0.050	0.1000	0	79.2	46	120				
4-Nitrophenol	0.075	0.050	0.1000	0	74.5	30	120				
Acenaphthene	0.069	0.010	0.1000	0	69.4	45	120				
N-Nitrosodi-n-propylamine	0.075	0.010	0.1000	0	75.0	25	120				
Pentachlorophenol	0.044	0.050	0.1000	0	44.5	40	120				
Phenol	0.049	0.010	0.1000	0	49.0	24	120				
Pyrene	0.088	0.010	0.1000	0	88.5	57	120				
Surr: 1,2-Dichlorobenzene-d4	0.068		0.1000		67.6	16	120				
Surr: 2,4,6-Tribromophenol	0.094		0.1000		94.0	29	134				
Surr: 2-Chlorophenol-d4	0.073		0.1000		73.3	18	120				
Surr: 2-Fluorobiphenyl	0.077		0.1000		76.7	25	120				
Surr: 2-Fluorophenol	0.064		0.1000		64.2	16	120				
Surr: 4-Terphenyl-d14	0.094		0.1000		93.6	46	132				
Surr: Nitrobenzene-d5	0.074		0.1000		73.8	24	120				
Surr: Phenol-d5	0.054		0.1000		54.4	15	120				

Sample ID: **MB-56980** SampType: **MBLK** TestCode: **8270_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106926**
Client ID: **PBS** Batch ID: **56980** TestNo: **EPA 1311/ 82 EPA 3510C** Analysis Date: **4/12/2016** SeqNo: **2295645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
[PARAMETER2]	ND	0.010									
1,4-Dichlorobenzene	ND	0.010									
2,4,5-Trichlorophenol	ND	0.010									
2,4,6-Trichlorophenol	ND	0.010									
2,4-Dinitrotoluene	ND	0.010									
2-Methylphenol	ND	0.010									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_TC

Sample ID: **MB-56980**	SampType: **MBLK**	TestCode: **8270_TC**	Units: **mg/L**	Prep Date: **4/12/2016**	RunNo: **106926**
Client ID: **PBS**	Batch ID: **56980**	TestNo: **EPA 1311/ 82**	**EPA 3510C**	Analysis Date: **4/12/2016**	SeqNo: **2295645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methylphenol	ND	0.010									
Hexachlorobenzene	ND	0.010									
Hexachlorobutadiene	ND	0.020									
Hexachloroethane	ND	0.010									
Nitrobenzene	ND	0.010									
Pentachlorophenol	ND	0.050									
Pyridine	ND	0.050									
Surr: 1,2-Dichlorobenzene-d4	0.075		0.1000		75.2	16	120				
Surr: 2,4,6-Tribromophenol	0.078		0.1000		77.6	29	134				
Surr: 2-Chlorophenol-d4	0.077		0.1000		76.7	18	120				
Surr: 2-Fluorobiphenyl	0.081		0.1000		80.5	25	120				
Surr: 2-Fluorophenol	0.065		0.1000		64.6	16	120				
Surr: 4-Terphenyl-d14	0.090		0.1000		89.7	46	132				
Surr: Nitrobenzene-d5	0.079		0.1000		79.4	24	120				
Surr: Phenol-d5	0.052		0.1000		51.9	15	120				

Sample ID: **MB-56966**	SampType: **MBLK**	TestCode: **8270_TC**	Units: **mg/L**	Prep Date: **4/12/2016**	RunNo: **106926**
Client ID: **PBS**	Batch ID: **56980**	TestNo: **EPA 1311/ 82**	**EPA 3510C**	Analysis Date: **4/12/2016**	SeqNo: **2295646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
[PARAMETER2]	ND	0.010									
1,4-Dichlorobenzene	ND	0.010									
2,4,5-Trichlorophenol	ND	0.010									
2,4,6-Trichlorophenol	ND	0.010									
2,4-Dinitrotoluene	ND	0.010									
2-Methylphenol	ND	0.010									
4-Methylphenol	ND	0.010									
Hexachlorobenzene	ND	0.010									
Hexachlorobutadiene	ND	0.020									
Hexachloroethane	ND	0.010									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_TC

Sample ID: **MB-56966** SampType: **MBLK** TestCode: **8270_TC** Units: **mg/L** Prep Date: **4/12/2016** RunNo: **106926**
Client ID: **PBS** Batch ID: **56980** TestNo: **EPA 1311/ 82 EPA 3510C** Analysis Date: **4/12/2016** SeqNo: **2295646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	ND	0.010									
Pentachlorophenol	ND	0.050									
Pyridine	ND	0.050									
Surr: 1,2-Dichlorobenzene-d4	0.057		0.1000		56.8	16	120				
Surr: 2,4,6-Tribromophenol	0.086		0.1000		85.5	29	134				
Surr: 2-Chlorophenol-d4	0.060		0.1000		59.8	18	120				
Surr: 2-Fluorobiphenyl	0.063		0.1000		63.2	25	120				
Surr: 2-Fluorophenol	0.052		0.1000		52.0	16	120				
Surr: 4-Terphenyl-d14	0.093		0.1000		93.3	46	132				
Surr: Nitrobenzene-d5	0.063		0.1000		62.5	24	120				
Surr: Phenol-d5	0.043		0.1000		43.0	15	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **LCSS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3919.000	330	5000	0	78.4	42	120				
1,2-Dichlorobenzene	3806.000	330	5000	0	76.1	39	120				
1,3-Dichlorobenzene	3603.500	330	5000	0	72.1	36	120				
1,4-Dichlorobenzene	3801.000	330	5000	0	76.0	39	120				
2,4,5-Trichlorophenol	3873.000	330	5000	0	77.5	47	120				
2,4,6-Trichlorophenol	3885.000	330	5000	0	77.7	50	120				
2,4-Dichlorophenol	4008.000	1600	5000	0	80.2	47	120				
2,4-Dimethylphenol	3970.500	330	5000	0	79.4	48	120				
2,4-Dinitrophenol	1029.000	1600	5000	0	20.6	15	120				
2,4-Dinitrotoluene	4264.500	330	5000	0	85.3	63	120				
2,6-Dinitrotoluene	4102.500	330	5000	0	82.0	60	120				
2-Chloronaphthalene	3969.500	330	5000	0	79.4	52	120				
2-Chlorophenol	3744.000	330	5000	0	74.9	42	120				
2-Methylnaphthalene	3954.500	330	5000	0	79.1	47	120				
2-Methylphenol	4122.500	330	5000	0	82.5	45	120				
2-Nitroaniline	4582.500	1600	5000	0	91.7	52	125				
2-Nitrophenol	3802.000	330	5000	0	76.0	41	120				
3,3´-Dichlorobenzidine	7378.000	660	10000	0	73.8	37	120				
3-Nitroaniline	4101.500	1600	5000	0	82.0	57	120				
4,6-Dinitro-2-methylphenol	2618.000	1600	5000	0	52.4	21	120				
4-Bromophenyl-phenylether	4476.500	330	5000	0	89.5	60	120				
4-Chloro-3-methylphenol	4328.000	660	5000	0	86.6	55	120				
4-Chloroaniline	3192.000	660	5000	0	63.8	32	120				
4-Chlorophenyl-phenylether	4509.500	330	5000	0	90.2	58	120				
3/4-Methylphenol	3890.500	330	5000	0	77.8	48	120				
4-Methylphenol	3890.500	330	5000	0	77.8	48	120				
4-Nitroaniline	4948.500	1600	5000	0	99.0	49	120				
4-Nitrophenol	4298.000	1600	5000	0	86.0	39	120				
Acenaphthene	3876.000	330	5000	0	77.5	56	120				
Acenaphthylene	4013.500	330	5000	0	80.3	55	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **LCSS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	4481.000	330	5000	0	89.6	61	120				
Benzo(a)anthracene	4434.500	330	5000	0	88.7	62	112				
Benzo(a)pyrene	4383.000	200	5000	0	87.7	58	108				
Benzo(b)fluoranthene	5033.500	330	5000	0	101	49	129				
Benzo(g,h,i)perylene	4295.500	330	5000	0	85.9	25	135				
Benzo(k)fluoranthene	4258.000	330	5000	0	85.2	53	120				
Benzyl alcohol	3548.500	660	5000	0	71.0	36	120				
Bis(2-chloroethoxy)methane	4174.000	330	5000	0	83.5	47	120				
Bis(2-chloroethyl)ether	3957.500	330	5000	0	79.2	37	120				
Bis(2-chloroisopropyl)ether	4330.000	330	5000	0	86.6	34	120				
Bis(2-ethylhexyl)phthalate	4566.000	330	5000	0	91.3	61	127				
Butylbenzylphthalate	4357.000	330	5000	0	87.1	61	126				
Chrysene	4513.000	330	5000	0	90.3	53	133				
Di-n-butylphthalate	4917.000	330	5000	0	98.3	59	120				
Di-n-octylphthalate	4851.000	330	5000	0	97.0	50	143				
Dibenz(a,h)anthracene	4674.500	200	5000	0	93.5	32	146				
Dibenzofuran	4065.500	330	5000	0	81.3	57	120				
Diethylphthalate	4802.000	330	5000	0	96.0	62	120				
Dimethylphthalate	4435.000	330	5000	0	88.7	60	120				
Fluoranthene	4777.500	330	5000	0	95.6	60	120				
Fluorene	4432.000	330	5000	0	88.6	60	120				
Hexachlorobenzene	4414.500	330	5000	0	88.3	62	120				
Hexachlorocyclopentadiene	4393.000	660	5000	0	87.9	22	126				
Hexachloroethane	3854.500	330	5000	0	77.1	44	120				
Indeno(1,2,3-cd)pyrene	4475.500	330	5000	0	89.5	34	128				
Isophorone	4509.500	330	5000	0	90.2	47	120				
N-Nitrosodi-n-propylamine	4157.500	330	5000	0	83.2	24	120				
N-Nitrosodiphenylamine	4353.000	330	5000	0	87.1	60	120				
Naphthalene	4084.000	330	5000	0	81.7	46	120				
Nitrobenzene	4053.500	330	5000	0	81.1	41	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **LCS-56963** SampType: **LCS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **LCSS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	2035.000	1600	5000	0	40.7	28	120				
Phenanthrene	4501.500	330	5000	0	90.0	60	120				
Phenol	3693.500	330	5000	0	73.9	40	120				
Pyrene	4895.500	330	5000	0	97.9	58	120				
Pyridine	2839.500	1600	5000	0	56.8	27	120				
Surr: 1,2-Dichlorobenzene-d4	4018.000		5000		80.4	21	120				
Surr: 2,4,6-Tribromophenol	4701.500		5000		94.0	25	129				
Surr: 2-Chlorophenol-d4	4313.500		5000		86.3	24	120				
Surr: 2-Fluorobiphenyl	4412.000		5000		88.2	33	120				
Surr: 2-Fluorophenol	4120.000		5000		82.4	21	120				
Surr: 4-Terphenyl-d14	4679.500		5000		93.6	37	135				
Surr: Nitrobenzene-d5	4351.000		5000		87.0	26	120				
Surr: Phenol-d5	4184.000		5000		83.7	25	120				

Sample ID: **MB-56963** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **PBS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **PBS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3´-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
3/4-Methylphenol	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	200									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963** SampType: **MBLK** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106923**
Client ID: **PBS** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/12/2016** SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	200									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Pyridine	ND	1600									
Surr: 1,2-Dichlorobenzene-d4	4100.500		5000		82.0	21	120				
Surr: 2,4,6-Tribromophenol	3207.500		5000		64.2	25	129				
Surr: 2-Chlorophenol-d4	4307.000		5000		86.1	24	120				
Surr: 2-Fluorobiphenyl	4383.500		5000		87.7	33	120				
Surr: 2-Fluorophenol	4048.000		5000		81.0	21	120				
Surr: 4-Terphenyl-d14	4743.500		5000		94.9	37	135				
Surr: Nitrobenzene-d5	4219.000		5000		84.4	26	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **MB-56963**	SampType: **MBLK**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106923**
Client ID: **PBS**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/12/2016**	SeqNo: **2295611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Phenol-d5	4165.500		5000		83.3	25	120				

Sample ID: **N019342-001A-MS**	SampType: **MS**	TestCode: **8270SOIL_M**	Units: **µg/Kg**	Prep Date: **4/11/2016**	RunNo: **106927**
Client ID: **ZZZZZZ**	Batch ID: **56963**	TestNo: **EPA 8270C**	**EPA 3546**	Analysis Date: **4/13/2016**	SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4078.618	330	5008	0	81.5	22	120				
1,2-Dichlorobenzene	3879.319	330	5008	0	77.5	16	120				
1,3-Dichlorobenzene	3630.446	330	5008	0	72.5	14	120				
1,4-Dichlorobenzene	3769.154	330	5008	0	75.3	15	120				
2,4,5-Trichlorophenol	4479.219	330	5008	0	89.4	22	120				
2,4,6-Trichlorophenol	4186.780	330	5008	0	83.6	19	120				
2,4-Dichlorophenol	4142.714	1700	5008	0	82.7	18	120				
2,4-Dimethylphenol	3143.215	330	5008	0	62.8	22	120				
2,4-Dinitrophenol	1064.096	1700	5008	0	21.2	14	120				
2,4-Dinitrotoluene	4322.984	330	5008	0	86.3	24	120				
2,6-Dinitrotoluene	4200.300	330	5008	0	83.9	30	120				
2-Chloronaphthalene	4046.069	330	5008	0	80.8	29	120				
2-Chlorophenol	3959.439	330	5008	0	79.1	16	120				
2-Methylnaphthalene	4043.065	330	5008	0	80.7	24	120				
2-Methylphenol	3967.952	330	5008	0	79.2	19	120				
2-Nitroaniline	4719.079	1700	5008	0	94.2	21	120				
2-Nitrophenol	3987.982	330	5008	0	79.6	11	120				
3,3´-Dichlorobenzidine	6513.270	660	10020	0	65.0	14	120				
3-Nitroaniline	4151.227	1700	5008	0	82.9	27	120				
4,6-Dinitro-2-methylphenol	2676.515	1700	5008	0	53.5	18	120				
4-Bromophenyl-phenylether	4692.038	330	5008	0	93.7	35	120				
4-Chloro-3-methylphenol	4427.141	660	5008	0	88.4	21	120				
4-Chloroaniline	3124.186	660	5008	0	62.4	13	120				
4-Chlorophenyl-phenylether	4883.325	330	5008	0	97.5	35	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3/4-Methylphenol	3926.890	330	5008	0	78.4	19	120				
4-Methylphenol	3926.890	330	5008	0	78.4	19	120				
4-Nitroaniline	4735.103	1700	5008	0	94.6	16	120				
4-Nitrophenol	4499.750	1700	5008	0	89.9	12	120				
Acenaphthene	4006.510	330	5008	0	80.0	29	120				
Acenaphthylene	4122.684	330	5008	0	82.3	31	120				
Anthracene	4555.834	330	5008	0	91.0	10	120				
Benzo(a)anthracene	4480.220	330	5008	0	89.5	31	120				
Benzo(a)pyrene	4346.019	200	5008	0	86.8	27	120				
Benzo(b)fluoranthene	5031.547	330	5008	0	100	29	127				
Benzo(g,h,i)perylene	2170.756	330	5008	0	43.4	18	120				
Benzo(k)fluoranthene	4604.907	330	5008	0	92.0	21	135				
Benzyl alcohol	3575.363	660	5008	0	71.4	15	120				
Bis(2-chloroethoxy)methane	4203.806	330	5008	0	84.0	25	120				
Bis(2-chloroethyl)ether	4154.732	330	5008	0	83.0	13	120				
Bis(2-chloroisopropyl)ether	4459.189	330	5008	0	89.0	14	120				
Bis(2-ethylhexyl)phthalate	4933.901	330	5008	0	98.5	23	130				
Butylbenzylphthalate	4716.074	330	5008	0	94.2	24	136				
Chrysene	4437.656	330	5008	0	88.6	25	122				
Di-n-butylphthalate	5150.225	330	5008	0	103	33	120				
Di-n-octylphthalate	6355.033	330	5008	0	127	35	132				
Dibenz(a,h)anthracene	2806.209	200	5008	0	56.0	17	120				
Dibenzofuran	4287.431	330	5008	0	85.6	32	120				
Diethylphthalate	4866.800	330	5008	0	97.2	35	120				
Dimethylphthalate	4618.428	330	5008	0	92.2	34	120				
Fluoranthene	4771.657	330	5008	0	95.3	19	120				
Fluorene	4574.862	330	5008	0	91.4	29	120				
Hexachlorobenzene	4965.448	330	5008	218.0	94.8	34	120				
Hexachlorocyclopentadiene	4044.567	660	5008	0	80.8	14	120				
Hexachloroethane	3845.268	330	5008	0	76.8	22	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MS** SampType: **MS** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	2627.942	330	5008	0	52.5	11	120				
Isophorone	4625.438	330	5008	0	92.4	12	120				
N-Nitrosodi-n-propylamine	4328.993	330	5008	0	86.5	24	120				
N-Nitrosodiphenylamine	4443.165	330	5008	0	88.7	34	120				
Naphthalene	3973.460	330	5008	0	79.4	24	120				
Nitrobenzene	4133.200	330	5008	0	82.5	21	120				
Pentachlorophenol	2321.482	1700	5008	0	46.4	15	120				
Phenanthrene	4667.001	330	5008	0	93.2	32	120				
Phenol	3788.683	330	5008	0	75.7	16	120				
Pyrene	4854.782	330	5008	0	97.0	19	120				
Pyridine	2898.848	1700	5008	0	57.9	13	120				
Surr: 1,2-Dichlorobenzene-d4	4009.514		5008		80.1	21	120				
Surr: 2,4,6-Tribromophenol	5047.571		5008		101	25	129				
Surr: 2-Chlorophenol-d4	4241.863		5008		84.7	24	120				
Surr: 2-Fluorobiphenyl	4391.587		5008		87.7	33	120				
Surr: 2-Fluorophenol	4090.135		5008		81.7	21	120				
Surr: 4-Terphenyl-d14	4669.504		5008		93.2	37	135				
Surr: Nitrobenzene-d5	4236.355		5008		84.6	26	120				
Surr: Phenol-d5	4201.302		5008		83.9	25	120				

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4065.174	330	4975	0	81.7	22	120	4079	0.330	20	
1,2-Dichlorobenzene	3938.308	330	4975	0	79.2	16	120	3879	1.51	20	
1,3-Dichlorobenzene	3679.602	330	4975	0	74.0	14	120	3630	1.34	20	
1,4-Dichlorobenzene	3814.925	330	4975	0	76.7	15	120	3769	1.21	20	
2,4,5-Trichlorophenol	4590.050	330	4975	0	92.3	22	120	4479	2.44	20	
2,4,6-Trichlorophenol	4291.045	330	4975	0	86.2	19	120	4187	2.46	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	4208.955	1600	4975	0	84.6	18	120	4143	1.59	20	
2,4-Dimethylphenol	3567.662	330	4975	0	71.7	22	120	3143	12.6	20	
2,4-Dinitrophenol	1184.577	1600	4975	0	23.8	14	120	1064	0	20	
2,4-Dinitrotoluene	4321.891	330	4975	0	86.9	24	120	4323	0.0253	20	
2,6-Dinitrotoluene	4226.866	330	4975	0	85.0	30	120	4200	0.630	20	
2-Chloronaphthalene	4094.030	330	4975	0	82.3	29	120	4046	1.18	20	
2-Chlorophenol	4029.353	330	4975	0	81.0	16	120	3959	1.75	20	
2-Methylnaphthalene	4067.164	330	4975	0	81.8	24	120	4043	0.594	20	
2-Methylphenol	4186.567	330	4975	0	84.2	19	120	3968	5.36	20	
2-Nitroaniline	4747.264	1600	4975	0	95.4	21	120	4719	0.595	20	
2-Nitrophenol	4065.174	330	4975	0	81.7	11	120	3988	1.92	20	
3,3´-Dichlorobenzidine	6583.582	660	9950	0	66.2	14	120	6513	1.07	20	
3-Nitroaniline	4169.154	1600	4975	0	83.8	27	120	4151	0.431	20	
4,6-Dinitro-2-methylphenol	2849.254	1600	4975	0	57.3	18	120	2677	6.25	20	
4-Bromophenyl-phenylether	4750.746	330	4975	0	95.5	35	120	4692	1.24	20	
4-Chloro-3-methylphenol	4540.796	660	4975	0	91.3	21	120	4427	2.53	20	
4-Chloroaniline	3218.905	660	4975	0	64.7	13	120	3124	2.99	20	
4-Chlorophenyl-phenylether	4901.990	330	4975	0	98.5	35	120	4883	0.381	20	
3/4-Methylphenol	4071.642	330	4975	0	81.8	19	120	3927	3.62	20	
4-Methylphenol	4071.642	330	4975	0	81.8	19	120	3927	3.62	20	
4-Nitroaniline	4734.826	1600	4975	0	95.2	16	120	4735	0.00585	20	
4-Nitrophenol	4677.114	1600	4975	0	94.0	12	120	4500	3.87	20	
Acenaphthene	4173.632	330	4975	0	83.9	29	120	4007	4.09	20	
Acenaphthylene	4168.657	330	4975	0	83.8	31	120	4123	1.11	20	
Anthracene	4677.114	330	4975	0	94.0	10	120	4556	2.63	20	
Benzo(a)anthracene	4593.532	330	4975	0	92.3	31	120	4480	2.50	20	
Benzo(a)pyrene	4501.990	200	4975	0	90.5	27	120	4346	3.53	20	
Benzo(b)fluoranthene	5868.159	330	4975	0	118	29	127	5032	15.4	20	
Benzo(g,h,i)perylene	1935.323	330	4975	0	38.9	18	120	2171	11.5	20	
Benzo(k)fluoranthene	5043.284	330	4975	0	101	21	135	4605	9.09	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzyl alcohol	3532.836	660	4975	0	71.0	15	120	3575	1.20	20	
Bis(2-chloroethoxy)methane	4206.965	330	4975	0	84.6	25	120	4204	0.0751	20	
Bis(2-chloroethyl)ether	4303.980	330	4975	0	86.5	13	120	4155	3.53	20	
Bis(2-chloroisopropyl)ether	4504.478	330	4975	0	90.5	14	120	4459	1.01	20	
Bis(2-ethylhexyl)phthalate	5217.413	330	4975	0	105	23	130	4934	5.59	20	
Butylbenzylphthalate	4772.139	330	4975	0	95.9	24	136	4716	1.18	20	
Chrysene	4678.607	330	4975	0	94.0	25	122	4438	5.29	20	
Di-n-butylphthalate	5039.801	330	4975	0	101	33	120	5150	2.17	20	
Di-n-octylphthalate	7456.219	330	4975	0	150	35	132	6355	15.9	20	S
Dibenz(a,h)anthracene	2595.025	200	4975	0	52.2	17	120	2806	7.82	20	
Dibenzofuran	4314.428	330	4975	0	86.7	32	120	4287	0.628	20	
Diethylphthalate	4913.930	330	4975	0	98.8	35	120	4867	0.964	20	
Dimethylphthalate	4619.403	330	4975	0	92.8	34	120	4618	0.0211	20	
Fluoranthene	4902.488	330	4975	0	98.5	19	120	4772	2.70	20	
Fluorene	4731.841	330	4975	0	95.1	29	120	4575	3.37	20	
Hexachlorobenzene	4908.458	330	4975	218.0	94.3	34	120	4965	1.15	20	
Hexachlorocyclopentadiene	3825.871	660	4975	0	76.9	14	120	4045	5.56	20	
Hexachloroethane	3904.478	330	4975	0	78.5	22	120	3845	1.53	20	
Indeno(1,2,3-cd)pyrene	2420.398	330	4975	0	48.6	11	120	2628	8.22	20	
Isophorone	4611.443	330	4975	0	92.7	12	120	4625	0.303	20	
N-Nitrosodi-n-propylamine	4371.642	330	4975	0	87.9	24	120	4329	0.980	20	
N-Nitrosodiphenylamine	4378.109	330	4975	0	88.0	34	120	4443	1.47	20	
Naphthalene	4129.851	330	4975	0	83.0	24	120	3973	3.86	20	
Nitrobenzene	4123.383	330	4975	0	82.9	21	120	4133	0.238	20	
Pentachlorophenol	2583.582	1600	4975	0	51.9	15	120	2321	10.7	20	
Phenanthrene	4747.761	330	4975	0	95.4	32	120	4667	1.72	20	
Phenol	3889.552	330	4975	0	78.2	16	120	3789	2.63	20	
Pyrene	4885.075	330	4975	0	98.2	19	120	4855	0.622	20	
Pyridine	3073.134	1600	4975	0	61.8	13	120	2899	5.84	20	
Surr: 1,2-Dichlorobenzene-d4	4110.448		4975		82.6	21	120		0		

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270SOIL_M

Sample ID: **N019342-001A-MSD** SampType: **MSD** TestCode: **8270SOIL_M** Units: **µg/Kg** Prep Date: **4/11/2016** RunNo: **106927**
Client ID: **ZZZZZZ** Batch ID: **56963** TestNo: **EPA 8270C** **EPA 3546** Analysis Date: **4/13/2016** SeqNo: **2295662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	5128.358		4975		103	25	129		0		
Surr: 2-Chlorophenol-d4	4340.299		4975		87.2	24	120		0		
Surr: 2-Fluorobiphenyl	4457.711		4975		89.6	33	120		0		
Surr: 2-Fluorophenol	4155.224		4975		83.5	21	120		0		
Surr: 4-Terphenyl-d14	4867.164		4975		97.8	37	135		0		
Surr: Nitrobenzene-d5	4315.423		4975		86.7	26	120		0		
Surr: Phenol-d5	4261.692		4975		85.7	25	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ramboll Environ
Work Order: N019343
Project: NERT, 2138800A, F07

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **N019343-001EDUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **106822**
Client ID: **ZZZZZZ** Batch ID: **R106822** TestNo: **EPA 9045C** Analysis Date: **4/8/2016** SeqNo: **2289164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.140	0.10						8.070	0.864	20	
Temp. at time of pH Analysis	22.600	0						22.80	0.881	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

RAMBOLL ENVIRON

CHAIN-OF-CUSTODY FORM

№ 12703

UST PROJECT OR IS EDF REQUIRED? YES NO IF YES, GLOBAL ID# _____ MSA # _____ WORK ORDER # _____

PROJECT NAME/FACILITY ID: NERT
PROJECT LOCATION: Henderson, NV
PROJECT NUMBER: 2138800A, F07
SAMPLER: Amy Manion
DATE: 4/6/16
YEAR: 2016
FIELD PERSON#: Amy Manion
PROJECT MANAGER: John Pekala
LABORATORY: Asset Labs
SIGNATURE: Amy Manion

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A)IR; (G)AS; (W)ATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	HOLD *										COMMENTS
BIN1-20160406	4/6/16	1431	N/A	/	S	6	U	ND		X		N019343	- 01							
STOCKPILE 1A-20160406	↓	1410	↓	/	↓	↓	↓	↓		X			- 02							email results to:
STOCKPILE 1B-20160406		1422		/						X			- 03							jpekala@ramboll.com
STOCKPILE 2A-20160406		1340		/						X			- 04							jkane@ "
STOCKPILE 2B-20160406		1357		/						X			- 05							
																AM				
																				* pending instructions from
																				John Pekala/ Jason Kane/
																				Ramboll Environ
TOTAL																				

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
Amy Manion	1502 / 4/6/16	MSCARTIN	4/6/16@1502
	4/6/16@1700	Joanna Rodriguez	4/6/16 16:00

TURNAROUND TIME (CIRCLE ONE): SAME DAY 72 HOURS; 24 HOURS 5 DAYS; 48 HOURS NORMAL

SAMPLE INTEGRITY: INTACT (Y) N TEMP 3.7C — 1.4, 3.7

SAMPLE INTEGRITY: INTACT Y N

ICE RT #2

SWBU Office Locations:
- ☐ 18100 Von Karman Avenue, Suite 600, Irvine, CA 92612 +1 949 261 5151 +1 949 261 6202
- ☐ 707 Wilshire Boulevard, Suite 4950, Los Angeles, CA 90017 +1 213 943 6300 +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701
- ☐ 501 West Broadway, Suite 800, San Diego, CA 92101 +1 619 400 4934

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/6/2016	Workorder:	N019343
Rep sample Temp (Deg C):	1.4/3.8/3.7	IR Gun ID:	2

Temp Blank: ☑ Yes ☐ No

Carrier name: ASSET

Last 4 digits of Tracking No.: NA Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: YR For: 4/8/2016

Reviewed By: 04/11/16

Sample Control LV

From: Marlon B. Cartin <marlon@assetlaboratories.com>
Sent: Thursday, April 07, 2016 11:52 AM
To: 'Jason P. Kane'; 'John Pekala'
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; 'Amy Manion'
Subject: RE: analytical list

Thanks Jason!

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:46 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Yes please. Thanks.

Jason Kane
Senior Associate
D +1 510 420 2547
M +1 949 291 0340
JPKane@ramboll.com

Ramboll Environ
2200 Powell Street
Suite 700
Emeryville, CA 94608
www.ramboll-environ.com

From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 11:38 AM
To: Jason P. Kane <JPKane@ramboll.com>; John Pekala <jpekala@ramboll.com>
Cc: 'Sample Control LV' <samplecontrol.lv@assetlaboratories.com>; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion <AManion@Ramboll.com>
Subject: RE: analytical list

Will do John!

You need standard TAT right?

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:14 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Thanks Marlon.

Sorry, one additional analysis. For the samples on COC #12703 ("BIN1", "STOCKPILE1A", "STOCKPILE1B", "STOCKPILE2A", and "STOCKPILE2B"), please add VOCs by 8260.

Once these are set-up, can you send through a work order confirmation or something I can double-check to make sure you are analyzing everything we need?

Jason Kane
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JPKane@ramboll.com

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From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 11:12 AM
To: Jason P. Kane; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Thanks Jason!

We will process this right away.

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Thursday, April 07, 2016 11:09 AM
To: Marlon B. Cartin; John Pekala
Cc: 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com; Amy Manion
Subject: RE: analytical list

Hi Marlon
The analytical program for our samples submitted yesterday are as follows:

Samples on COC #12702 ("TR-SIDEWALL", "TR-BASE", "SO-SW-NORTH", "SO-SW-SOUTH", "SO-SW-WEST01", "SO-SW-WEST02", "SO-SW-BASE01", and "SO-SW-BASE02":

- SVOCs (including hexachlorobenzene, Benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-Dinitrotoluene, Hexachloroethane, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol) by EPA 8270D.
- PAHs by EPA 8310 or 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.

Samples on COC #12703 ("BIN1", "STOCKPILE1A", "STOCKPILE1B", "STOCKPILE2A", and "STOCKPILE2B"):

- SVOCs (including hexachlorobenzene, benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachloroethane, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol) by EPA 8270D.
- TCLPs for the following SVOC compounds: o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachlorobenzene, hexachloroethane, nitrobenzene, pentachlorophenol, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol by EPA 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- TCLPs for all RCRA 8 metals by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.
- Organochlorine pesticides by EPA 8081A.
- 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.
- Ignitability by EPA 1010.
- Corrosivity by EPA 9045.
- Reactivity by EPA SW 846.
- Cyanide by EPA 9012.
- Sulfide by EPA 9034.
- Sulfate by EPA 300.

Please let me know if you have any questions or concerns.

Thanks

Jason Kane
Senior Associate
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M +1 949 291 0340
JPKane@ramboll.com

Ramboll Environ
2200 Powell Street
Suite 700
Emeryville, CA 94608
www.ramboll-environ.com

From: Marlon B. Cartin [mailto:marlon@assetlaboratories.com]
Sent: Thursday, April 07, 2016 9:06 AM
To: John Pekala
Cc: Jason P. Kane; 'Sample Control LV'; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com
Subject: RE: analytical list

Thank you John!

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: John Pekala [mailto:jpekala@ramboll.com]
Sent: Wednesday, April 06, 2016 5:23 PM
To: Marlon B. Cartin
Cc: Jason P. Kane; Sample Control LV; hanah.glodoviza@assetlaboratories.com; yoandra@assetlaboratories.com
Subject: Re: analytical list

We should know tomorrow afternoon.

John

On Apr 6, 2016, at 4:41 PM, Marlon B. Cartin <marlon@assetlaboratories.com> wrote:

> Hi Jason/John,
>
> Please see attached COC of samples we got this afternoon. Samples are all on-hold for now pending confirmation from you guys.
> Please let me know of the tests you want to proceed once you finalized it.
>
> Thank you so much for considering us on this project. We apprecaiate the busniess.
>
> **Marlon B. Cartin**
> Project Manager
> Nevada: 3151 W. Post Road, Las Vegas, NV 89118
> **P:** 702.307.2659 Ext. 410 | **F:** 702.307.2691 | **M:** 702.439.0421

From: Jason P. Kane [mailto:JPKane@ramboll.com]
Sent: Wednesday, April 06, 2016 8:38 AM
To: marlon@assetlaboratories.com
Subject: analytical list

Stockpile Characterization Sampling

- SVOCs (including hexachlorobenzene, benzo(a)pyrene, o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachloroethane, pentachlorophenol, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol) by EPA 8270D.
- TCLPs for the following SVOC compounds: o-cresol, m-cresol, p-cresol, total cresol, 2,4-dinitrotoluene, hexachlorobenzene, hexachloroethane, nitrobenzene, pentachlorophenol, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol by EPA 8270D.
- TPH (g, d, mo) by EPA 8015.
- Perchlorate by EPA 314.0 or 6850.
- PCBs by EPA 8082.
- Dioxins and furans by EPA 8290.
- Metals (all RCRA 8 plus magnesium, manganese, platinum, and titanium) by EPA 6010 or 6020.
- TCLPs for all RCRA 8 metals by EPA 6010 or 6020.
- Hexavalent Chromium by EPA 7199.
- Organochlorine pesticides by EPA 8081A.
- 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.
- Ignitability by EPA 1010.
- Corrosivity by EPA 9045.
- Reactivity by EPA SW 846.
- Cyanide by EPA 9012.
- Sulfide by EPA 9034.
- Sulfate by EPA 300.

Jason Kane
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M +1 949 291 0340
JPKane@ramboll.com

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<SKMBT_60116040616140.pdf>

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ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-001A	BIN1-20160406	4/6/2016 2:31:00 PM	4/13/2016	Soil	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-001B			4/13/2016		EPA 1311	8270 TCLP Sample Prep (Organics)	☐	☐	☐	WS
			4/13/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 1311/ 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-001C			4/13/2016		EPA 1311	TCLP Sample Prep (Metals)	☐	☐	☐	AM
			4/13/2016		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	AM

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-001C	BIN1-20160406	4/6/2016 2:31:00 PM	4/13/2016	Soil		MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 7470A	MERCURY BY TCLP EXTRACTION	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019343-001D			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019343-001E			4/13/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
			4/13/2016		EPA 9045C	pH	☐	☐	☐	JJS
N019343-001F			4/13/2016		EPA 8151	Chlorinated Herbicides by GC	☐	☐	☑	SUB
N019343-001G			4/13/2016		EPA 9014, Ch 7	CYANIDE, REACTIVE	☐	☐	☑	SUB
			4/13/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B, Ch 7	SULFIDE, REACTIVE	☐	☐	☑	SUB
N019343-001H			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019343-001I			4/13/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019343-002A	STOCKPILE1A-20160406	4/6/2016 2:10:00 PM	4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-002B			4/13/2016		EPA 1311	8270 TCLP Sample Prep (Organics)	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-002B	STOCKPILE1A-20160406	4/6/2016 2:10:00 PM	4/13/2016	Soil	EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 1311/ 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-002C			4/13/2016		EPA 1311	TCLP Sample Prep (Metals)	☐	☐	☐	AM
			4/13/2016		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 7470A	MERCURY BY TCLP EXTRACTION	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-002C	STOCKPILE1A-20160406	4/6/2016 2:10:00 PM	4/13/2016	Soil	EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019343-002D			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019343-002E			4/13/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
			4/13/2016		EPA 9045C	pH	☐	☐	☐	JJS
N019343-002F			4/13/2016		EPA 8151	Chlorinated Herbicides by GC	☐	☐	☑	SUB
N019343-002G			4/13/2016		EPA 9014, Ch 7	CYANIDE, REACTIVE	☐	☐	☑	SUB
			4/13/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B, Ch 7	SULFIDE, REACTIVE	☐	☐	☑	SUB
N019343-002H			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019343-002I			4/13/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019343-003A	STOCKPILE1B-20160406	4/6/2016 2:22:00 PM	4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-003B			4/13/2016		EPA 1311	8270 TCLP Sample Prep (Organics)	☐	☐	☐	WS
			4/13/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-003B	STOCKPILE1B-20160406	4/6/2016 2:22:00 PM	4/13/2016	Soil	EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 1311/ 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-003C			4/13/2016		EPA 1311	TCLP Sample Prep (Metals)	☐	☐	☐	AM
			4/13/2016		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 7470A	MERCURY BY TCLP EXTRACTION	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019343-003D			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019343-003E			4/13/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	JJS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-003E	STOCKPILE1B-20160406	4/6/2016 2:22:00 PM	4/13/2016	Soil	EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
			4/13/2016		EPA 9045C	pH	☐	☐	☐	JJS
N019343-003F			4/13/2016		EPA 8151	Chlorinated Herbicides by GC	☐	☐	☑	SUB
N019343-003G			4/13/2016		EPA 9014, Ch 7	CYANIDE, REACTIVE	☐	☐	☑	SUB
			4/13/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B, Ch 7	SULFIDE, REACTIVE	☐	☐	☑	SUB
N019343-003H			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019343-003I			4/13/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019343-004A	STOCKPILE2A-20160406	4/6/2016 1:40:00 PM	4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-004B			4/13/2016		EPA 1311	8270 TCLP Sample Prep (Organics)	☐	☐	☐	WS
			4/13/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-004B	STOCKPILE2A-20160406	4/6/2016 1:40:00 PM	4/13/2016	Soil	EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 1311/ 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION	☐	☐	☐	WS
			4/13/2016		EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-004C			4/13/2016		EPA 1311	TCLP Sample Prep (Metals)	☐	☐	☐	AM
			4/13/2016		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 7470A	MERCURY BY TCLP EXTRACTION	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019343-004D			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019343-004E			4/13/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-004E	STOCKPILE2A-20160406	4/6/2016 1:40:00 PM	4/13/2016	Soil	EPA 9045C	pH	☐	☐	☐	JJS
N019343-004F			4/13/2016		EPA 8151	Chlorinated Herbicides by GC	☐	☐	☑	SUB
N019343-004G			4/13/2016		EPA 9014, Ch 7	CYANIDE, REACTIVE	☐	☐	☑	SUB
			4/13/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B, Ch 7	SULFIDE, REACTIVE	☐	☐	☑	SUB
N019343-004H			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019343-004I			4/13/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019343-005A	STOCKPILE2B-20160406	4/6/2016 1:57:00 PM	4/13/2016		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-005B			4/13/2016		EPA 1311	8270 TCLP Sample Prep (Organics)	☐	☐	☐	WS
			4/13/2016		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 3546	Microwave Extraction	☐	☐	☐	WS
			4/13/2016		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	☐	☐	☐	WS
			4/13/2016		EPA 8081A	ORGANOCHLORINE PESTICIDES BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 8082	PCBs BY GC/ECD	☐	☐	☐	WS
			4/13/2016		EPA 1311/ 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY TCLP EXTRACTION	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-005B	STOCKPILE2B-20160406	4/6/2016 1:57:00 PM	4/13/2016	Soil	EPA 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	☐	☐	☐	WS
N019343-005C			4/13/2016		EPA 1311	TCLP Sample Prep (Metals)	☐	☐	☐	AM
			4/13/2016		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 1311/ 7470A	MERCURY BY TCLP EXTRACTION	☐	☐	☐	AM
			4/13/2016			MERCURY PREP	☐	☐	☐	AM
			4/13/2016		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	☐	☐	☐	AM
N019343-005D			4/13/2016		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☑	SUB
N019343-005E			4/13/2016		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 3060A	Prep for Hexavalend Chromium	☐	☐	☐	JJS
			4/13/2016		EPA 314(M)	PERCHLORATE BY ION CHROMATOGRAPHY	☐	☐	☐	JJS
			4/13/2016		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	JJS
			4/13/2016		EPA 9045C	pH	☐	☐	☐	JJS
N019343-005F			4/13/2016		EPA 8151	Chlorinated Herbicides by GC	☐	☐	☑	SUB
N019343-005G			4/13/2016		EPA 9014, Ch 7	CYANIDE, REACTIVE	☐	☐	☑	SUB
			4/13/2016		EPA 9014	CYANIDE, TOTAL	☐	☐	☑	SUB

ASSET Laboratories

WORK ORDER Summary

08-Apr-16

WorkOrder: N019343

Client ID: RAMEN01

Project: NERT, 2138800A, F07 **QC Level:** RTNE **Date Received:** 4/6/2016

Comments: email results to: jpekala@ramboll.com; jkane@ramboll.com. *pending instructions from John Pekala/Jason Kane/Ramboll Environ

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N019343-005G	STOCKPILE2B-20160406	4/6/2016 1:57:00 PM	4/13/2016	Soil	EPA 9030B	SULFIDE, TOTAL	☐	☐	☑	SUB
			4/13/2016		EPA 9030B, Ch 7	SULFIDE, REACTIVE	☐	☐	☑	SUB
N019343-005H			4/13/2016		EPA 8290	Dioxins and Dibenzofurans	☐	☐	☑	SUB
N019343-005I			4/13/2016		EPA 1030	IGNITABILITY OF SOLIDS	☐	☐	☑	SUB
N019343-006A	FOLDER		4/13/2016		Folder	Folder	☐	☐	☐	LAB

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612) 607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 8290		
N019343-001H / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4OZG	1		
N019343-002H / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4OZG	1		
N019343-003H / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4OZG	1		
N019343-004H / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4OZG	1		
N019343-005H / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

FEDEX # 7700 6729 5135

	Date/Time		Date/Time
Relinquished by: Yoanda Rodriguez	4/7/16 16:00	Received by:	
Relinquished by:		Received by:	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Accutest Laboratories
4405 Vineland Rd.
Orlando, FL 32811

TEL: (407) 425-6700
FAX: (407) 425-0707
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 8151		
N019343-001F / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	8OZG	1		
N019343-002F / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	8OZG	1		
N019343-003F / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	8OZG	1		
N019343-004F / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	8OZG	1		
N019343-005F / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	8OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.

Fedex #: 776067348577

		Date/Time		Date/Time
Relinquished by:	Yeandra Rodriguez	4/7/16 16:00	Received by:	
Relinquished by:			Received by:	

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:
GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ~~EPA 9014, Ch 7~~ EPA 9012	Requested Tests: ~~EPA 9030B, Ch 7~~ EPA 9034	
N019343-001G / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	8OZG	1	1	
N019343-002G / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	8OZG	1	1	
N019343-003G / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	8OZG	1	1	
N019343-004G / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	8OZG	1	1	
N019343-005G / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	8OZG	1	1	

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343C . Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Total Reactive Cyanide by EPA 9012 and Total Reactive Sulfide by EPA 9034

Fedex #: 776067397255

		Date/Time			Date/Time
Relinquished by:	Joanbow Rodriguez	4/7/16 16:00	Received by:		
Relinquished by:			Received by:		

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

ALS Global
4977 Energy Way
Reno, NV 89502-4105

TEL: +1 775 356 5395
FAX:
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 6010B		
N019343-001D / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	2OZG	1		
N019343-002D / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	2OZG	1		
N019343-003D / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	2OZG	1		
N019343-004D / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	2OZG	1		
N019343-005D / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	2OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343D Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Platinum by EPA 6010.

GSO #: 531515431

		Date/Time			Date/Time
Relinquished by:	Yeandra Rodriguez	4/7/16 12:00	**Received by:**		
Relinquished by:			**Received by:**		

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Enthalpy Analytical
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				~~EPA 1030~~ EPA 1010		
N019343-001I / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4OZG	1		
N019343-002I / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4OZG	1		
N019343-003I / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4OZG	1		
N019343-004I / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4OZG	1		
N019343-005I / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343E Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Ignitability by EPA 1010.

GSO # 5313515295

		Date/Time			Date/Time
Relinquished by:	Yoandra Rodriguez	4/7/16 17:00	**Received by:**		
Relinquished by:			**Received by:**		

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Asset Laboratories
Address: 3151-3153 W. Post Road
Las Vegas, NV 89118

Attn: Marlon Cartin

Comments: P.O. #: N19343E

Lab Request: 368194
Report Date: 04/15/2016
Date Received: 04/08/2016
Client ID: 12257

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
368194-001	N019343-001I / BIN 1-20160406
368194-002	N019343-002I / Stockpile1A-20160406
368194-003	N019343-003I / Stockpile1B-20160406
368194-004	N019343-004I / Stockpile2A-20160406
368194-005	N019343-005I / Stockpile2B-20160406

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Winston Yu

Report Review performed by: Winston Yu, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	04/06/2016 14:31	**Site:**			
Sample #:	**368194-001**	**Client Sample #:**	N019343-001I / BIN 1-20160406	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method					QCBatchID: QC1165504		
Ignitability	**pass**	1		mm/sec	04/08/16	04/08/16	WW	

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	04/06/2016 14:10	**Site:**			
Sample #:	**368194-002**	**Client Sample #:**	N019343-002I / Stockpile1A-2016040	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method					QCBatchID: QC1165504		
Ignitability	**psaa**	1		mm/sec	04/08/16	04/08/16	WW	

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	04/06/2016 14:22	**Site:**			
Sample #:	**368194-003**	**Client Sample #:**	N019343-003I / Stockpile1B-2016040	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method					QCBatchID: QC1165504		
Ignitability	**pass**	1		mm/sec	04/08/16	04/08/16	WW	

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	04/06/2016 13:40	**Site:**			
Sample #:	**368194-004**	**Client Sample #:**	N019343-004I / Stockpile2A-2016040	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method					QCBatchID: QC1165504		
Ignitability	**pass**	1		mm/sec	04/08/16	04/08/16	WW	

Matrix:	Solid	**Client:**	Asset Laboratories	**Collector:**	Client
Sampled:	04/06/2016 13:57	**Site:**			
Sample #:	**368194-005**	**Client Sample #:**	N019343-005I / Stockpile2B-2016040	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 1030 *NELAC*	Prep Method: Method					QCBatchID: QC1165504		
Ignitability	**pass**	1		mm/sec	04/08/16	04/08/16	WW	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

368194

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Enthalpy Analytical
806 N. Batavia
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: ~~EPA 1030~~ EPA 1010		
N019343-001I / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4OZG	1		
N019343-002I / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4OZG	1		
N019343-003I / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4OZG	1		
N019343-004I / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4OZG	1		
N019343-005I / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343E Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Ignitability by EPA 1010.

GSO# 5315315295

		Date/Time			Date/Time
Relinquished by:	Yoondaw Rodriguez	4/7/16 17:00	**Received by:**		4/8/16 9:45
Relinquished by:			**Received by:**		

ENTHALPY analytical, inc

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Asset Labs Project: _____

Date Received: 4/8/16 Sampler's Signature Present: (Yes) No

Sample temperature: _____

Sample(s) received in cooler: (Yes) No (Skip Section 2)

Shipping Information: GSO

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ✓ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other _____

Cooler 1 Temperature: 3.8 Cooler 2 Temperature: _____ Cooler 3 Temperature: _____

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments

Section 5

Was the Project Manager notified via email of discrepancies: Y / N (N/A)

Project Manager's response: _____

Completed By: _____ Date: 4/7/16

GSO
GOLDEN STATE OVERNIGHT

800-322-5555 www.gso.com

Ship From
ADVANCED TECHNOLOGY LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
806 N. BATAVIA
ORANGE, CA 92868

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 531515295

PDS

ORC D

ORANGE

D92865A

50379273

Print Date: 4/7/2016 4:18 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

Winston Yu

From: Marlon B. Cartin <marlon@assetlaboratories.com>
Sent: Friday, April 08, 2016 1:40 PM
To: Winston Yu
Subject: RE: N19343E Ignitability

Follow Up Flag: Follow up
Flag Status: Flagged

Please proceed by 1030.

Thanks,

Marlon B. Cartin
Project Manager
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 Ext. 410 **I** **F:** 702.307.2691 **I** **M:** 702.439.0421

From: Winston Yu [mailto:winston.yu@enthalpy.com]
Sent: Friday, April 08, 2016 1:30 PM
To: marlon@assetlaboratories.com
Subject: N19343E Ignitability

Hi Marlon,

The matrix for these samples is solid and therefore we cannot run EPA 1010. Would you like us to proceed via EPA 1030?

Please advise. Thanks.

Best Regards,

Winston Yu

Winston Yu
Project Manager
Enthalpy Analytical (Formerly Associated Labs)
806 N Batavia Street, Orange, CA 92868
T: 714.771.6900 I D: 714.771.9923 I F: 714.771.9933
winston.yu@enthalpy.com
www.enthalpy.com/socal

e-Hardcopy 2.0
Automated Report

Technical Report for

Asset Laboratories

N019343

PO N19343

SGS Accutest Job Number: FA33015

Sampling Date: 04/06/16

Report to:

Asset Laboratories

marlon@atl-labs.com

ATTN: Marlon Cartin

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

May 6, 2016

Mr. Marlon Cartin
Asset Laboratories
3151 W. Post Rd
Las Vegas, NV 89118

RE: Accutest job FA33015 Reissue

Dear Mr. Cartin,

The final report for job number FA33015 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

2,4,5-T has been reported.

SGS Accutest apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS Accutest - Orlando

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Asset Laboratories

Job No: FA33015

N019343
Project No: PO N19343

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA33015-1	04/06/16	14:31	ATL	04/11/16	SO	Soil	N019343-001F/BIN1-20160406
FA33015-2	04/06/16	14:10	ATL	04/11/16	SO	Soil	N019343-002F/STOCKPILE1A-20160406
FA33015-3	04/06/16	14:22	ATL	04/11/16	SO	Soil	N019343-003F/STOCKPILE1B-20160406
FA33015-4	04/06/16	13:40	ATL	04/11/16	SO	Soil	N019343-004F/STOCKPILE2A-20160406
FA33015-5	04/06/16	13:57	ATL	04/11/16	SO	Soil	N019343-005F/STOCKPILE2B-20160406

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA33015
Account: Asset Laboratories
Project: N019343
Collected: 04/06/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA33015-1	**N019343-001F/BIN1-20160406**					
No hits reported in this sample.						
FA33015-2	**N019343-002F/STOCKPILE1A-20160406**					
No hits reported in this sample.						
FA33015-3	**N019343-003F/STOCKPILE1B-20160406**					
No hits reported in this sample.						
FA33015-4	**N019343-004F/STOCKPILE2A-20160406**					
2,4,5-T [a]		80.1	37	14	ug/kg	SW846 8151A
FA33015-5	**N019343-005F/STOCKPILE2B-20160406**					
2,4,5-T [b]		183	36	14	ug/kg	SW846 8151A

(a) All hits confirmed by dual column analysis.
(b) All hits confirmed by dual column analysis. Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	N019343-001F/BIN1-20160406		
Lab Sample ID:	FA33015-1	**Date Sampled:**	04/06/16
Matrix:	SO - Soil	**Date Received:**	04/11/16
Method:	SW846 8151A SW846 3546	**Percent Solids:**	98.3
Project:	N019343		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC050358.D	1	04/15/16	FS	04/14/16	OP60086	GCC966
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	35	8.7	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.5	1.2	ug/kg	
93-76-5	2,4,5-T	ND	3.5	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	52%		31-132%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	N019343-002F/STOCKPILE1A-20160406		
Lab Sample ID:	FA33015-2	**Date Sampled:**	04/06/16
Matrix:	SO - Soil	**Date Received:**	04/11/16
Method:	SW846 8151A SW846 3546	**Percent Solids:**	94.3
Project:	N019343		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC050359.D	1	04/15/16	FS	04/14/16	OP60086	GCC966
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	36	9.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.6	1.2	ug/kg	
93-76-5	2,4,5-T	ND	3.6	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	45%		31-132%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	N019343-003F/STOCKPILE1B-20160406		
Lab Sample ID:	FA33015-3	**Date Sampled:**	04/06/16
Matrix:	SO - Soil	**Date Received:**	04/11/16
Method:	SW846 8151A SW846 3546	**Percent Solids:**	86.0
Project:	N019343		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CC050400.D	4	04/19/16	FS	04/14/16	OP60086	GCC968
Run #2 [b]	CC050469.D	4	04/26/16	FS	04/25/16	OP60188	GCC971

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.3 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	160	39	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	16	5.2	ug/kg	
93-76-5	2,4,5-T	ND	16	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	9% [c]	26%	31-132%

(a) Dilution required due to matrix interference.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	N019343-004F/STOCKPILE2A-20160406		
Lab Sample ID:	FA33015-4	**Date Sampled:**	04/06/16
Matrix:	SO - Soil	**Date Received:**	04/11/16
Method:	SW846 8151A SW846 3546	**Percent Solids:**	92.0
Project:	N019343		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CC050376.D	10	04/18/16	FS	04/14/16	OP60086	GCC967
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	370	92	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	37	12	ug/kg	
93-76-5	2,4,5-T	80.1	37	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	0% [b]		31-132%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	N019343-005F/STOCKPILE2B-20160406		
Lab Sample ID:	FA33015-5	**Date Sampled:**	04/06/16
Matrix:	SO - Soil	**Date Received:**	04/11/16
Method:	SW846 8151A SW846 3546	**Percent Solids:**	90.3
Project:	N019343		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CC050377.D	10	04/18/16	FS	04/14/16	OP60086	GCC967
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	360	90	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	36	12	ug/kg	
93-76-5	2,4,5-T [b]	183	36	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	0% [c]		31-132%

(a) All hits confirmed by dual column analysis.
(b) Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.
(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

FA33015

QC Level: RTNE

Subcontractor:
Accutest Laboratories
4405 Vineland Rd.
Orlando, FL 32811

TEL: (407) 425-6700
FAX: (407) 425-0707
Acct #:

Field Sampler: Amy Manion

07-Apr-16

	Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
					EPA 8151		
1	N019343-001F / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	8OZG	1		
2	N019343-002F / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	8OZG	1		
3	N019343-003F / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	8OZG	1		
4	N019343-004F / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	8OZG	1		
5	N019343-005F / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	8OZG	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343B Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for 2,4-Dichlorophenoxyacetic acid and 2,4,5-TP (Silvex) by EPA 8151.

Fedex #: 776067348577

		Date/Time			Date/Time
Relinquished by:	Yoandra Rodriguez FX	4/7/16 16:00	Received by:	FX	
Relinquished by:			Received by:	J. Cornel (ATL)	4-11-16 09:00

3.8

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33015 CLIENT: ATL PROJECT: PO# N193438

DATE/TIME RECEIVED: 4-11-16 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7760 6734 8577

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.8 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 4-11-16 REVIEWER SIGNATURE/DATE: 4/11/16

NF 11/15 RECEIPTLOG040416.xls

ORIGIN ID:LASA (702) 307-3245
MARLON CARTIN
ATL DBA ASSET LABORATORIES
3151 W. POST RD.

LAS VEGAS, NV 89118
UNITED STATES US

SHIP DATE: 07APR16
ACTWGT: 5.00 LB
CAD: 102391801/INET3730
DIMS: 24x14x15 IN

BILL SENDER

TO SAMPLE RECEIVING
ACCUTEST LABORATORIES
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700 REF:
INV:
PO: DEPT:

540J1101/2722/F

FedEx Express

FRI - 08 APR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7760 6734 8577

XH TIXA

32811
FL-US MCO

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

4.1
4

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA33015
Account: ATLNVLV Asset Laboratories
Project: N019343

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP60086-MB	CC050356.D	1	04/15/16	FS	04/14/16	OP60086	GCC966

The QC reported here applies to the following samples: **Method:** SW846 8151A

FA33015-1, FA33015-2, FA33015-3, FA33015-4, FA33015-5

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	33	8.3	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.3	1.1	ug/kg	
93-76-5	2,4,5-T	ND	3.3	1.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
19719-28-9	2,4-DCAA	65%	31-132%

Blank Spike Summary

Job Number: FA33015
Account: ATLNVLV Asset Laboratories
Project: N019343

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP60086-BS	CC050357.D	1	04/15/16	FS	04/14/16	OP60086	GCC966

The QC reported here applies to the following samples: **Method:** SW846 8151A

FA33015-1, FA33015-2, FA33015-3, FA33015-4, FA33015-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
94-75-7	2,4-D	167	132	79	43-124
93-72-1	2,4,5-TP (Silvex)	16.7	7.8	47	41-130
93-76-5	2,4,5-T	16.7	10.7	64	40-124

CAS No.	Surrogate Recoveries	BSP	Limits
19719-28-9	2,4-DCAA	76%	31-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33015
Account: ATLNVLV Asset Laboratories
Project: N019343

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP60086-MS	CC050360.D	1	04/15/16	FS	04/14/16	OP60086	GCC966
OP60086-MSD	CC050361.D	1	04/15/16	FS	04/14/16	OP60086	GCC966
FA33015-2	CC050359.D	1	04/15/16	FS	04/14/16	OP60086	GCC966

The QC reported here applies to the following samples: **Method:** SW846 8151A

FA33015-1, FA33015-2, FA33015-3, FA33015-4, FA33015-5

CAS No.	Compound	FA33015-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	ND		177	80.6	46	176	81.3	46	1	43-124/32
93-72-1	2,4,5-TP (Silvex)	ND		17.7	9.7	55	17.6	7.4	42	27	41-130/31
93-76-5	2,4,5-T	ND		17.7	14.3	81	17.6	5.9	34*	2	40-124/35

CAS No.	Surrogate Recoveries	MS	MSD	FA33015-2	Limits
19719-28-9	2,4-DCAA	53%	43%	45%	31-132%

* = Outside of Control Limits.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

April 20, 2016

Marlon Cartin
ASSET Laboratories
3151 W Post Rd
Las Vegas, Nevada 89118

Re: Routine Analytical
Work Order: 394884

Dear Marlon Cartin:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 08, 2016. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4707.

Sincerely,

Linda Pullano for
Anna Day
Project Manager

Purchase Order: N19343C
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

ADTL001 ASSET Laboratories

Client SDG: 394884 GEL Work Order: 394884

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

< Result is less than value reported

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Anna Day.

Reviewed by Linda O. Pullens

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 20, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019343-001G/BIN1-20160406
Sample ID: 394884001
Matrix: Soil
Collect Date: 06-APR-16 14:31
Receive Date: 08-APR-16
Collector: Client
Moisture: 2.42%

Project: ADTL00112
Client ID: ADTL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW 7.3.3 Reactivity, Releasable "Dry Weight Corrected"											
Reactive Releasable Cyanide	<	250000		250000	ug/kg	1	AXH3	04/11/16	1348	1558641	1
Titration and Ion Analysis											
Reactive Sulfide SW846 Chapter 7.3.4 "Dry Weight Corrected"											
Reactive Releasable Sulfide	<	500		500	mg/kg		AMB	04/13/16	1517	1559311	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7.3.3 Prep	SW 7.3.3 Reactivity, Releasable Cyanide	AXH3	04/11/16	1057	1558640

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7.3.3	
2	SW846 Chpt. 7.3.4-TIT	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 20, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019343-002G/STOCKPILE1A-20160406
Project: ADTL00112
Sample ID: 394884002
Client ID: ADTL001
Matrix: Soil
Collect Date: 06-APR-16 14:10
Receive Date: 08-APR-16
Collector: Client
Moisture: 7.32%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW 7.3.3 Reactivity, Releasable "Dry Weight Corrected"											
Reactive Releasable Cyanide	<	250000		250000	ug/kg	1	AXH3	04/11/16	1350	1558641	1
Titration and Ion Analysis											
Reactive Sulfide SW846 Chapter 7.3.4 "Dry Weight Corrected"											
Reactive Releasable Sulfide	<	500		500	mg/kg		AMB	04/13/16	1526	1559311	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7.3.3 Prep	SW 7.3.3 Reactivity, Releasable Cyanide	AXH3	04/11/16	1057	1558640

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7.3.3	
2	SW846 Chpt. 7.3.4-TIT	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 20, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019343-003G/STOCKPILE1B-20160406
Project: ADTL00112
Sample ID: 394884003
Client ID: ADTL001
Matrix: Soil
Collect Date: 06-APR-16 14:22
Receive Date: 08-APR-16
Collector: Client
Moisture: 15.9%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW 7.3.3 Reactivity, Releasable "Dry Weight Corrected"											
Reactive Releasable Cyanide	<	250000		250000	ug/kg	1	AXH3	04/11/16	1351	1558641	1
Titration and Ion Analysis											
Reactive Sulfide SW846 Chapter 7.3.4 "Dry Weight Corrected"											
Reactive Releasable Sulfide	<	500		500	mg/kg		AMB	04/13/16	1532	1559311	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7.3.3 Prep	SW 7.3.3 Reactivity, Releasable Cyanide	AXH3	04/11/16	1057	1558640

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7.3.3	
2	SW846 Chpt. 7.3.4-TIT	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 20, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019343-004G/STOCKPILE2A-20160406
Project: ADTL00112
Sample ID: 394884004
Client ID: ADTL001
Matrix: Soil
Collect Date: 06-APR-16 13:40
Receive Date: 08-APR-16
Collector: Client
Moisture: 7.98%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW 7.3.3 Reactivity, Releasable "Dry Weight Corrected"											
Reactive Releasable Cyanide	<	250000		250000	ug/kg	10	AXH3	04/11/16	1401	1558641	1
Titration and Ion Analysis											
Reactive Sulfide SW846 Chapter 7.3.4 "Dry Weight Corrected"											
Reactive Releasable Sulfide	<	500		500	mg/kg		AMB	04/13/16	1537	1559311	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7.3.3 Prep	SW 7.3.3 Reactivity, Releasable Cyanide	AXH3	04/11/16	1057	1558640

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7.3.3	
2	SW846 Chpt. 7.3.4-TIT	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 20, 2016

Company : ASSET Laboratories
Address : 3151 W Post Rd

Las Vegas, Nevada 89118
Contact: Marlon Cartin
Project: Routine Analytical

Client Sample ID: N019343-005G/STOCKPILE2B-20160406
Project: ADTL00112
Sample ID: 394884005
Client ID: ADTL001
Matrix: Soil
Collect Date: 06-APR-16 13:57
Receive Date: 08-APR-16
Collector: Client
Moisture: 11.6%

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW 7.3.3 Reactivity, Releasable "Dry Weight Corrected"											
Reactive Releasable Cyanide	<	250000		250000	ug/kg	1	AXH3	04/11/16	1353	1558641	1
Titration and Ion Analysis											
Reactive Sulfide SW846 Chapter 7.3.4 "Dry Weight Corrected"											
Reactive Releasable Sulfide	<	500		500	mg/kg		AMB	04/13/16	1545	1559311	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7.3.3 Prep	SW 7.3.3 Reactivity, Releasable Cyanide	AXH3	04/11/16	1057	1558640

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7.3.3	
2	SW846 Chpt. 7.3.4-TIT	

Notes:

QC Summary

Report Date: April 20, 2016

ASSET Laboratories
3151 W Post Rd
Las Vegas, Nevada

Contact: **Marlon Cartin**

Workorder: **394884**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Flow Injection Analysis													
Batch 1558641													
QC1203525040 394884001 DUP													
Reactive Releasable Cyanide		<	250000	<	250000	ug/kg	17.8	^		(+/-250000)	AXH3	04/11/16	13:49
QC1203525039 LCS													
Reactive Releasable Cyanide	1000000			<	250000	ug/kg			21.9	(0%-63%)		04/11/16	13:47
QC1203525038 MB													
Reactive Releasable Cyanide				<	250000	ug/kg						04/11/16	13:46
Titration and Ion Analysis													
Batch 1559311													
QC1203526830 394884001 DUP													
Reactive Releasable Sulfide		<	500	<	500	mg/kg	200	^		(+/-500)	AMB	04/13/16	15:22
QC1203526829 LCS													
Reactive Releasable Sulfide	268			<	500	mg/kg			156	(57%-159%)		04/13/16	15:16
QC1203526828 MB													
Reactive Releasable Sulfide				<	500	mg/kg						04/13/16	15:15

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FA Failed analysis.
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.

QC Summary

Workorder: **394884**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

3948B4

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

GEL Laboratories
2040 Savage Road
Charleston, SC 29407

TEL: (843) 556-8171
FAX:
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				~~EPA 9014, Ch 7~~ EPA 9012	~~EPA 9030B, Ch 7~~ EPA 9034	
N019343-001G / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	8OZG	1	1	
N019343-002G / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	8OZG	1	1	
N019343-003G / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	8OZG	1	1	
N019343-004G / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	8OZG	1	1	
N019343-005G / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	8OZG	1	1	

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343C Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Total Reactive Cyanide by EPA 9012 and Total Reactive Sulfide by EPA 9034

Fedex #: 776067397255

		Date/Time			Date/Time
Relinquished by:	Joantra Rodriguez	4/7/16 16:00	**Received by:**		
Relinquished by:			**Received by:**		4/8/16 0915

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: ADTL	**SDG/AR/COC/Work Order:** 394884
Received By: Sara Gilbert	**Date Received:** 9/8/16

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Ice bags) Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 3°C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 130462966
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	Do Low Level Perchlorate samples have headspace as required?		✓		Sample ID's and containers affected:
7	VOA vials contain acid preservation?		✓		(If unknown, select No)
8	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
9	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
10	Samples received within holding time?	✓			ID's and tests affected:
11	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
12	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
13	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
14	Are sample containers identifiable as GEL provided?			✓	
15	COC form is properly signed in relinquished/received sections?	✓			
16	Carrier and tracking number.				Circle Applicable: (FedEx Air) FedEx Ground UPS Field Services Courier Other 7760 6739 7255

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials ## Date 090816 Page 1 of 1

GL-CHL-SR-001 Rev 3

List of current GEL Certifications as of 20 April 2016

State	Certification
Alaska	UST−0110
Arkansas	88−0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH−0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330−15−00283, P330−15−00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C−SC−01
Kansas NELAP	E−10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA160006
Maryland	270
Massachusetts	M−SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE−OS−26−13
Nevada	SC000122016−1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R−158
Oklahoma	9904
Pennsylvania NELAP	68−00485
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235−16−11
Utah NELAP	SC000122016−20
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
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Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Marlon Cartin
Asset Laboratories
3151 West Post Road
Las Vegas NV 89118

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10344156
Sample Receipt Date: 04/08/2016
Client Project #: N019343
Client Sub PO #: N19343A
State Cert #: MN_00064_2000_72

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

April 22, 2016

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
April 22, 2016

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on five samples submitted by a representative of Asset Laboratories. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 59-105%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In one case, an incorrect isotope ratio was obtained for a PCDD congener; the affected value was flagged "I" on the results table. Concentrations above the calibration range were flagged "E" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. This indicates that the sample preparation procedures did not significantly impact the results reported for the field samples.

A laboratory spike sample was also prepared using clean sand that had been fortified with native standard materials. The recoveries of the native compounds ranged from 107-130%. These results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q
Minnesota	027-053-137		

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

ASSET Laboratories
3151-3153 W Post Rd., Las Vegas, NV 89118
www.atl-labs.com
TEL: 7023072659 *FAX: 7023072691*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

10344156

Subcontractor:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414

TEL: (612).607-1700
FAX: (612) 607-6444
Acct #:

Field Sampler: Amy Manion

07-Apr-16

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests: EPA 8290		
N019343-001H / BIN1-20160406	Soil	4/6/2016 2:31:00 PM	4OZG	1		001
N019343-002H / STOCKPILE1A-20160406	Soil	4/6/2016 2:10:00 PM	4OZG	1		002
N019343-003H / STOCKPILE1B-20160406	Soil	4/6/2016 2:22:00 PM	4OZG	1		003
N019343-004H / STOCKPILE2A-20160406	Soil	4/6/2016 1:40:00 PM	4OZG	1		004
N019343-005H / STOCKPILE2B-20160406	Soil	4/6/2016 1:57:00 PM	4OZG	1		005

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: N19343A Please email Invoices and Account Receivable Statements to AssetAP@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: 5-day TAT.

Please analyze for Dioxins/Furans by EPA 8290.

FEDEX # 7760 6729 5135

		Date/Time			Date/Time
Relinquished by:	Yoandra Rodriguez	4/7/16 16:00	Received by:		4/8/16 930 T:D.9
Relinquished by:			Received by:		

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 05Jan2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.15**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Asset Laboratories

Project #: WO#: 10344156

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7760 6729 5153

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other: 6 am rolls **Temp Blank?** ☐ Yes ☒ No

Thermometer Used: ☐ 151401163 ☐ 151401164 ☐ 888A912167504 ☒ 888A0143310098 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.0 **Cooler Temp Corrected (°C):** 0.9 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** DW 4/8/16

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☒ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Joanne Richardson **Date:** 4-8-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

REPORT OF LABORATORY ANALYSIS

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019343-001H / BIN1-20160406		
Lab Sample ID	10344156001		
Filename	U160421A_15		
Injected By	CVS		
Total Amount Extracted	12.3 g	Matrix	Soil
% Moisture	2.9	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	04/06/2016 14:31
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160420B_16 & U160421A_16	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/21/2016 16:38

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	39.0	-----	1.0	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	440.0	-----	1.0	2,3,7,8-TCDD-13C	2.00	90
				1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	1.2	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	34.0	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	98
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	56.0	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	34.0	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	510.0	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	31.0	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	61
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	97.0	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	71.0	-----	5.0	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	37.0	-----	5.0			
1,2,3,7,8,9-HxCDF	28.0	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	540.0	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	6.2	-----	5.0			
1,2,3,7,8,9-HxCDD	6.6	-----	5.0			
Total HxCDD	41.0	-----	5.0			
1,2,3,4,6,7,8-HpCDF	230.0	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	91.0	-----	5.0	Equivalence: 54 ng/Kg		
Total HpCDF	470.0	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	26.0	-----	5.0			
Total HpCDD	43.0	-----	5.0			
OCDF	890.0	-----	10.0			
OCDD	72.0	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019343-002H / STOCKPILE1A-20160406		
Lab Sample ID	10344156002		
Filename	U160421B_14		
Injected By	CVS		
Total Amount Extracted	11.5 g	Matrix	Soil
% Moisture	8.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	04/06/2016 14:10
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 04:43

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	49.0	-----	1.0		2,3,7,8-TCDF-13C	2.00	90
Total TCDF	770.0	-----	1.0		2,3,7,8-TCDD-13C	2.00	97
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	-----	1.1	1.0	I	2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	57.0	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	83.0	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	51.0	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	860.0	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	53.0	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	170.0	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	120.0	-----	5.0		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	63.0	-----	5.0				
1,2,3,7,8,9-HxCDF	52.0	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	990.0	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.2	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	100
1,2,3,6,7,8-HxCDD	8.6	-----	5.0				
1,2,3,7,8,9-HxCDD	9.2	-----	5.0				
Total HxCDD	74.0	-----	5.0				
1,2,3,4,6,7,8-HpCDF	500.0	-----	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	190.0	-----	5.0		Equivalence: 88 ng/Kg		
Total HpCDF	990.0	-----	5.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	32.0	-----	5.0				
Total HpCDD	51.0	-----	5.0				
OCDF	1900.0	-----	10.0				
OCDD	46.0	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019343-003H / STOCKPILE1B-20160406		
Lab Sample ID	10344156003		
Filename	U160421B_15		
Injected By	CVS		
Total Amount Extracted	13.3 g	Matrix	Soil
% Moisture	15.6	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	04/06/2016 14:22
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 05:29

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	200.0	-----	1.0		2,3,7,8-TCDF-13C	2.00	91
Total TCDF	3400.0	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	101
					1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	6.0	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	230.0	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	360.0	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	210.0	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	3700.0	-----	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	19.0	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	250.0	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	740.0	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	540.0	-----	5.0		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	270.0	-----	5.0				
1,2,3,7,8,9-HxCDF	230.0	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4300.0	-----	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	16.0	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	99
1,2,3,6,7,8-HxCDD	30.0	-----	5.0				
1,2,3,7,8,9-HxCDD	29.0	-----	5.0				
Total HxCDD	250.0	-----	5.0				
1,2,3,4,6,7,8-HpCDF	2300.0	-----	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	800.0	-----	5.0		Equivalence: 380 ng/Kg		
Total HpCDF	4600.0	-----	5.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	110.0	-----	5.0				
Total HpCDD	180.0	-----	5.0				
OCDF	6300.0	-----	10.0	E			
OCDD	140.0	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019343-004H / STOCKPILE2A-20160406		
Lab Sample ID	10344156004		
Filename	U160421B_16		
Injected By	CVS		
Total Amount Extracted	12.9 g	Matrix	Soil
% Moisture	9.8	Dilution	NA
Dry Weight Extracted	11.6 g	Collected	04/06/2016 13:40
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_01 & U160421B_19	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 06:16

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	650	-----	1.0	E	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	12000	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	96
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	21	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	920	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	1200	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	660	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	13000	-----	5.0	E	1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	75	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	1000	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	2500	-----	5.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1800	-----	5.0		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	860	-----	5.0				
1,2,3,7,8,9-HxCDF	720	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	14000	-----	5.0	E	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	64	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	120	-----	5.0				
1,2,3,7,8,9-HxCDD	120	-----	5.0				
Total HxCDD	1000	-----	5.0				
1,2,3,4,6,7,8-HpCDF	6800	-----	5.0	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2400	-----	5.0		Equivalence: 1200 ng/Kg		
Total HpCDF	14000	-----	5.0	E	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	430	-----	5.0				
Total HpCDD	680	-----	5.0				
OCDF	23000	-----	10.0	E			
OCDD	550	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Asset Laboratories

Client's Sample ID	N019343-005H / STOCKPILE2B-20160406		
Lab Sample ID	10344156005		
Filename	U160422A_08		
Injected By	CVS		
Total Amount Extracted	12.4 g	Matrix	Soil
% Moisture	11.7	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	04/06/2016 13:57
ICAL ID	U160204	Received	04/08/2016 09:30
CCal Filename(s)	U160421B_19 & U160422A_11	Extracted	04/19/2016 21:30
Method Blank ID	BLANK-49933	Analyzed	04/22/2016 13:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	790	-----	1.0	E	2,3,7,8-TCDF-13C	2.00	100
Total TCDF	13000	-----	1.0	E	2,3,7,8-TCDD-13C	2.00	101
					1,2,3,7,8-PeCDF-13C	2.00	100
2,3,7,8-TCDD	24	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD	880	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	1500	-----	5.0		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	790	-----	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	12000	-----	5.0	E	1,2,3,7,8,9-HxCDF-13C	2.00	65
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	86	-----	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	940	-----	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	2800	-----	5.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	2000	-----	5.0		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	1100	-----	5.0				
1,2,3,7,8,9-HxCDF	860	-----	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	15000	-----	5.0	E	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	67	-----	5.0		2,3,7,8-TCDD-37Cl4	0.20	114
1,2,3,6,7,8-HxCDD	120	-----	5.0				
1,2,3,7,8,9-HxCDD	120	-----	5.0				
Total HxCDD	1000	-----	5.0				
1,2,3,4,6,7,8-HpCDF	9200	-----	5.0	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2900	-----	5.0	E	Equivalence: 1600 ng/Kg		
Total HpCDF	18000	-----	5.0	E	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	480	-----	5.0				
Total HpCDD	750	-----	5.0				
OCDF	110000	-----	10.0	E			
OCDD	750	-----	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-49933	Matrix	Solid
Filename	U160421B_06	Dilution	NA
Total Amount Extracted	11.7 g	Extracted	04/19/2016 21:30
ICAL ID	U160204	Analyzed	04/21/2016 22:30
CCal Filename(s)	U160421B_01 & U160421B_19	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	96
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	107
				1,2,3,7,8-PeCDF-13C	2.00	108
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	105
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	113
				1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	101
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-49934		
Filename	U160422A_04	Matrix	Solid
Total Amount Extracted	10.7 g	Dilution	NA
ICAL ID	U160204	Extracted	04/19/2016 21:30
CCal Filename(s)	U160421B_19 & U160422A_11	Analyzed	04/22/2016 11:12
Method Blank ID	BLANK-49933	Injected By	CVS

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.26	128	2,3,7,8-TCDF-13C	2.0	86
Total TCDF				2,3,7,8-TCDD-13C	2.0	92
				1,2,3,7,8-PeCDF-13C	2.0	93
2,3,7,8-TCDD	0.20	0.21	107	2,3,4,7,8-PeCDF-13C	2.0	88
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	94
				1,2,3,4,7,8-HxCDF-13C	2.0	83
1,2,3,7,8-PeCDF	1.0	1.2	125	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	1.2	118	2,3,4,6,7,8-HxCDF-13C	2.0	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	89
				1,2,3,4,7,8-HxCDD-13C	2.0	76
1,2,3,7,8-PeCDD	1.0	1.1	114	1,2,3,6,7,8-HxCDD-13C	2.0	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	68
1,2,3,4,7,8-HxCDF	1.0	1.2	120	1,2,3,4,6,7,8-HpCDD-13C	2.0	69
1,2,3,6,7,8-HxCDF	1.0	1.2	123	OCDD-13C	4.0	63
2,3,4,6,7,8-HxCDF	1.0	1.1	115			
1,2,3,7,8,9-HxCDF	1.0	1.2	119	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.3	130	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	1.0	1.3	127			
1,2,3,7,8,9-HxCDD	1.0	1.3	128			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.3	125			
1,2,3,4,7,8,9-HpCDF	1.0	1.2	122			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.2	119			
Total HpCDD						
OCDF	2.0	2.4	120			
OCDD	2.0	2.6	128			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
This copy reported on
28- APR- 2016
Account: ASTLAB

CERTIFICATE RE16055941

P.O. No.: N19343D

This report is for 5 Soil samples submitted to our lab in Reno, NV, USA on 9- APR- 2016.

The following have access to data associated with this certificate:

REPORTS		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
TRA- 21	Transfer sample
LOG- 22	Sample login - Rcd w/o BarCode
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

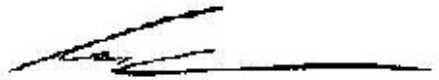
ALS CODE	DESCRIPTION	INSTRUMENT
PGM- MS23L	Low level PGM - FA ICPMS	ICP- MS

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519

To: ASSET LABORATORIES
ATTN: REPORTS
3151- 3153 W POST RD.
LOS VEGAS NV 89118

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
Account: ASTLAB

CERTIFICATE OF ANALYSIS RE16055941

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	PGM- MS23L Pt ppb 0.1
N019343- 001D/BIN1- 2016040(		0.14	2.9
N019343- 002D/STOCKPILE1A- 20160406		0.14	1.6
N019343- 003D/STOCKPILE1B- 20160406		0.14	1.6
N019343- 004D/STOCKPILE2A- 20160406		0.14	27.8
N019343- 005D/STOCKPILE2B- 20160406		0.14	48.0

***** See Appendix Page for comments regarding this certificate *****

ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com

To: ASSET LABORATORIES
3151- 3153 W POST RD.
LOS VEGAS NV 89118

Finalized Date: 27- APR- 2016
Account: ASTLAB

CERTIFICATE OF ANALYSIS RE16055941

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.
LOG- 22 PUL- 31 TRA- 21 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
PGM- MS23L

ATTACHMENT B
LANDFILL DISPOSAL DOCUMENTATION

NERT Export

Contaminated Soil to Republic Landfill		
Date	**Tons**	
Total	**Ticket #**	**980.81**
3/16/2016	52892	36.03
3/16/2016	52893	40.20
3/16/2016	52896	39.32
3/16/2016	52900	47.94
3/16/2016	52901	36.87
3/16/2016	52902	36.47
3/16/2016	52903	39.41
3/16/2016	52909	45.72
3/16/2016	52910	47.98
3/16/2016	52911	45.78
3/16/2016	52917	47.17
3/16/2016	52918	34.55
3/21/2016	52978	13.76
3/21/2016	52981	13.48
3/25/2016	53041	11.41
3/28/2016	53071	11.06
3/28/2016	53073	10.98
6/20/2016	55820	38.77
6/20/2016	55822	36.40
6/20/2016	55824	30.95
6/20/2016	55825	37.81
6/20/2016	55832	44.43
6/20/2016	55833	40.22
6/20/2016	55834	40.90
6/20/2016	55835	40.17
6/20/2016	55838	40.19
6/20/2016	55839	33.90
6/20/2016	55841	38.94

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52892
Date: 03/16/2016
Time In: 10:50 am
Time Out: 10:57 am

Customer: 001039 - Logistical Solutions

Vehicle/Container: 84918P
Contract: 3825 16 4077
Comment: 3825 16 4077

Gross Weight: 125,720 LB Manual In
Tare Weight: 53,660 LB Scale Out
Net Weight: 72060 LB
Net Tons: 36.03

BOL: 46431

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	36.03 TN	$36.15	$1,302.48

:CHD Clark County Waste Mgm $29.96

Total: $1,332.44

Driver: Matthew Hall

Weighmaster:

IN - CARLTONJ OUT - BOWDEMI

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

192458 H1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45431

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)
Nevada Environmental Response Trust
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Soil					36.03T
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

Republic Services Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 3 Day 16 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MATTHEW FISH — Signature: Matthew Fish — Month 3 Day 16 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Bourdo — Signature: MBourdo — Month 3 Day 16 Year 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 52893
Date: 03/16/2016
Time In: 10:47 am
Time Out: 11:10 am

Vehicle/Container: 52296A
Contract: 3825 16 4077
Comment: 3825 16 4077 192482

Gross Weight:	135,760	LB Scale In
Tare Weight:	55,360	LB Scale Out
Net Weight:	80400	LB
Net Tons:	40.20	

BOL: 46434

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	40.20 TN	$36.15	$1,453.23

:CHD Clark County Waste Mgm $33.42

Total: $1,486.65

Driver: _____ Weighmaster: _____

BOWDEMI

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

192482

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45434

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)

Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					40.2 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 3 Day 16 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFFREY E BANKS — Signature: Jeffrey E Banks — Month 3 Day 16 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Bankston — Signature: Michelle Bankston — Month 3 Day 16 Year 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 52896
Date: 03/16/2016
Time In: 10:49 am
Time Out: 11:18 am

Vehicle/Container: 97348P
Contract: 3825 16 4077
Comment: 3825 16 4077 192466

Gross Weight:	134,100	LB Manual In
Tare Weight:	55,460	LB Scale Out
Net Weight:	78640	LB
Net Tons:	39.32	

BOL: 46433

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	39.32 TN	$36.15	$1,421.42

:CHD Clark County Waste Mgm $32.69

Total: $1,454.11

Driver:

Weighmaster:

BOWDEMI

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

19246d6

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45433

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)

Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					39.32 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 — Day: 16 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Bigas — Signature: — Month: 3 — Day: 16 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Bourke — Signature: Michelle Bourke — Month: 3 — Day: 16 — Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 52900
Date: 03/16/2016
Time In: 12:52 pm
Time Out: 12:52 pm

Vehicle/Container: 84918P
Contract: 3825 16 4077
Comment: 192458

Gross Weight:	149,480	LB Scale In
Tare Weight:	53,600	LB Manual Out
Net Weight:	95880	LB
Net Tons:	47.94	

BOL: 46435

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	47.94 TN	$36.15	$1,733.03

:CHD Clark County Waste Mgm $39.86

Total: $1,772.89

Driver: Martha Lira

Weighmaster: JC

CARLTONJ

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1-of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	46435

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
APEX Regional Landfill
13550 US Highway 93 North
Facility's Phone: 702-599-5920 Las Vegas, NV 89165 USA

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					47.94T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 16 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MATTHEW FISH — Signature: Matthew Fish — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Matthew Fish Jamie Carlton — Signature: Jcarlton — Month: 3 Day: 16/16 Year

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 52901
Date: 03/16/2016
Time In: 12:54 pm
Time Out: 12:54 pm

Vehicle/Container: 84919P
Contract: 3825 16 4077
Comment: 192459

Gross Weight: 125,520 LB Scale In
Tare Weight: 51,780 LB Manual Out
Net Weight: 73740 LB
Net Tons: 36.87

BOL: 46435

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	36.87 TN	$36.15	$1,332.85

:CHD Clark County Waste Mgm $30.66

Total: $1,363.51

Driver: 

Weighmaster: 

CARLTONJ

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45436

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)

Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					36.87 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 — Day: 16 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sean Dumm — Signature — Month: 3 — Day: 16 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Carlton — Signature: JCarlton — Month: 3 — Day: 16 — Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND . INVOICE

Ticket Number: 52902
Date: 03/16/2016
Time In: 1:00 pm
Time Out: 1:00 pm

Vehicle/Container: 52296A
Contract: 3825 16 4077
Comment: 192482

Gross Weight: 128,300 LB Scale In
Tare Weight: 55,360 LB Manual Out
Net Weight: 72940 LB
Net Tons: 36.47

BOL: 46437

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	36.47 TN	$36.15	$1,318.39

:CHD Clark County Waste Mgm $30.32

Total: $1,348.71

Driver: _____

Weighmaster: _____

CARLTONJ

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	46437

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					36.47 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 16 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Jeffrey E. Burks — Signature: X Jeffrey E. Burks — Month: 3 Day: 16 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Carlton — Signature: Jamie Carlton — Month: 3 Day: 16 Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND : INVOICE

Ticket Number: 52903
Date: 03/16/2016
Time In: 1:04 pm
Time Out: 1:04 pm

Vehicle/Container: 97348P
Contract: 3825 16 4077
Comment: 192466

Gross Weight: 134,600 LB Scale In
Tare Weight: 55,780 LB Manual Out
Net Weight: 78820 LB
Net Tons: 39.41

BOL: 46438

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	39.41 TN	$36.15	$1,424.67

:CHD Clark County Waste Mgm $32.77

Total: $1,457.44

Driver: _____

Weighmaster: _____

CARLTONJ

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	46438

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA 312-498-2800
Generator's Phone:

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA — U.S. EPA ID Number
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazzardous Soil					39.41Tn
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 3 Day 16 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Byers — Signature — Month 3 Day 6 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Carlton — Signature — Month 3 Day 16 Year 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52909
Date: 03/16/2016
Time In: 3:13 pm
Time Out: 3:35 pm

Customer: 001039 - Logistical Solutions

Vehicle/Container: 84918P
Contract: 3825 16 4077
Comment: 192458

Gross Weight:	144,400	LB Manual In
Tare Weight:	52,960	LB Scale Out
Net Weight:	91440	LB
Net Tons:	45.72	

BOL: 46439

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	45.72 TN	$36.15	$1,652.78
			CHD Clark County Waste Mgm		$38.01
			Total:		$1,690.79

Driver: Martha Lopez

Weighmaster: DIAZES

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

192458

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	46439

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					45.72 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 16 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MATTHEW FISH — Signature: X Matthew Fish — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Steven D [illegible] — Signature — Month / Day / Year

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 52910
Date: 03/16/2016
Time In: 3:23 pm
Time Out: 3:48 pm

Vehicle/Container: 52296A
Contract: 3825 16 4077
Comment: 192482

Gross Weight:	150,640	LB Manual In
Tare Weight:	54,680	LB Scale Out
Net Weight:	95960	LB
Net Tons:	47.98	

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	47.98 TN	$36.15	$1,734.48
			:CHD Clark County Waste Mgm		$39.89
				Total:	$1,774.37

Driver: _____ Weighmaster: _____

DIAZES

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

192482

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45441

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA 312-498-2800
Generator's Phone:

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					47.98 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 16 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeffrey E. Banks — Signature: Jeffrey E. Banks — Month: 3 Day: 16 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Bowden — Signature: MBowden — Month: 3 Day: 16 Year: 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52911
Date: 03/16/2016
Time In: 3:40 pm
Time Out: 4:06 pm

Customer: 001039 - Logistical Solutions

Vehicle/Container: 97348P
Contract: 3825 16 4077
Comment: 192466

Gross Weight: 147,360 LB Scale In
Tare Weight: 55,800 LB Scale Out
Net Weight: 91560 LB
Net Tons: 45.78

BOL: 46442

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	45.78 TN	$36.15	$1,654.95

:CHD Clark County Waste Mgm $38.06

Total: $1,693.01

Driver:

Weighmaster:

DIAZES

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

192466

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	45442

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA 312-498-2800
Generator's Phone:

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					45.78T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 16 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Daniel Bryan — Signature: — Month: 3 Day: 16 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Steven Bra — Signature — Month: 3 Day: 16 Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52917
Date: 03/16/2016
Time In: 3:17 pm
Time Out: 3:17 pm

Customer: 001039 - Logistical Solutions

Vehicle/Container: 84919P
Contract: 3825 16 4077
Comment: 192459

Gross Weight:	146,080	LB Scale In
Tare Weight:	51,740	LB Manual Out
Net Weight:	94340	LB
Net Tons:	47.17	

BOL: 46440

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	47.17 TN	$36.15	$1,705.20

:CHD Clark County Waste Mgm $39.22

Total: $1,744.42

Driver: _____

Weighmaster: _____

IN - DIAZES OUT - COLLINSS

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

197459

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-595-2021	45440

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA
Generator's Phone: 312-498-2800

Generator's Site Address (if different than mailing address)

Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					42.17 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 — Day: 16 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sean Dumm — Signature: [signature] — Month: 3 — Day: 16 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: 3 — Day: 16 — Year: 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52918
Date: 03/16/2016
Time In: 10:42 am
Time Out: 10:42 am

Customer: 001039 - Logistical Solutions

Vehicle/Container: 84919P
Contract: 3825 16 4077
Comment: 3825 16 4077

Gross Weight:	120,880	LB Manual In
Tare Weight:	51,780	LB Manual Out
Net Weight:	69100	LB
Net Tons:	34.55	

BOL: 46432 SEE 52890

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	34.55 TN	$36.15	$1,248.98

:CHD Clark County Waste Mgm $28.73

Total: $1,277.71

Driver: see 52890 for signature

Weighmaster: COLLINSS

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

849198 51780

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non Haz		702-596-2021	46432

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker, Suite 1550
Chicago, IL 60601 USA 312-498-2800
Generator's Phone:

Generator's Site Address (if different than mailing address)
Nevada Environmental Response
510 4th Street
Henderson, NV 89015 USA

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Highway 93 North
Las Vegas, NV 89165 USA
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazzardous Soil					34.55 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Republic Service Profile Number: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 3 Day 16 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sean Dimm — Signature — Month 3 Day 16 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Barden — Signature — Month 3 Day 16 Year 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52978
Date: 03/21/2016
Time In: 10:48 am
Time Out: 11:14 am

Customer: 001039 - Logistical Solutions

Vehicle/Container: LS
Contract: 3825 16 4077
Comment: LS

Gross Weight:	53,000	LB	Scale In
Tare Weight:	25,480	LB	Scale Out
Net Weight:	27520	LB	
Net Tons:	13.76		

BOL: 46465

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	13.76 TN	$36.15	$497.42
			CHD Clark County Waste Mgm		$11.44
			Total:		$508.86

Driver: Ramon Muñoz

Weighmaster: soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Non-Haz
2. Page 1 of
3. Emergency Response Phone: 702-596-0202
4. Waste Tracking Number: 46465

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60601
Generator's Phone: 312-496-2800

Generator's Site Address (if different than mailing address)
NERT
510 4th street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US HWY North 93
Las Vegas, NV 89165
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	CM	104D	T	13.76 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project #: MIC161008
RSSN Profile#: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: OBO NERT Ryan Mueller — Signature: Ryan Mueller — Month 3 Day 21 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan Mueller — Signature: Ryan Mueller — Month 3 Day 21 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: MARC SORIA — Signature — Month 3 Day 21 Year 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 52981
Date: 03/21/2016
Time In: 2:27 pm
Time Out: 2:50 pm

Customer: 001039 - Logistical Solutions

Vehicle/Container: LS
Contract: 3825 16 4077
Comment: 3825 16 4077 LS024

Gross Weight:	52,080	LB Scale In
Tare Weight:	25,120	LB Scale Out
Net Weight:	26960	LB
Net Tons:	13.48	

BOL: 46467

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	13.48 TN	$36.15	$487.30
			:CHD Clark County Waste Mgm		$11.21
				Total:	$498.51

Driver: _____ Weighmaster: _____
BOWDEMI

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Non-Haz
2. Page 1 of
3. Emergency Response Phone: 702-596-2021
4. Waste Tracking Number: 46467

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response trust
35 East Wacker suite 1550
Chicago IL 60601
Generator's Phone: 312-496-2800

Generator's Site Address (if different than mailing address)
NERT
510 4th street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landfill
13550 US Hwy North 93
Las Vegas, NV 89165
Facility's Phone: 702-599-5920
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	CM	15 YD	T	13.48 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project #: MIC161008
RSSN Profile#: 385 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH
Signature: Stephen Clough
Month: 3 Day: 21 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan Mueller
Signature:
Month: 3 Day: 21 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Michelle Bowden
Signature:
Month: 3 Day: 24 Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 53041
Date: 03/25/2016
Time In: 6:46 am
Time Out: 7:14 am

Vehicle/Container: LS
Contract: 3825 16 4077
Comment: 3825 16 4077

Gross Weight:	48,240	LB Manual In
Tare Weight:	25,420	LB Scale Out
Net Weight:	22820	LB
Net Tons:	11.41	

BOL: 46466

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	11.41 TN	$36.15	$412.47

:CHD Clark County Waste Mgm $9.49

Total: $421.96

Driver: Ellio Tato A

Weighmaster: JC

CARLTONJ

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Non-Haz
2. Page 1 of
3. Emergency Response Phone: 702-596-2021
4. Waste Tracking Number: 46466

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60601
Generator's Phone: 312-446-2400

Generator's Site Address (if different than mailing address)
NERT
510 4th Street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
APEX Regional Landfill
13550 US Hwy North 93
Las Vegas, NV 89165
Facility's Phone: 702-599-5920

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	CM	LB	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
LOSO Project #: MIC161008
RSSN Profile #: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 3 Day 21 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan Mueller — Signature: Ryan Mueller — Month 3 Day 21 Year 16

Transporter 2 Printed/Typed Name: Ellis Wafer — Signature: Ellis Wafer — Month 3 Day 25 Year 16

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Carlton — Signature: Jamie Carlton — Month 3 Day 25 Year 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 53071
Date: 03/28/2016
Time In: 11:16 am
Time Out: 11:41 am

Customer: 001039 - Logistical Solutions

Vehicle/Container: LS
Contract: 3825 16 4077
Comment: ls

Gross Weight:	47,440	LB Scale In
Tare Weight:	25,320	LB Scale Out
Net Weight:	22120	LB
Net Tons:	11.06	

BOL: 46469

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	11.06 TN	$36.15	$399.82

:CHD Clark County Waste Mgm $9.20

Total: $409.02

Driver: 

Weighmaster: 

soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NON-HAZ		702-896-2021	

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS SOLID	001	CM	LOW BOY	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 — Day: 28 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan Mueller — Signature — Month: 3 — Day: 26 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Ticket Type: INBOUND INVOICE

Ticket Number: 53073
Date: 03/28/2016
Time In: 2:19 pm
Time Out: 2:46 pm

Customer: 001039 - Logistical Solutions

Vehicle/Container: LS
Contract: 3825 16 4077
Comment: 3825 16 4077

Gross Weight: 46,920 LB Manual In
Tare Weight: 24,960 LB Manual Out
Net Weight: 21960 LB
Net Tons: 10.98

BOL: 46468

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	10.98 TN	$36.15	$396.93
			:CHD Clark County Waste Mgm		$9.13
				Total:	$406.06

Driver: _____ Weighmaster: _____

BOWDEMI

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46469

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago IL 60601
Generator's Phone: 312 346-496-2800

Generator's Site Address (if different than mailing address)
NERT
510 4th Street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
APEX Regional Landf'll
13550 US HWY North 93
Las Vegas, NV 89165
Facility's Phone: 702-599-5920 — U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	CM	Low B04	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
LOSO Project #: MIC 161008
RSSN Profile #: 3825 16 4077

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 3 Day: 28 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryan Mueller — Signature: Ryan Mueller — Month: 3 Day: 28 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Soria — Signature — Month: 3 Day: 28 Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55820
Date: 06/20/2016
Time In: 6:50 am
Time Out: 7:19 am

Vehicle/Container: 96109P
Contract: 3825 16 7808
Comment: 3825 16 7808 192509

Gross Weight: 132,060 LB Scale In
Tare Weight: 54,520 LB Scale Out
Net Weight: 77540 LB
Net Tons: 38.77

BOL: 46539

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	38.77 TN	$35.50	$1,376.34

CHD Clark County Waste Mgm $31.66

Total: $1,408.00

Driver:

Weighmaster:

soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

96109P

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46539

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60606

Generator's Phone:

Generator's Site Address (if different than mailing address)

NERT
510 Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	387T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

LOSO ~~Project~~ Project No: MIC161008

RSSN Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Blake Lorson — Signature — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Soria — Signature — Month: 6 — Day: 20 — Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55822
Date: 06/20/2016
Time In: 7:08 am
Time Out: 7:30 am

Vehicle/Container: 96108P
Contract: 3825 16 7808
Comment: 192508

Gross Weight: 127,380 LB Scale In
Tare Weight: 54,580 LB Scale Out
Net Weight: 72800 LB
Net Tons: 36.40

BOL: 46533

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	36.40 TN	$35.50	$1,292.20

:CHD Clark County Waste Mgm $29.72

Total: $1,321.92

Driver: _____

Weighmaster: _____
soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		702-596-2021	46533

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago IL 60606

Generator's Phone:

Generator's Site Address (if different than mailing address)

NERT
510 Fourth Street
Henderson, NV89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	36.40T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Loso Project No: MIC161008

RSSN Orifuk No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stph Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Craig Lowe — Signature: — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Sousa — Signature: — Month: 6 — Day: 20 — Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55824
Date: 06/20/2016
Time In: 7:18 am
Time Out: 7:42 am

Vehicle/Container: 96103P
Contract: 3825 16 7808
Comment: 192503

Gross Weight: 116,620 LB Scale In
Tare Weight: 54,720 LB Scale Out
Net Weight: 61900 LB
Net Tons: 30.95

BOL: 46541

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	30.95 TN	$35.50	$1,098.73

CHD Clark County Waste Mgm $25.27

Total: $1,124.00

Driver: CHB 4739

Weighmaster: soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		7020 596-2021	46541

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response TRUST
#8 35 East Wacker T]Street
Chicago, IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	30.95 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project No: MIC161008
RSSN Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 6 Day 17 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: + MARK BOLLIGAN — Signature — Month 6 Day 20 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Soria — Signature — Month 6 Day 20 Year 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55825
Date: 06/20/2016
Time In: 7:27 am
Time Out: 7:53 am

Vehicle/Container: 96110P
Contract: 3825 16 7808
Comment: 96110P

Gross Weight:	130,000	LB Scale In
Tare Weight:	54,380	LB Scale Out
Net Weight:	75620	LB
Net Tons:	37.81	

BOL: 46540

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	37.81 TN	$35.50	$1,342.26

:CHD Clark County Waste Mgm $30.87

Total: $1,373.13

Driver: 1195

Weighmaster: soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

96110P

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46540

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Street
Chicago IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 E Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Apex Regional Landfill
13550 US Hwy N 93 North
Las Vegas, NV 89165
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	37.81T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project No: MIC161008
RSSN Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Bruce Taylor — Signature: Bruce Taylor — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Soria — Signature — Month: 6 — Day: 20 — Year: 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55832
Date: 06/20/2016
Time In: 10:03 am
Time Out: 10:22 am

Vehicle/Container: 96109P
Contract: 3825 16 7808
Comment: 192509 LVP

Gross Weight: 143,180 LB Scale In
Tare Weight: 54,320 LB Scale Out
Net Weight: 88860 LB
Net Tons: 44.43

BOL: 46542

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	44.43 TN	$35.50	$1,577.27

CHD Clark County Waste Mgm $36.28

Total: $1,613.55

Driver: _____

Weighmaster: _____

IN - diazes OUT - soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46542

GENERATOR

5. Generator's Name and Mailing Address

Nevada Environmental Response Trust
35 East Wacker Street
Chicago, IL 60606

Generator's Phone:

Generator's Site Address (if different than mailing address)

NERT
510 Fourth Street
Henderson, nV 89015

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	44.43T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Loso Project No: MIC161008
Republic SERVICES Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Blake Lausen — Signature: [signature] — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☑ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: [signature] — Month: 6 — Day: 20 — Year: 16

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55833
Date: 06/20/2016
Time In: 10:08 am
Time Out: 10:28 am

Vehicle/Container: 96108P
Contract: 3825 16 7808
Comment: 192508 LVP

Gross Weight: 134,700 LB Scale In
Tare Weight: 54,260 LB Scale Out
Net Weight: 80440 LB
Net Tons: 40.22

BOL: 46543

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	40.22 TN	$35.50	$1,427.81

:CHD Clark County Waste Mgm $32.84

Total: $1,460.65

Driver: _____ Weighmaster: _____

IN - diazes OUT - soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-3021	46543

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 Wacker Street
Chicago IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89165

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas NV 89165
Facility's Phone: — U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT	T		40.22
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project No: MIC161008
RSSN R ~~Po~~ Profile #: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 Day: 17 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Craig Lowe — Signature: [signature] — Month: 6 Day: 20 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702 596 2021	46543

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 Wacker Street
Chicago IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89165

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas NV 89165
U.S. EPA ID Number:
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	4022
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project No: MIC161008
RSSN R [illegible] 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: [signature] — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55834
Date: 06/20/2016
Time In: 10:15 am
Time Out: 10:38 am

Vehicle/Container: 96103P
Contract: 3825 16 7808
Comment: 3825 16 7808 192503

Gross Weight: 136,260 LB Scale In
Tare Weight: 54,460 LB Manual Out
Net Weight: 81800 LB
Net Tons: 40.90

BOL: 46544

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	40.90 TN	$35.50	$1,451.95

CHD Clark County Waste Mgm $33.39

Total: $1,485.34

Driver: CJ 4789

Weighmaster:

IN - soriama OUT - diazes

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-5962021	46544

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wackwer Street
Chicago, IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89165 015

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165
Facility's Phone: — U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	41981
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso Project No: MIC161008
RSSN Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MARK BOLLMAN — Signature — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Clarkson — Signature — Month: 6 — Day: 20 — Year: 16

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55835
Date: 06/20/2016
Time In: 10:23 am
Time Out: 10:47 am

Vehicle/Container: 96110P
Contract: 3825 16 7808
Comment: 3825 16 7808 192510

Gross Weight: 134,540 LB Scale In
Tare Weight: 54,200 LB Scale Out
Net Weight: 80340 LB
Net Tons: 40.17

BOL: 46545

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	40.17 TN	$35.50	$1,426.04

:CHD Clark County Waste Mgm $32.80

Total: $1,458.84

Driver: 1145

Weighmaster:

soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46545

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Street
Chicago, IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV ~~89165~~ 89015

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Apex Regional Landfill
13550 US Hwy 93 North
Las Vegas, NV 89165
U.S. EPA ID Number:
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	40.17T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Ls Project No: MIC161008

RSSN Profile NO: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Steph Clough — Month 6 Day 17 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Bruce Taylor — Signature: Bruce Taylor — Month 6 Day 20 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jamie Carter — Signature: [signature] — Month 6 Day 20 Year 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55838
Date: 06/20/2016
Time In: 12:01 pm
Time Out: 12:21 pm

Vehicle/Container: 96109P
Contract: 3825 16 7808
Comment: 192509

Gross Weight: 134,340 LB Scale In
Tare Weight: 53,960 LB Scale Out
Net Weight: 80380 LB
Net Tons: 40.19

BOL: 46546

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	40.19 TN	$35.50	$1,426.75
			CHD Clark County Waste Mgm		$32.82
				Total:	$1,459.57

Driver:

Weighmaster:

IN - diazes OUT - soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46546

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Street
Chicago Il 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name
Las Vegas Paving
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Apex Regional Landfill
13559 US Hwy 93 North
Las Vegas, NV 89165
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	40.19T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso ~~prof~~ project #. MIC~~####~~161008
RSSN PRofile no: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH
Signature: Stephen Clough
Month: 6 Day: 17 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: x Kate Larsen
Signature:
Month: 6 Day: 20 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 6 Day: 20 Year: 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55839
Date: 06/20/2016
Time In: 12:08 pm
Time Out: 12:26 pm

Vehicle/Container: 96108P
Contract: 3825 16 7808
Comment: 192508

Gross Weight:	121,700	LB Scale In
Tare Weight:	53,900	LB Scale Out
Net Weight:	67800	LB
Net Tons:	33.90	

BOL: 46547

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	33.90 TN	$35.50	$1,203.45

:CHD Clark County Waste Mgm $27.68

Total: $1,231.13

Driver: _____

Weighmaster: _____
soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-Haz		702-596-2021	46547

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental Response Trust
35 East Wacker Street
Chicago, IL 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Apex Regional Landfill
13550 US HWY 93 North
Las Vegas, NV 89165
U.S. EPA ID Number:
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	33.90T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
LOso Proe Project No: MIC161008
RSSN Profile NO: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month 6 Day 17 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: + Craig Loveless — Signature: Craig Loveless — Month 6 Day 20 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Marc Soria — Signature — Month 8 Day 20 Year 16

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

81 Environmental Tech
13550 N Highway 93
Las Vegas, NV 89165

Customer: 001039 - Logistical Solutions

Ticket Type: INBOUND INVOICE

Ticket Number: 55841
Date: 06/20/2016
Time In: 12:32 pm
Time Out: 12:58 pm

Vehicle/Container: 96103P
Contract: 3825 16 7808
Comment: 192503

Gross Weight: 131,880 LB Scale In
Tare Weight: 54,000 LB Scale Out
Net Weight: 77880 LB
Net Tons: 38.94

BOL: 46548

Origin	Yards	Material	Billing Quantity	Rate	Disposal
Not Applicable	0.00 YD	SW CONTAMINATED SOIL	38.94 TN	$35.50	$1,382.37

:CHD Clark County Waste Mgm $31.79

Total: $1,414.16

Driver: CB 4739

Weighmaster:

IN - diazes OUT - soriama

Indemnification. Customer agrees, by signature above, to indemnify, hold harmless, and defend Republic Services, Inc., its subsidiaries, affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto, including costs of defense, settlement, and reasonable attorney's fees, which may be incurred, as a result of death or injuries to any person, or damage to any property, contamination of or adverse effects on the environment, caused in whole or in part by the Customer, its employees, or subcontractors in disposing waste at this Facility. In the event Customer delivers Unacceptable Waste (as determined by Republic) Customer agrees to assume all expenses and obligations with the removal and/or resolution of any effects caused by the delivery of such Unacceptable Waste.

Indemnización. Cliente acuerda indemnizar, mantener inmune, y defender Republic Services, Inc., sus subsidiarios, companias, divisiones, empleados, oficiales y directores contra de cualquiera y de todas responsabilidades, demandas, penas, pérdidas, juicios, pleitos y los costos incidente además, incluyendo costos de defensa, de acuerdo judicial, y de honorarios razonables del abogado, que pueden ser incurridos en, o como resultado de, la muerte o herida personal a cualquier persona, o daños a cualquier característica, propiedad, contaminación de la tierra o efectos ilicitos en esta Facilidad, causado entero o en parte por el cliente, sus empleados, o sus subcontratistas en botar basura en esta Facilidad. En el caso que el Cliente entrega, bota, basura (según lo determinado por Republic) en este Establecimiento basura inaceptable en los reglamentos de este Establecimiento, el Cliente se compromete asumar todos los costos y obligaciones con el retiro y/o la resolución de cualquier dano(s) causado por la entrega de tal basura inaceptable.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Non-HAZ		702-596-2021	46548

GENERATOR

5. Generator's Name and Mailing Address
Nevada Environmental RESPONSE Trust
35 East Wacker Street
Chicago Il 60606
Generator's Phone:

Generator's Site Address (if different than mailing address)
NERT
510 Fourth Street
Henderson, NV 89015

6. Transporter 1 Company Name: Las Vegas Paving — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Apex Regional Landfill
Apex RegionalLsnf
13550 US Hwy 93 North
Las Vegas, NV 89165
Facility's Phone: — U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Soil	001	DT		T	38.94 T
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Loso project No: MIC161008
Rssn Profile No: 3825 16 7808

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: STEPHEN CLOUGH — Signature: Stephen Clough — Month: 6 — Day: 17 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MARK BOLLMAN — Signature — Month: 6 — Day: 20 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

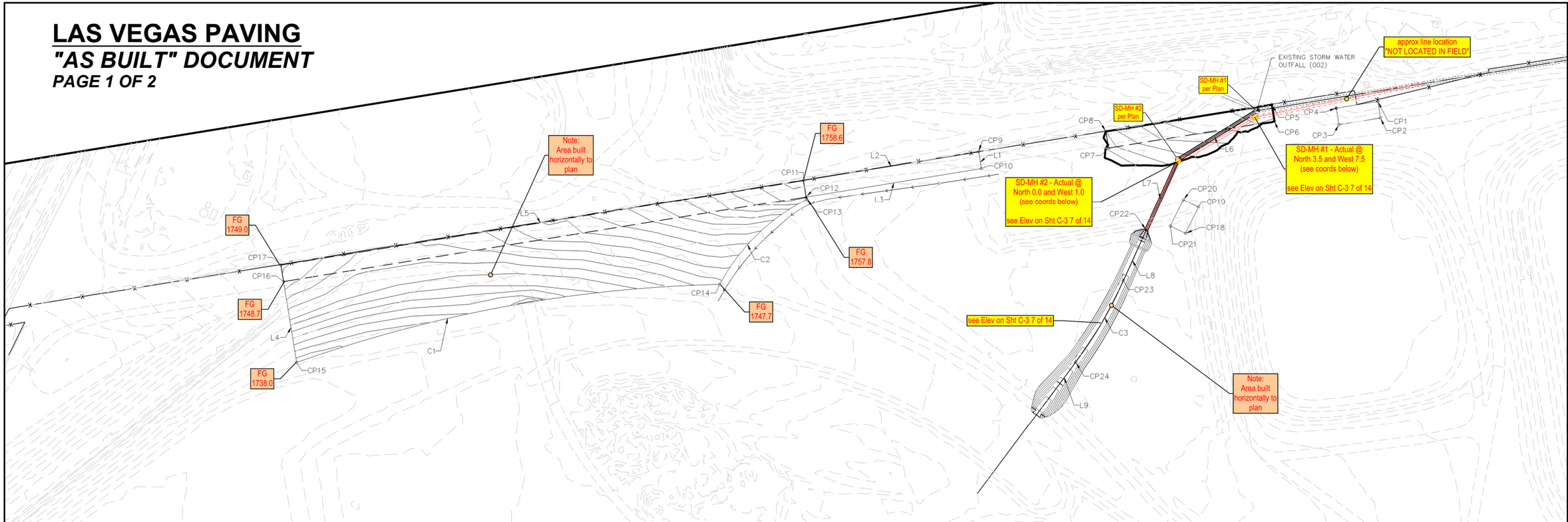
Printed/Typed Name — Signature — Month: 6 — Day: 20 — Year: 16

ATTACHMENT C
AS-BUILT PROJECT DRAWINGS

LAS VEGAS PAVING

"AS BUILT" DOCUMENT

PAGE 1 OF 2



POINT TABLE		
POINT #	NORTHING	EASTING
CP1	26718987.13	828948.29
CP2	26718983.97	828928.55
CP3	26719033.34	828920.63
CP4	26719036.50	828940.38
CP5	26719113.21	828944.48
CP6	26719110.02	828924.73
CP7	26719307.46	828892.84
CP8	26719310.65	828912.58
CP9	26719462.05	828888.67
CP10	26719458.75	828868.44
CP11	26719670.53	828854.20
CP12	26719667.33	828834.46

POINT TABLE		
POINT #	NORTHING	EASTING
CP13	26719666.83	828831.39
CP14	26719770.11	828730.23
CP15	26720273.57	828637.38
CP16	26720289.17	828733.44
CP17	26720292.38	828753.18
CP18	26719215.99	828790.85
CP19	26719200.48	828822.23
CP20	26719218.41	828831.09
CP21	26719233.92	828799.71
CP22	26719262.68	828794.67
CP23	26719289.62	828734.96
CP24	26719346.54	828637.63

PLAN / DESIGN

SD-MH #1	26719131.41	828942.02
SD-MH #2	26719223.18	828883.94

ACTUAL AS-BUILT

SD-MH #1	26719134.72	828934.49
SD-MH #2	26719223.18	828882.78

PARCEL LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	20.00	S80°44'54"W
L2	211.32	S9°15'06"E
L3	211.33	N9°15'06"W
L4	117.32	N80°46'20"E
L5	630.00	S9°13'40"E
L6	110.00	N31°48'44"W
L7	88.00	N65°43'01"W
L8	74.15	N65°43'01"W
L9	195.01	N53°12'56"W

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	514.11	1615.80	18°13'49"	259.25
C2	146.81	241.90	34°46'24"	75.75
C3	109.09	500.00	12°30'05"	54.76

60' 30' 0 60' 120'

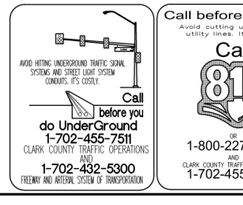
1"=60'

BASIS OF BEARINGS

SOUTH 89°53'11" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION 12, TOWNSHIP 22 SOUTH, RANGE 62 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY AN UNRECORDED "ALTA/ACSM LAND TITLE SURVEY" MAP, PREPARED FOR THE TRONOX SITE BY CHRISTOPHER L. ALBERS, PLS NO. 8866 AS AGENT FOR QUANTUM SURVEYING L.L.C., CERTIFIED ON FEBRUARY 7, 2011.

BENCHMARK

BENCHMARK NUMBER: 69
BOLT AND WASHER IN THE TOP OF CURB AT THE NORTHWEST CORNER OF BASIC ROAD AND PACIFIC AVENUE.
ELEVATION = 1971.79 FT, 601.003 M (NAVD 88 DATUM) PER THE CITY OF HENDERSON VERTICAL CONTROL BOOK (NAVD 88) REVISED 2004



ALWAYS THINK SAFETY

Project Title:
STORM WATER OUTFALL RELOCATION AND PROPERTY LINE GRADING
ENVIRON INTERNATIONAL CO.
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
510 4TH STREET, HENDERSON, NV

Sheet Title: CONTROL DRAWING

Civil Engineer:
S&B CHRIST CONSULTING, LLC
OPS ISSUE-BUILT & CIVIL/ENVIRONMENTAL ENGINEERING
5580 S. FORT APACHE RD. #130
LAS VEGAS, NEVADA 89148
OFFICE: (702) 202-6904
SBCHRISTCONSULTING.COM

Revisions:		
#	Description	Date

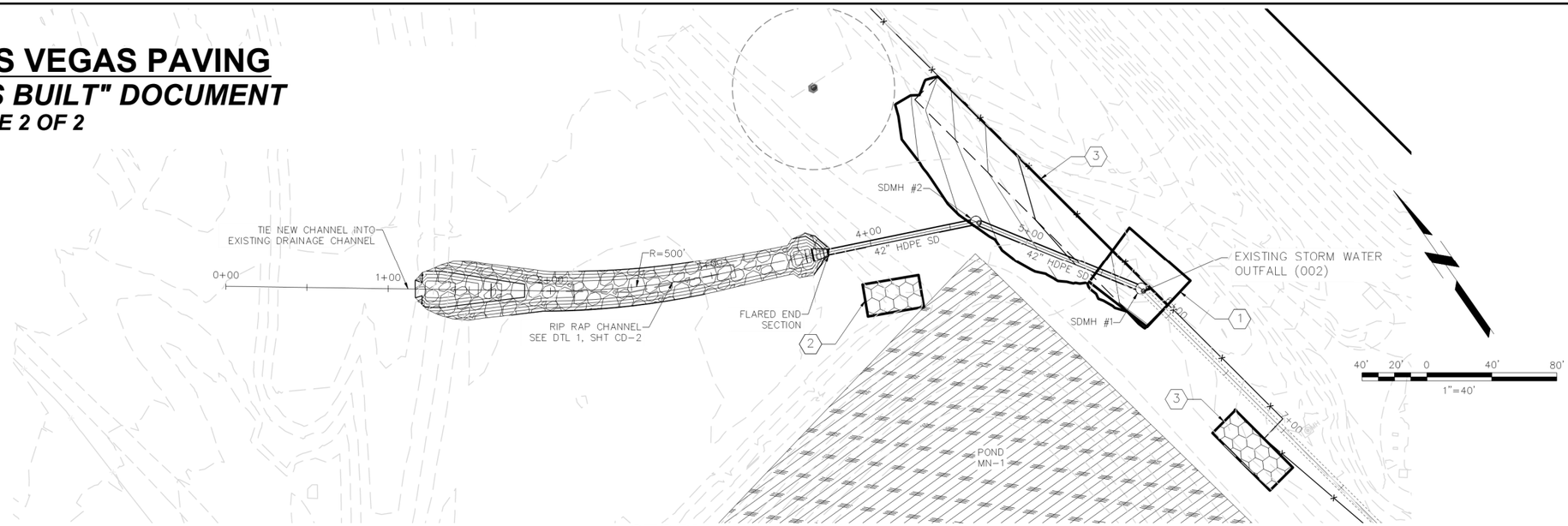
PROFESSIONAL ENGINEER - STATE OF NEVADA
DANIEL F. KELLEY
Exp. 06/30/2017
CIVIL
No. 21134

Contract #	21-34800G-G10
Designed by:	D. Duranleau
Drawn by:	D. Duranleau
Checked by:	J. Tull
Reviewed by:	B. Christ
Approved by:	D. Kelley
Date:	2015 AUG 31

C-2

Sheet 6 of 14

LAS VEGAS PAVING
"AS BUILT" DOCUMENT
PAGE 2 OF 2

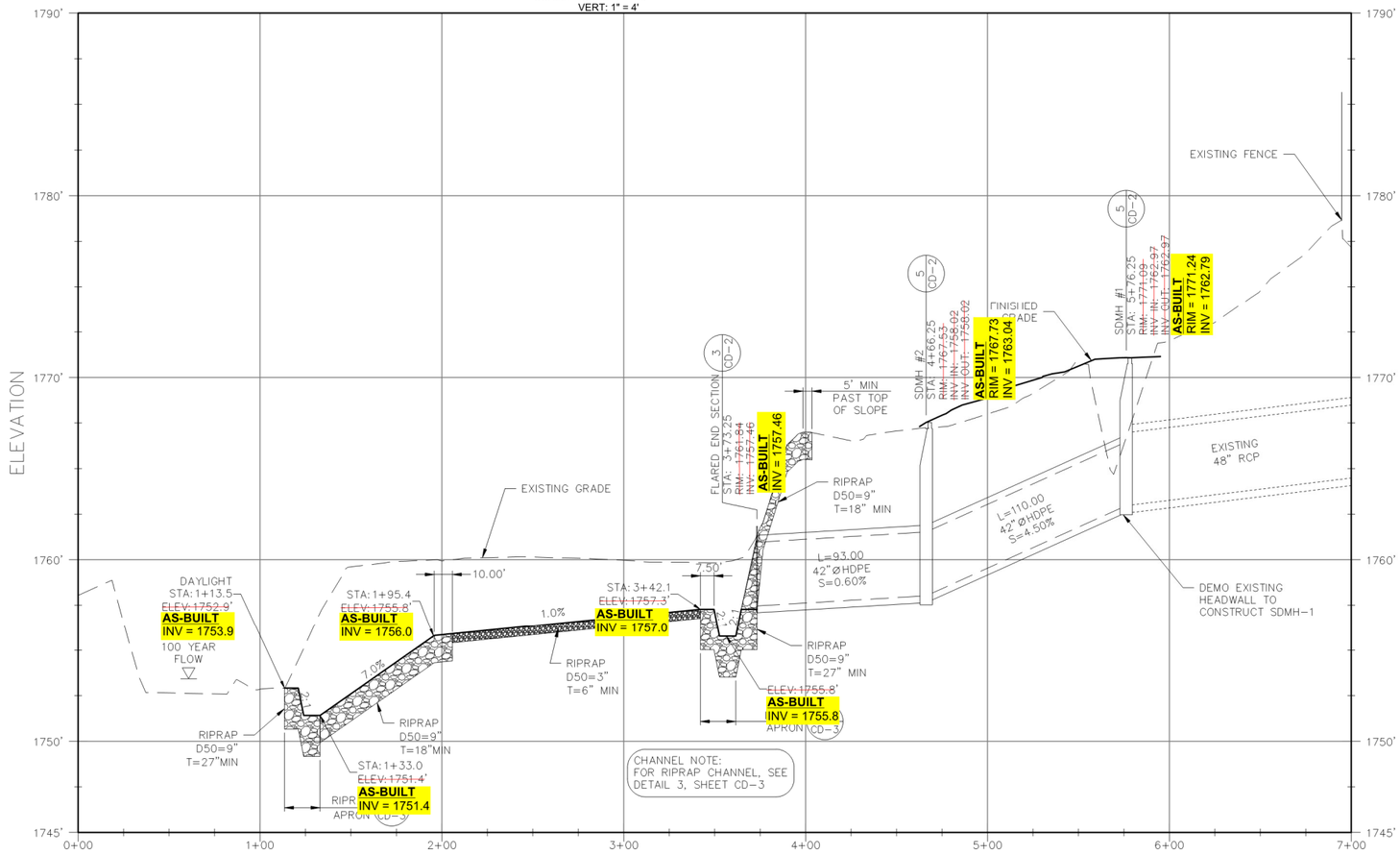


CONSTRUCTION NOTES:

1. EXTENTS OF WORK AREA REQUIRING ACCESS ONTO TIMET PROPERTY. ENVIRON SHALL COORDINATE WITH TIMET FOR REMOVAL OF THE FENCE ALONG THE PROPERTY LINE AND ACCESS ONTO TIMET PROPERTY DURING CONSTRUCTION. CONTRACTOR TO INSTALL TEMPORARY FENCE TO MEET DHS REQUIREMENTS AND MATCH EXISTING CONDITIONS.
2. STORMWATER OUTFALL GRADING PLAN. SEE SHEET C-4.
3. PROPERTY LINE GRADING. SEE SHEET C-5.
4. INSTALL 42" HDPE PIPE PER DETAIL 2, SHEET CD-3.

STORM SEWER PLAN

SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'



STORM SEWER PROFILE

Project Title:
STORM WATER OUTFALL RELOCATION AND PROPERTY LINE GRADING
ENVIRON INTERNATIONAL CO.
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
510 4TH STREET, HENDERSON, NV

Sheet Title: STORM WATER OUTFALL PLAN & PROFILE

Civil Engineer:
S&B CHRIST CONSULTING, LLC
OPS/ESE/IRST & CIVIL/ENT ENGINEERING
5580 S. FORT APACHE RD. #130
LAS VEGAS, NV 89148
OFFICE: (702) 202-6904
SBCHRISTCONSULTING.COM

Revisions:

#	Description	Date

PROFESSIONAL ENGINEER - STATE OF NEVADA
DANIEL F. KELLEY
Exp. 06/30/2017
CIVIL
No. 21134

Contract #	21-34800G-G10
Designed by:	D. Duranleau
Drawn by:	D. Duranleau
Checked by:	J. Tull
Reviewed by:	B. Christ
Approved by:	D. Kelley
Date:	2015 AUG 31

C-3

Sheet 7 of 14

ATTACHMENT D
GEOSYNTHETIC CLAY LINER INSTALLATION AND MATERIAL SPECIFICATIONS

SECTION 02413

GEOSYNTHETIC CLAY LINER (GCL)

PART 1 - GENERAL

1.01 SUMMARY

A. GCL meeting the following specifications shall be installed as part of the clean soil cover system. Installer shall furnish all labor, materials, tools, supervision, transportation, and equipment for proper handling and installation over the area shown on the Drawings. Sufficient material for full coverage, overlaps, and waste shall be provided.

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM), current edition.

1.03 SUBMITTALS

A. Pre-installation: Submit prior to GCL delivery.

1. Identification of bentonite used for production of GCL.

2. Results of quality control tests conducted by GCL Manufacturer to verify that bentonite supplied met GCL Manufacturer's specifications.

3. Written certification that minimum values given in Specifications are guaranteed by Manufacturer.

4. Quality control certificates, signed by responsible party employed by Manufacturer. Each quality control certificate shall include roll identification numbers, testing procedures, and results of quality control tests. These quality control tests shall be performed in accordance with test methods for at least every 100,000 lb for moisture content and swell index, and once per 40,000 ft^2 for mass per unit area. Index flux tests shall be performed in accordance with test methods for at least every 100,000 ft^2 of GCL produced. At minimum, results shall be submitted for:

a. Moisture content (ASTM D 4643 or D 2216)
b. Index flux (ASTM D 5887)
c. Swell index (ASTM D 5890)
d. Mass per unit area (ASTM D 5993)

5. Verification that needle punched non-woven geotextiles have been inspected continuously for broken needles.

6. Quality control certificates shall be delivered to ENGINEER prior to off- loading of the material on site.

B. Installation: Submit as installation proceeds:

1. Quality control documentation recorded during installation.

2. Subbase surface acceptance certificates signed by Earthwork CONTRACTOR and GCL Subcontractor for each area that will be covered directly by GCL. Submit prior to GCL deployment.

3. Deployment of GCL will be considered acceptance of subgrade if certificate is not submitted.

4. Material and Installation Warranty from manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. CONTRACTOR is responsible for providing protected GCL storage area.

B. Protect GCL from ultraviolet light exposure, moisture, excessive humidity, puncture, cutting, or other damaging conditions.

C. Rolls shall not be stacked so high as to cause thinning of the product at points of contact or as to cause crushing of the core.

D. Identify rolls of GCL with following:

1. Manufacturer's name.

2. Product identification.

3. Roll number.

4. Roll dimensions.

E. Rolls without proper identification will not be accepted or allowed on site.

F. Handle rolls in accordance with ASTM D 4873.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Manufacturers:

1. CETCO Bentomat DN

2. Or alternate approved by ENGINEER.

B. GCL Properties:

GEOSYNTHETIC CLAY LINER		
Property	**Method**	**Value**
Index Flux	ASTM D 5887	1×10^{-8} m^3/m^2-sec.maximum
Mass Per Unit Area		
1. Bentonite Content	ASTM D 5993	0.75 lb/ft^2 dry weight minimum
2. Geotextile Upper Layer (nonwoven)	ASTM D 5261	6.0 oz/yd^2 minimum
3. Geotextile Lower Layer (nonwoven)	ASTM D 5261	6.0 oz/yd^2 minimum
Swell Index	ASTM D 5890	24 ml/2 g minimum
Moisture Content	ASTM D 4643	12% maximum

PART 3 - EXECUTION

3.01 EXAMINATION

A. Ensure supporting soil surface for GCL is below 100% saturation and free of debris or materials that could damage rolls.

B. The subgrade shall be free of all large angular stones protruding from the surface than may cause installation damage. All debris and metal shall be removed from the subgrade or rolled smooth.

3.02 QUALITY ASSURANCE SAMPLING

A. CONTRACTOR shall make rolls available and assist ENGINEER in obtaining material inventory and material samples.

B. OWNER reserves the right to sample and test delivered material for conformance to specifications.

C. Material not meeting specification shall be rejected and removed from site at CONTRACTOR's expense. Retesting at CONTRACTOR's expense may be performed to limit rejection to specific rolls.

3.03 INSTALLATION

A. Overlap GCL seams minimum of 6 inches on edge seams and minimum of 24 inches on end seams or as otherwise specified by the manufacturer.

B. Overlap GCL panels to create a "shingle effect" such that water sheds over seams in the direction of flow. Seams shall receive 0.25 pounds of powdered bentonite per foot unless the material is manufactured with an edge seal method.

C. Do not deploy more GCL in one day than can be covered by end of that day.

D. Repair perforations or cuts in GCL with additional GCL layer extending 1-foot from edge of perforation or cut in each direction or as otherwise specified by the manufacturer.

E. Handle rolls to minimize loss of bentonite along edges during deployment.

F. Remove GCL exposed to moisture and prematurely hydrated prior to placement of overlying material and replaced with new GCL. Bentonite soft enough to displace when walked on shall be considered hydrated.

G. The installer is responsible for repair of areas of premature hydration of GCL until final acceptance by the OWNER.

H. GCL shall not be installed during precipitation, high wind, or other conditions that may hydrate or damage the GCL.

I. Horizontal seams are not allowed on slopes steeper than 10% unless INSTALLER provides an installation plan for ENGINEER's approval that describes anchoring and transfer of shear.

J. Subgrade ruts deeper than 2-inches shall be repaired during GCL placement.

K. Small vehicles such as ATV's and golf carts are allowed in controlled fashion on the exposed GCL as long as the tire pressure is less than 5 psi.

3.04 GCL PROTECTION

A. Materials placed on top of GCL shall comply with following:

1. GCL and underlying materials are not damaged.
2. Minimum slippage of GCL on underlying layers occurs.
3. No excess tensile stress occurs in GCL.

B. At no time shall vehicles or equipment be allowed to drive directly on top of the GCL unless approved by ENGINEER.

C. Place soil over GCL using LGP equipment with less than 5 psi ground contact pressure. Maintain a minimum of 6" between surface of GCL and tracks of LGP equipment at all times. No abrupt turns are allowed with track equipment on the GCL during placement of cover soil.

D. All other vehicles that are not LGP equipment shall maintain a minimum of 12 inches of soil between GCL and tracks or tires of vehicle or equipment unless the gross weight is over 15,000 pounds. Then the thickness of roads shall be increased to 3-feet for repeat traffic.

END SECTION

PRODUCT DATA SHEET

GSE BentoLiner NWL Geosynthetic Clay Liner

GSE BentoLiner "NWL" is a needle-punched reinforced composite geosynthetic clay liner (GCL) comprised of a uniform layer of granular sodium bentonite encapsulated between a nonwoven and a scrim-nonwoven geotextile for dimensional stability. The product is intended for moderate to steep slopes and moderate to high load applications where increased internal shear strength is required.

[*]

AT THE CORE:

This composite clay liner is composed of a uniform layer of granular sodium bentonite between a nonwoven and scrim-nonwoven textile for dimensional stability.

Product Specifications

Tested Property	Test Method	Frequency	Value
Geotextile Property			
Cap Nonwoven, Mass/Unit Area	ASTM D 5261	1/200,000 ft²	6.0 oz/yd² MARV(1)
Carrier Scrim Nonwoven, Mass/Unit Area	ASTM D 5261	1/200,000 ft²	6.0 oz/yd² MARV
Bentonite Property			
Swell Index	ASTM D 5890	1/100,000 lb	24 ml/2 g min
Moisture Content	ASTM D 4643	1/100,000 lb	12% max
Fluid Loss	ASTM D 5891	1/100,000 lb	18 ml max
Finished GCL Property			
Bentonite, Mass/Unit Area(2)	ASTM D 5993	1/40,000 ft²	0.75 lb/ft² MARV
Tensile Strength(3)	ASTM D 6768	1/40,000 ft²	45 lb/in MARV
Peel Strength	ASTM D 6496 ASTM D 4632(4)	1/40,000 ft²	3.5 lb/in MARV 21 lb MARV
Hydraulic Conductivity(5)	ASTM D 5887	1/Week	5 x 10^{-9} cm/sec max
Index Flux(5)	ASTM D 5887	1/Week	1 x 10^{-8} m³/m²/sec max
Internal Shear Strength(6)	ASTM D 6243	Periodically	500 psf Typical
TYPICAL ROLL DIMENSIONS			
Width x Length(7)	Typical	Every Roll	15.5 ft x 150 ft
Area per Roll	Typical	Every Roll	2,325 ft²
Packaged Weight	Typical	Every Roll	2,600 lb

NOTES:

- (1)Minimum Average Roll Value.
- (2)At 0% moisture content.
- (3)Tested in machine direction.
- (4)Modified ASTM D 4632 to use a 4 in wide grip. The maximum peak of five specimens averaged in machine direction.
- (5)Deaired, deionized water @ 5 psi maximum effective confining stress and 2 psi head pressure.
- (6)Typical peak value for specimen hydrated for 24 hours and sheared under a 200 psf normal stress.
- (7)Roll widths and lengths have a tolerance of ±1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

GSE ENVIRONMENTAL™

[DURABILITY RUNS DEEP]

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.

GSE ENVIRONMENTAL™

BENTOLINER GCL PRODUCTS

MANUFACTURING QUALITY ASSURANCE MANUAL

Contents

1.0 INTRODUCTION

This manual provides an overview of the GSE Manufacturing Quality Assurance Program for GSE BentoLiner fabric encased geosynthetic clay liner (GCL) products. It is intended for use by GSE's customers to enhance their understanding of the quality system under which GSE BentoLiner fabric encased GCL products are manufactured.

2.0 COMMITMENT TO QUALITY

GSE is committed to meeting or exceeding customer's requirements and industry standards. This commitment to quality is established through a documented quality management system, continuous employee training, investment in technology and emphasis on process control. GSE has allocated resources to ensure that this commitment to quality translates into the best products and services for its customers.

3.0 MANUFACTURING QUALITY ASSURANCE

GSE has an on-site quality assurance laboratory at each manufacturing facility worldwide. Each facility has a fully equipped, well staffed, dedicated laboratory with strict guidelines to maintain a high level of quality and up-to-the-minute results on GSE's finished products.

GSE has a rigorous set of minimum standards and an effective test program to assure compliance has been established. These procedures and requirements are frequently reviewed and adjusted to assure compliance with current market demands and/or predetermined project specifications. Also raw materials and process parameters are controlled to provide products complying with GSE's minimum characteristics and regulatory standards.

4.0 MANUFACTURING QUALITY ASSURANCE ORGANIZATION

GSE quality assurance department assures that only products meeting GSE and/or the customer's requirements are released for shipment. The quality assurance personnel are directly responsible for monitoring, testing, and providing feedback to the manufacturing department ensuring the production of the specified product quality. Each member of the quality assurance team must participate in detailed training that includes factory exposure.

The GSE quality assurance team consists of the manufacturing quality assurance laboratories, engineering staff and manufacturing personnel. The combination of expertise and experience from these groups provide GSE with the proper tools to maintain the highest level of product quality and customer service in the industry.

5.0 STAFF & SCHEDULING

The quality assurance laboratories are staffed during any manufacturing run. A continuous communication link is maintained between the laboratory and manufacturing personnel, maximizing production efficiency and product quality.

6.0 PRODUCT IDENTIFICATION & DOCUMENTATION

As the sodium bentonite clay is the primary "active" ingredient for the GSE BentoLiner GCL products, the supplier assigns clay lot numbers based upon their processing and delivery constraints. Once the clay is received, GSE maintains the lot designation for tracking and identification purposes.

A. Roll Numbering

Each roll of finished product is assigned a unique roll number. The quality assurance laboratory maintains records documenting the raw materials and resulting product quality information that can be associated with any particular roll of geosynthetic clay liner.

B. Post Production Quality Assurance

A sample of finished GCL is obtained by cutting across the roll width, 2.0 ft (600 mm) by 15.5 ft (4.7 m). This sample is immediately sent to the quality assurance laboratory for finished product testing.

C. Evaluation of Results

Samples of finished GSE BentoLiner GCL are tested using the frequencies and procedures listed in Appendix A. All data is recorded and compared to established customer or project specifications. If the finished product does not meet the required average values, the manufacturing personnel are immediately notified to make the appropriate adjustments. Only products meeting GSE's standard values and/or customer's specifications will be approved for shipment to the corresponding project.

D. Reporting

All rolls supplied for a specific project or order will be provided a manufacturing quality assurance document. This report identifies the standards by which the GSE approval is based along with the actual test results demonstrated. Each report is reviewed and initiated by the GSE's laboratory technician.

E. Packaging & Labeling

Each roll of GCL is packaged in a polyethylene sleeve capable of preventing undue moisture from contacting the enclosed GCL. Rips or tears in any packaging must be repaired or replaced, if in the judgement of the QC personnel, the damage is considered significant.

7.0 RECORDS RETENTION

GSE maintains all necessary reports and/or samples for products produced and sold. Records and/or samples are maintained according to GSE's standard retention policy as outlined below.

ITEM	YEAR
Raw Test Data (in computer database)	5
Quality Control Certificates	5
Sample Retain [1.0 ft^2 (300 m^2)]	5

8.0 TESTING CAPABILITIES

GSE maintains a modern, state-of-the-art, quality assurance laboratory capable of performing the analysis in Spearfish, South Dakota. Calibration of all laboratory equipment is performed minimally on an annual cycle. The calibration certificates are maintained for review upon request.

A. Routine Testing

GSE has developed a strict quality assurance program, which exceeds all industry's standards and/or the customer's specifications. This testing program covers raw materials and finished goods and is adhered to by all GSE's quality assurance laboratories.

B. Other Testing Capabilities

Although the GSE quality assurance laboratories are fully equipped and capable to perform most tests routinely specified, there are a few analysis that are more economically performed by a dedicated testing facility. GSE believes requirements for such testing should be carefully considered, and if found to be necessary, specified in terms of a particular design requirements. Some tests that GSE recommends be performed via customer's arrangement with an outside testing facility are: Direct Shear Testing (ASTM D 5321, ASTM D 6243) and Permeability/Index Flux: (ASTM D 5887).

The interface friction characteristics of GCLs, geomembranes, and/or other geosynthetic products against adjoining site materials are specific to conditions of the installation. Friction characteristics critical to design parameters are best determined by independent testing incorporating site specific materials and conditions. GSE does not control and cannot warrant specific interface friction characteristics.

9.0 MATERIAL QUALITY ASSURANCE

GSE has established strict specifications for all raw materials and finished products. The results from every test performed must fall within the acceptable limits of these specifications.

A. Raw Materials

GSE utilizes four primary types of raw materials in the production of GSE BentoLiner products: sodium bentonite, carrier woven geotextiles, carrier scrim reinforced nonwoven geotextiles and cap nonwoven geotextiles. All geotextiles used in the production of GSE BentoLiner arrive in a finished roll form. Sodium bentonite arrives in bulk rail cars or bulk trucks. Upon receipt of raw materials, GSE begins the quality assurance process.

1. Sodium Bentonite

The granular sodium bentonite utilized in GSE BentoLiner GCLs is supplied by several different bentonite producers located in the Big Horn Basin and Black Hills regions of the U.S. The bentonite producers are responsible for all aspects of mineral processing including selective mining, processing to correct gradation, adherence to internal quality control procedures, and loading into bulk truck or bulk hopper railcars for shipment to the GSE BentoLiner manufacturing plant. The bentonite is typically not modified prior to its incorporation into GSE BentoLiner, although minor changes in moisture content may occur during the shipping and manufacturing process.

GSE maintains rigid specifications for all of its bentonite suppliers and their products. Each supplier is required to certify and provide test data in the form of a Certificate of Analysis (COA) for each shipment to the GSE BentoLiner manufacturing plant. Data required on the COA includes the base clay parameters summarized on Table 1.

Table 1. Bentonite Supplier Quality Requirements

BENTONITE PROPERTY	TEST METHOD	SPECIFIED VALUE
Swell Index	ASTM D 5890	24 ml/2g minimum
Fluid Loss	ASTM D 5891	18 ml maximum
Moisture Content	ASTM D 4643	12% maximum

BENTONITE PROPERTY	TEST METHOD	SPECIFIED VALUE
Bentonite Particle Size	ASTM D 421	15% max + #20 mesh 10% max - #200 mesh

Railcar shipments of bentonite contain approximately 190,000 lb to 200,000 lb (86,000 kg to 91,000 kg), and bulk truck shipments contain approximately 60,000 lb (30,000 kg). In accordance with the guidelines specified in ASTM D 5889 "Standard Practice for the Quality Control of Geosynthetic Clay Liners", the bentonite clay is sampled for quality assurance testing at a rate of twice per railcar or at a minimum of once every 100,000 lb (45,400 kg). This sampling and testing frequency equates to an average of one test for every 100,000 ft^2 (9,300 m^2), as there is approximately one pound of clay per square foot of GCL.

2. "Carrier" Woven Geotextile

The woven geotextile is the primary support for GSE BentoLiner EC & NSL GCL products and the woven plays a roll in providing dimensional stability to the GCL. A thorough trial of every woven geotextile contemplated for use is completed prior to its acceptance. Only those woven geotextiles that consistently meet or exceed the quality requirements are used.

   a. Suppliers
   The woven geotextile is manufactured elsewhere by either an alliance partner or approved supplier, and is delivered to the GSE BentoLiner manufacturing plants in rolls.

   b. Supplier Certificates of Analysis
   GSE receives and maintains on file geotextile manufacturer certifications, certifying that the products meet the engineering specifications.

   c. Quality Inspection
   GSE randomly samples the carrier woven geotextile upon reciept and analyzes to verify material properties. If GSE's test results indicate that the woven geotextile does not meet its quality criteria, the roll is further evaluated in accordance with GSE's standards. Geotextile products will not be tagged for acceptance until it is verified that the minimum average roll values have been achieved.

3. Scrim Reinforced "Carrier" Nonwoven Geotextile

The scrim reinforced "carrier" nonwoven geotextile is the primary support for the GSE BentoLiner NWL product series and the scrim may play a roll in providing dimensional stability of the GCL. A thorough trial of every scrim reinforced nonwoven geotextile contemplated for use in GSE BentoLiner GCL product manufacturer is completed prior to its acceptance. Only those scrim reinforced nonwoven products that consistently meet or exceed established quality requirements are used.

   a. Suppliers
   The scrim reinforced nonwoven geotextile is manufactured by others elsewhere and is delivered to the GSE BentoLiner manufacturing plants in rolls.

   b. Supplier Certificates of Analysis
   GSE receives and maintains on file the manufacturer certifications, stating that the geotextiles meet or exceed the engineering specifications.

   c. Quality Inspection
   GSE randomly samples the carrier scrim reinforced nonwoven geotextile upon reciept and analyzes it to verify material properties. If GSE's test results indicate that the scrim reinforced nonwoven geotextile does not meet established quality criteria, the roll is segregated and further evluated. Geotextile products will not be tagged for acceptance until it is verified that the minimum average roll values have been achieved.

4. "Cap" Nonwoven Geotextile

The "cap" nonwoven geotextile is used in the manufacturer of all GSE BentoLiner product series. A thorough trial of every nonwoven geotextile contemplated for use is completed prior to its acceptance for the GSE BentoLiner GCL products. Only those nonwoven products that consistently meet or exceed the quality requirements are used.

a. Suppliers

The nonwoven geotextiles are manufactured by GSE or alliance partners whom are approved suppliers, and are delivered to the GSE BentoLiner manufacturing plants in rolls.

b. Supplier Certificates of Analysis

GSE receives and maintains on file manufacturer certifications, stating that the products meet or exceed engineering specifications.

c. Quality Inspection

Upon receipt, GSE randomly samples the nonwoven geotextile and analyzes to verify material properties. If GSE's test results indicate that the nonwoven geotextile does not meet its quality criteria, the roll is segregated and further analyzed. Geotextile products will not be tagged for acceptance until it is verified that the minimum average roll values have been achieved.

B. Finished GCL Products

GSE has implemented a strict and thorough manufacturing quality assurance process for all GCL products.

1. On-Line Manufacturing Quality Assurance

The quality assurance program for the finished GCL products begin during the manufacturing process.

2. Application Measurement

As each roll is being produced, application rate readings are taken throughout the production of the roll. These readings are utilized to establish the average bentonite application values for each roll and are verified by roll weight testing upon completion of the finished goods.

3. Statistical Process Control

Variables such as line rate and bentonite application have established process parameters, which vary with the particular grade of material being produced. Finished roll weight, length and width are measured and used to assure conformance to finished product specification. Process variables are adjusted in response to the minimum average roll data.

C. Post Production Quality Assurance

The finished GCL is sampled across the roll width within each lot. This sample is immediately sent to the quality assurance laboratory for finished product testing.

1. Sampling

A 2.0 ft (600 mm) by roll width [15.5 ft (4.7 m)] sample is cut for quality assurance testing at the specified frequencies listed in the data specifications sheet. The laboratory sample is labeled with the roll number, and production date. Test specimens are taken from positions across the width of the roll. The five specimen positions are defined as a constantly repeating set of locations determined by the roll number. A 1.0 ft by 1.0 ft (300 mm by 300 mm) is labeled and retained for 5 years for future reference or testing.

2. Evaluation of Results
   Samples are tested using the frequencies and procedures listed in the data specifications sheet. All data are recorded and compared to established order specifications. If materials do not meet the required GSE's minimum average values and/or the customer specifications, the manufacturing personnel are immediately notified to make the appropriate adjustments. Only products meeting GSE's minimum average values and customer's specifications will be approved for shipment to the corresponding project.

3. Reporting
   All rolls supplied for a specific project or order will be provided a manufacturing quality assurance document. This document identifies the standards on which the GSE's approval is based along with the actual test results demonstrated by the material. Each report is reviewed by quality assurance personnel, stamped, and initiated by the GSE's laboratory technician.

D. Product Shipping
   It is the GSE's policy to ship only products that have been tested and approved. All shipments are packaged according to industry's standard practices and/or customer's specifications. Only approved handling methods are used to move rolls into and out of shipping containers, please see the GSE Installation Quality Assurance Manual for more details. according to industry's standard practices and/or customer's specifications. Only approved handling methods are used to move rolls into and out of shipping containers, please see the GSE Installation Quality Assurance Manual for more details.

Appendix A: Panel and Roll Specifications

STANDARD PANEL AREA MEASUREMENTS:

Panel Dimensions:	15.50 ft wide x 150 ft long (4.72 m x 45.7m) [Excluding an estimated 1.5 in (38 mm) sacrificial textile on both edge]
Total Panel Area:	2,325 sq ft (216 sq m) [Based on 15.5 ft (4.7 m) x 150 ft rolls
Total Effective Area:	2,235 sq ft (207.6 sq m) [6 in (150 mm) longitudinal overlap, 12 in (300 mm) transverse overlap]

STANDARD ROLL SHIPPING DIMENSIONS:

Nominal Shipping Dimensions:	15.75 ft long (4.73 m) x 2 ft diameter (600 mm)
Nominal Weight (Product Specific):	2,100 - 3,000 lb (952 - 1315 kg), includes core & packaging
Core Size:	4.75 in (120 mm) I.D.
Packaging:	4 mil (0.1 mm) U.V. Resistant Polyethylene Sleeve of varying color depending upon GCL product

TYPICAL SHIPPING QUANTITIES:

Rolls Per Standard 48'Flatbed Trailer:	16 - 19 Rolls Per Load
Rolls Per Standard 40 ft (12 m) Container:	19 - 20 Rolls Per Load
Bags of Granular Bentonite:	50 lb (23 kg) bags

UNLOADING AND HANDLING EQUIPMENT:

Core Pipe and Spreader Bar:	18 ft (5.4 m) long
Straps or Chains:	2 to 4, approximately 10 ft (3 m) in length
"Stinger" Bar:	12 - 14 ft (3.6 - 4.2 m) long, base attachment designed for Forklift

All Terrain Forklift (Extendible Boom), Front-End Loader, and Excavator are just a few examples of apparatus and equipment that can be used. Other options may be fully suitable.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.

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BENTOLINER GCL PRODUCTS

INSTALLATION QUALITY ASSURANCE MANUAL

Contents

1.0 INTRODUCTION

This manual provides an overview of the GSE Installation Quality Assurance procedures consistent with industry accepted practices to ensure that the GSE BentoLiner GCL products installed will best perform for its intended purpose. In addition, all installation work will be performed in strict accordance per the customer's specifications. Please read the procedures below completely before you begin. If you need further clarification, contact the GSE Engineering Support Staff for assistance or please refer to ASTM D 6102, Standard Guide for Installation of Geosynthetic Clay Liners and ASTM D 5888, Standard Guide for Storage and Handling of Geosynthetic Clay Liners. Remember safety first and use safe practices always on every project.

2.0 UNLOADING PROCEDURES

As with all lifting or unloading operations, appropriate equipment and experienced personnel should be employed along with proper safe handling methods. The party responsible for unloading the GSE BentoLiner should contact GSE prior to shipment to determine the correct unloading methods and equipment if different from the pre-approved and specified methods as described below.

Lifting GCL rolls can typically be accomplished with by using a 2.5 in - 3.0 in (63 mm - 75 mm) outside diameter (O.D.) steel pipe (preferably solid), with a wall thickness capable of providing sufficient beam strength to support the weight of the roll, which average less than 3,000 lb (1,364 kg) and the length is approximately 18 ft (5.5 m). This core pipe is inserted through the hollow center of the GCL cardboard core. Heavy-duty slings or chains, which are approximately 10 ft (3.1 m) long, each are attached to each end of the pipe, which are then fastened to a I-beam spreader bar or a GSE approved alternative. Care should be taken to ensure that lifting chains or straps do not rub, chafe, or otherwise damage the GCL. A crane, backhoe, front-end loader or another suitable piece of construction equipment can then lift the entire assembly.

An all-terrain, extendable boom forklift, such as a Lull or Caterpillar Telehandler, can be fitted with a special, solid steel "carpet pole" or stinger, typically 14.0 ft (4.3 m) in length having an outside diameter of no more then 3.38 in (8.6 mm). The carpet pole can be inserted into the hollow cardboard core of the GCL roll.

The roll should not be fully suspended until the pole extends through the entire length of the core tube or you run the risk that the core may break creating additional handling and unloading difficulties

A properly structured and supported pole can be used to unload GCL rolls onsite. As an alternative, straps that are appropriately rated can be used as a GSE approved lifting method to unload GCL rolls. Lifting straps are supplied on every roll. Each GCL roll label contains roll weight information that should be consulted in determining appropriate lifting equipment and factors of safety.

The CQA inspector or owner's representative should verify that only appropriate handling equipment is utilized, i.e. equipment that does not pose any danger to personnel or undue risk of damage or deformation to the liner material.

3.0 STORAGE

While stored GCL needs to be kept dry and away from potential flooding or high storm runoff. On the job site storage methods include; storing the rolls tarped on pallets; storing the rolls under roof in a clean, dry protected area; and storing the rolls on a flat, dry, stable surface suitably covered with protective waterproof tarps. Rolls can be stacked as long as it is done in a manner that prevents them from rolling, shifting, or spontaneously moving. Maximum roll height should be determined by CQA personnel, but never more than can be safely managed considering site conditions, equipment and personnel.

Stored rolls should be tarped and remain in their original, unopened plastic shipping sleeves to prevent damage and undue prehydration prior to installation. Any rolls that come in contact with water should be examined by CQA or an owner's representative prior to installation. Prehydrated or physically damaged rolls should be set aside for further examination to determine the plausibility of repair or need to replace.

4.0 SUBGRADE PREPARATION

The surface upon which the GSE BentoLiner is installed should be smooth and free of wheel ruts, debris, roots, sticks, and rocks larger than 1.0 in (25 mm). Site specific compaction requirements should be followed in accordance with the project plans and specifications. At a minimum, the site should be smooth rolled the level of compaction such that installation equipment and other construction vehicles traffic does not cause rutting greater than 1.0 in (25 mm) deep. Furthermore, all protrusions extending more than 0.5 in (12 mm) from the subgrade shall be removed, crushed, or pushed into the subgrade.

In applications where the product is the sole barrier, subgrade surfaces consisting of gravel or granular soils may not be acceptable due to their large void content. For these applications, the subgrade shall be greater than 80% fines and contain no particles larger than 1 in (25 mm). In all high head, water containment applications, i.e. maximum water depth greater than 1 ft (30.5 cm), GSE recommends the use of a coated or laminated GCL such as GSE BentoLiner CNSL.

Immediately prior to deployment of the GCL, the subgrade shall be final compacted to fill in any remaining voids or desiccation cracks and to ensure that no sharp irregularities or abrupt elevation changes exist greater than 1.0 in (25 mm). The surfaces to be lined shall be maintained in this condition and free of standing water. GCL can be deployed on a frozen subgrade, if the subgrade would meet all the conditions as previously outlined if unfrozen.

The subgrade surface and preparation should be inspected and certified by the CQA inspector prior to GSE BentoLiner placement. Upon approval by the CQA inspector, it is the geosynthetic installer's responsibility to communicate to the engineer of any changes in the condition of the subgrade that might render it out of compliance, with any of the requirements of the project specification or ASTM Standard D 6102.

5.0 DEPLOYMENT

As rolls are selected for deployment, the labels should be removed and recorded by the installer, along with any other pertinent information. The rolls should only be transported from the storage area using approved lifting equipment as described in section 2.0. The roll is supported during deployment, so that the fabric designated as the upper surface faces out, away from the installation vehicle. The free end of the roll can then be secured, while the vehicle supporting the roll slowly backs away, deploying the GCL as it moves. Alternatively, the free end can be manually pulled across an area to be lined by the installation crew while the equipment simply suspends the roll. Equipment traveling directly on GCL for deployment of overlying geosynthetics should be limited to lightweight ATVs maximum bearing capacity of 8.0 psi (34.5 kPa) or equivalent.

Successive panels are overlapped according to project specifications and/or within the overlap lines stenciled on the upper surface of each panel. Wherever possible, installation of GSE BentoLiner should begin at high elevation and proceed to low elevation. This allows any precipitation to accumulate and drain quickly without adversely affecting the GCL. The edges of exposed GCL should be weighted down with sandbags or equivalent ballast to prevent uplift in the event of substantially strong winds.

Only as much GSE BentoLiner as can be fully covered by the end of the day should be deployed or such amount that can be covered in a reasonably short time in the event of heavy precipitation. When GCL is being installed under a geomembrane, the leading edge should be folded back under the membrane at the end of the construction day. Temporary ballasting, such as sandbags, to prevent uplift and the infiltration of runoff water should secure the leading edge of the membrane.

GSE BentoLiner panels should be installed in a relaxed condition, free of wrinkles and folds. When fitting the product into small areas or around construction details, use a sharp utility or hook blade knife to cut the liner to the appropriate dimensions. Adjacent panels should overlap at the edges as described in section 6.0 below.

6.0 OVERLAPS & SEAMS

Unless specified differently adjacent lengthwise (longitudinal) seams should be overlapped a minimum of 6.0 in (150 mm). Granular bentonite should be used to augment all overlapped seams. Loose granular bentonite is placed between ajoining panels into the overlap area at a rate of 0.25 lb per linear foot (350 g per linear meter) of seam. Widthwise overlaps at the butt ends of rolls should be a minimum 12.0 in (300 mm). Seams should be shingled in a down slope direction, so that water flows across the seam from upslope sheet to the down slope sheet.

When the liner is cut to fit in small areas, i.e. into corners or around structures, adjacent panels should overlap a minimum of 1.0 ft (300 mm), adding abundant loose granular bentonite into the overlapped areas.

7.0 ATTACHMENT DETAILS

The product should be installed around penetrations, structures, pipes, structures and other appurtenances according to the contract drawings. GSE BentoLiner may be secured to appurtenances by use of a stainless steel batten or clamps, mechanical fasteners, or other appropriate device if necessary to minimizing movement. The use of additional granular bentonite or bentonite paste is recommended to maximize the seal around structures or protuberances.

8.0 ANCHORING

GSE BentoLiner is typically anchored in a trench around the perimeter of the lined area, which provides the required pullout resistance. In most cases, GCL can be anchored in the same trench as any adjacent geosynthetic liner components (if used). Dimensions and locations of the trench should be provided in the project drawings. Alternately, the material may be anchored by deploying additional run out of material, a minimum of 3.0 ft (1.0 m), past the slope crest and toe. Typically GCL should not be deployed in tension. The force holding the GCL in place should be provided by friction between the GCL and adjacent materials

Steps should be taken to ensure that precipitation does not accumulate in the trench prior to backfilling. The GCL should only cover the front face and bottom of the anchor trench. The trench should be back filled and properly compacted prior to placing cover soil on the slopes.

9.0 REPAIRS

In the event an area of GSE BentoLiner becomes damaged, torn, or punctured during installation, the affected area should be repaired. On relatively level surfaces, the damaged area should be covered with a separate piece of GSE BentoLiner extending at least 12.0 in (300 mm) beyond the damaged area in every dirRection. Granular bentonite should be used to augment the patch overlays as is required for all other seams. Patches on side slopes can be temporarily secured with construction adhesive such as Liquid Nails or tape.

Areas that are exposed to standing water or excess precipitation with resulting bentonite hydration, typically as defined as greater than 30% moisture, prior to soil covering, should be examined for bentonite displacement and damage by subsequent activities. If it is determined that the GCL has been hydrated and damaged, the GCL should be covered with new material over the affected area or removed and replaced. All GSE BentoLiner material exposed to hydrocarbon fuels, chemicals, pesticides, non-compatible leachates, or other harmful liquids during the installation should be removed and replaced with non-affected material.

10.0 INSPECTION

Prior to soil covering the panels, penetrations and any other details should be visually inspected to ensure full coverage and proper orientation. Once the installed GSE BentoLiner material has been approved the next layer of geosynthetics or soil covering may be applied.

11.0 COVER MATERIAL

Only the amount of GSE BentoLiner GCL that can be anchored, inspected, and covered the same day should be installed. In cases where the GSE BentoLiner GCL is the sole hydraulic barrier, the GCL should be covered with the specified thickness of cover soil (a minimum 1.0 ft (300 mm)) immediately following deployment. Where GSE BentoLiner GCL is used in conjunction with other membrane components, it should be covered with the geomembrane after placement, as soon as possible to protect it from the climatic elements.

When a geomembrane is being installed over the GCL, the leading edge of the GSE BentoLiner should be folded back under the geomembrane so that the geomembrane extends beyond the GCL a minimum of 2.0 ft (600 mm). The leading edge of the membrane should subsequently be weighted with sand bags or suitable ballast to safeguard against wind uplift and to prevent runoff water from undermining the liner.

When GSE BentoLiner is used with no overlying geomembrane, the soil cover should be placed within 2.5 ft (800 mm) of the leading edge of the GCL. The leading edge can then be covered with plastic sheeting that is folded under the exposed edge approximately 12.0 in (300 mm). Sand bags or suitable ballast should be placed on the liner to hold the plastic in place and to partially confine the GCL. The next morning the ballast and the plastic can be removed and subsequent rolls of GCL placed as described in section 5.0.

Cover soil placed directly on GCL should have a gradation to not damage or puncture the GCL. Cover soil should be free of all rocks greater than 0.75 in (18 mm) diameter, sharp or angular objects, sticks, roots or debris. Appropriate placement methods should be used at all times to protect the GCL. Compatibility of GSE BentoLiner GCL with the soil should be verified. Cover material should be pushed across the seams from top to bottom to prevent the cover material from lodging between the overlapped panel seams.

12.0 HYDRATION & ACTIVATION

In applications where the product is used as the sole hydraulic barrier, such as secondary containment, the GCL must first be hydrated with fresh water. Non-aqueous chemicals will not activate the bentonite. Therefore, bentonite hydration via rainwater or sprinkler and irrigation is necessary. When hydrated, the GSE BentoLiner is an excellent barrier to hydrocarbon fuels, fertilizers, and other such chemicals.

Only after the cover material has been placed should the GSE BentoLiner be allowed to hydrate. Once hydration has occurred no vehicles should be allowed to traffic the area directly above the GCL, unless minimum 1.0 ft (300 mm) separation exists between the GCL and the vehicle to adequately distribute the vehicle load. This should be increased to a minimum of 2.0 ft (600 mm) in high traffic areas such as roadways.

Periodic inspection of the liner to ensure proper coverage and adequate moisture content is recommended when GSE BentoLiner is used alone under a minimum 1.0 ft (300 mm) depth of cover soil. In arid regions, it may be necessary to irrigate the containment area, at a predetermined interval and/or a laminated or coated GCL used and deployed with the plastic component up in order to minimize dessication and wet – dry cycling.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

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