

July 20, 2016

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Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

Attention: Karel Detterman

Subject: Report of Soil Remediation and Soil Sampling Activities Niles Canyon Railway, Sunol Depot 6 Kilkare Road, Sunol, CA 94586

Ladies and Gentlemen:

Attached please find a copy of the **Report of Soil Remediation and Soil Sampling Activities** prepared by Gribi Associates. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Very truly yours,

Darmas Mytor

Douglas W. Debs Hazmat Manager Pacific Locomotive Association DBA Niles Canyon Railway mailing address: P.O. Box 515, Sunol, CA 94586-0515 cell 650-704-1487



July 20, 2016

Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Attention: Karel Detterman, PG

Subject: Report of Soil Remediation and Soil Sampling Activities Niles Canyon Railway, Sunol Depot 6 Kilkare Road, Sunol, California

Ladies and Gentlemen:

Gribi Associates is pleased to submit this report on behalf of Niles Canyon Railway providing results of soil remediation and sampling of oil-impacted soil along a rail track area at the Niles Canyon Railway, Sunol Depot site in Sunol, California (Site)(see Figure 1 and Figure 2).

1.0 BACKGROUND

The Niles Canyon Railway is operated by the Pacific Locomotive Association and is classified as a museum railroad. The current railroad tracks present at the Site were laid in approximately 1987, and the railroad currently provides tourist rides between Sunol and Niles in Fremont.

From June 7 to June 14, 2014, oil from a steam locomotive dripped onto the railroad tracks immediately north of the Niles Canyon Railway, Sunol Depot. The oil consisted primarily of No 6 Fuel Oil, with a minor amount of Chevron Journal Bearing Oil. The volume of the spill was estimated to be less than 5 gallons.

On July 1, 2014, the Pacific Locomotive Association (dba Niles Canyon Railway) submitted a brief remediation workplan for the Site proposing the following tasks:

- 1. Document spill area with photos. (Inspector Dale Klettke has already done this for ACDEH.)
- 2. Remove surface oil with oil-sorbent pads. (Steps 1 and 2 have been done, per e-mail authorization 4:21pm June 27 2014 from Paresh Katri, ACDEH.)
- 3. Remove oil-soaked ballast (rocks and dirt) around affected railroad ties. Dig out with shovel sand/or power equipment, if necessary.
- Put oil-soaked rocks & dirt in 55-gallon open-top steel drum. Label as "Solid Oily Waste" hazardous waste. Seal drum. (Our hazwaste transportation & disposal contractor is Safety-Kleen.)
- 5. Document with photos.
- 6. Backfill holes with clean ballast (crushed rock, ~2" average size).
- 7. Tamp ballast down against ties for good track support.
- 8. Final photo documentation.

This remediation plan was approved by Alameda County Environmental Health on July 9, 2014.

2.0 DESCRIPTION OF REMEDIATION AND VERIFICATION SAMPLING ACTIVITIES AND RESULTS

2.1 Description of Remediation Activities

On July 30, 2014, Mr. Jim Gribi, PG, of Gribi Associates was onsite to document remediation activities and conduct verification soil sampling. Site photographs are included in Attachment A.

The spill area extended approximately 46 feet along the railroad tracks. The rail ties are spaced at two-foot intervals, with approximately one foot of ballast between the ties. Thus, the spill area comprised ballast between approximately 23 railroad ties. For the easternmost three ties, it was noted that the ballast rock extended from surface downward below the railroad ties, whereas the remaining 20 ties had a surface layer of primarily dirt with some ballast down to the bottom of the ties, followed by ballast rock below the ties.

Volunteers for the Niles Canyon Railway removed soil and ballast to the extent possible using a jackhammer and shovels. Removed soil, which amounted to four filled drums, was shoveled directly into 55-gallon DOT-approved drums, which were labelled and moved to a railroad



storage yard. The four drums were subsequently disposed of at Clean Harbors in San Jose. A copy of the disposal manifest is included in Attachment B.

In late November 2015, the area between the railroad track and the depot building was raised six to eight inches and paved with asphalt. Also, to keep the new fill and asphalt from slumping onto the track, a partly-buried treated-timber retaining wall was installed between the track and the raised station platform. This new "station platform" is now level with the top of the rails. The spill site, which was on the adjacent track, was not affected by the new station platform.

2.2 Verification Soil Sampling

Following completion of remediation activities, six soil samples, SS-1 through SS-6, were collected between the railroad ties at approximately 10-foot intervals along the length of the spill area (see Figure 2). Soil samples SS-1 through SS-5 consisted primarily of silty soil with some small ballast rocks. The SS-6 sample consisted entirely of ballast rocks comprising angular 1 to 1-1/2 inch rocks with no dirt or other materials. The silty soils in samples SS-1 through SS-5 exhibited minor staining and moderate hydrocarbon (primarily diesel) odors. The ballast rocks in the SS-6 sample were coated with hydrocarbon staining and exhibited moderate hydrocarbon odors.

The samples were collected at the base of the excavated areas, which amounted to the approximate bottom of the railroad ties, approximately 6 inches below the surface of the railroad track bed. Soil samples were collected in brass sleeves using hand tools. Each brass sleeve was capped, labelled and placed in an iced cooler for transport to the analytical laboratory under formal chain of custody.

The six soil samples were analyzed for the following parameters:

- USEPA 8015C Total Extractable Petroleum Hydrocarbons (TPH as Gas, Diesel, Motor Oil)
- USEPA 8021B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)

All analyses were conducted by Sunstar Labs, a California-certified environmental laboratory, with standard turnaround time on results. Results of laboratory analyses are summarized in Table 1. The laboratory report and chain of custody records are included in Attachment C.



Table 1 SOIL LABORATORY ANALYTICAL RESULTS Niles Canyon Railway, Sunol, California												
Sample	Sample Sample Concentration (milligrams per kilogram, mg/kg)											
ID	Depth	TPH-D	TPH-MO	TPH-G	В	т	E	x				
SS-1	0.5 ft	470	2,800	<10	<0.005	<0.005	<0.005	<0.010				
SS-2	0.5 ft	600	4,200	<10	<0.005	<0.005	<0.005	<0.010				
SS-3	0.5 ft	170	1,300	<10	<0.005	<0.005	<0.005	<0.010				
SS-4	0.5 ft	160	910	<10	<0.005	<0.005	<0.005	<0.010				
SS-5	0.5 ft	190	1,000	<10	<0.005	<0.005	<0.005	<0.010				
SS-6	0.5 ft	1,700	1,700 12,000 <10 <0.005 <0.005 <0.005 <0.010									
ESL, Leachin	ESL, Leaching to GW 570 NL 770 0.044 2.9 1.4 2.3											
ESL, Direct E	Exposure	1,100	14,000	3,900	1.0	4,600	22	2,400				

Table Notes

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

- B = Benzene
- T = Toluene
- X = Xylenes
- <10 = Not detected above the expressed value

ESL = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, February 2016 (Rev 3).

2.3 Discussion of Verification Soil Sampling Results

Laboratory analytical results for the six soil samples showed hydrocarbon levels which were generally below both the direct exposure and the leaching to groundwater Environmental Screening Levels (ESLs), except for the SS-6 soil sample. However, the SS-6 sample consisted of ballast rock and, as such, it is not clear that the result for the SS-6 sample is truly representative. According to Sunstar Labs, normal fine-grained soil samples, such as SS-1 through SS-5, are mixed and, to a certain extent, homogenized to get a representative sample for analysis. For a rock sample, such as SS-6, a piece, or a few pieces, are chipped off of the surface of the rock and mechanically ground up to make a fine-grained sample for analysis. In the latter case, with rock, pieces chipped off of the hydrocarbon-stained surface would tend to have a higher concentration of hydrocarbons, by weight, and would not be representative in terms of milligrams contaminant per kilograms of rock matrix.



On August 18, 2014, the draft *Report of Soil Remediation Activities* was submitted to Alameda County Department of Environmental Health (ACEH). On February 6, 2015, ACEH issued a letter providing technical comments relative to the State Water Resources Control Board's *Low Threat Underground Storage Tank Case Closure Policy* (LTCP, 2012) and requesting: (1) An evaluation of Groundwater Media-Specific Criteria relative to stormwater runoff, groundwater flow direction, and preferential migratory pathways/sensitive receptors; and (2) The collection and laboratory analysis of two soil samples (0-5 feet bgs and 5-10 feet bgs) in the vicinity of soil sample SS-2 in order to evaluate the Direct Exposure To Outdoor Air Media-Specific Criteria.

3.0 EVALUATION OF GROUNDWATER MEDIA-SPECIFIC CRITERIA

In accordance with the ACEH letter, Gribi Associates evaluated LTCP Groundwater Media Specific Criteria relative to stormwater runoff, groundwater flow direction, and preferential pathways/sensitive receptors.

- a) <u>Stormwater Runoff</u>: There are no stormwater catch basins or outfalls on the Site or in the site vicinity.
- b) <u>Groundwater Flow Direction</u>: A review of both ACEH and Geotracker databases indicates a generally southwesterly groundwater flow direction in the site vicinity, based on the following data (see Figure 3):
 - Former Sunol Chevron Station, 11474 Main Street, 850 feet east from Site. Three groundwater measurement events occurred in the early 1990s, two showing a southwesterly flow direction and one showing a northwesterly flow direction. Groundwater depth was approximately 25 to 30 feet in depth.
 - 2. Sunol Water Department Facility, 505 Paloma Way, 1,825 feet southeast. One groundwater monitoring event in 1992 and the closure summary in 2012 indicate a southwesterly groundwater flow direction.
- c) <u>Preferential Pathway and Sensitive Receptor Study:</u>
 - Surface water: Sinbad Creek, an intermittent stream, is located approximately 100 feet northeast (upgradient) from the Site, and Arroyo de la Laguna/Alameda Creek flows east-to-west approximately one-quarter mile southeast (crossgradient) and one-half mile southwest (downgradient) from the Site (see Figure 3).
 - 2. Well survey: Gribi Associates requested well records for water supply wells within a 1,500-foot radius from the Site from the California Department of Water Resources (CDWR) and from Zone 7 Water Agency (Zone 7). The CDWR records include two irrigation wells (identified as "1" and "2" on Figure 3), located more than 1,200 feet northeast from the Site at 11735 Foothill Boulevard. Zone 7 records included these



two irrigation wells, one irrigation well (identified as "3" on Figure 3, located approximately 850 feet east from the Site at 199 Bond Street, and one well of unknown use (identified as "4" on Figure 3), located approximately 1,450 feet west from the Site at an unknown address (Zone 7 does not have a well log for this well).

4.0 DESCRIPTION OF SOIL BORING ACTIVITIES AND RESULTS

In accordance with the February 5, 2015 ACEH letter, one soil boring, B-1, was drilled and sampled to evaluate Site conditions relative to the LTCP Direct Contact and Outdoor Air Exposure Criteria. Soil sampling was conducted by Gribi Associates personnel on November 9, 2015. All sampling was conducted using direct push drilling equipment, and all activities were conducted in accordance with standard sampling guidelines and protocols.

4.1 Prefield Activities

Prior to beginning field activities, a drilling permit was obtained from Zone 7 Water Agency. A copy of the drilling permits provided as Attachment D. In addition, prior to implementing field activities, the drilling location was marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, prior to initiating drilling activities, a Site Safety Plan will be prepared, and a tailgate safety meeting will be conducted with all site workers.

4.2 Location of Soil Sample

The location of the shallow soil boring B-1 is shown on Figure 2. Boring B-1 was located on the railroad track inside the spill area, approximately 0.5 feet south of the previous sample SS-2.

4.3 Drilling and Soil Sampling of Investigative Boring

Boring activities were conducted by Greggs Drilling (C-57 License No. 485165) using a direct push coring equipment. Boring B-1 was cored to approximately 6.0 feet in depth, where hard bedrock and coring refusal was encountered. Continuous soil cores were collected from boring B-1 at depths of approximately 2.5 feet and 5.5 feet below surface in a clear plastic liner tube, nested inside a stainless steel core barrel. After the core was brought to the surface the soil-filled liner tube was exposed for visual examination. The soil was then examined, logged, and field screened for hydrocarbons by a qualified registered geologist using sight and smell. The selected sample interval was then collected by cutting the sample and liner tubing to the desired length and the ends of the selected sample were quickly wrapped with Teflon sheets



and capped with plastic end caps. The sealed soil sample was then labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. After sampling, the boring was grouted to just below the rail bed. There was insufficient soil cuttings to save for offsite disposal.

4.4 Laboratory Analysis of Soil Samples

Two soil samples were analyzed for the following parameters:

- EPA Method 8015 TPH-Diesel/Motor Oil
- USEPA 8260B TPH-Gasoline, BTEX, Oxygenates
- USEPA 8270-sim Polynuclear Aromatic Hydrocarbons (PAHs) with Naphthalene

All analyses were conducted by Sunstar Laboratories, a California-certified analytical laboratory, with standard turnaround on results.

4.5 Results of Soil Boring Investigation

Soils in boring B-1 consisted of railroad ballast down to approximately 2.5 feet in depth, followed by brown hard gravelly sandstone to approximately 6.0 feet in depth (coring refusal). No unusual odors or staining was noted in native soils below 2.5 feet in depth. Also, no groundwater was encountered in the boring.

Soil laboratory analytical results are summarized in Table 2, and the laboratory data report is included in Attachment C.



	Table 2										
	SOIL LABORATORY ANALYTICAL RESULTS										
	Niles Canyon Railway, Sunol, California										
Sample Sample Concentration (milligrams per kilogram, mg/kg)											
ID	Depth	TPH-D	TPH-MO	TPH-G	В	т	E	x	Оху	Naphth	РАНа
B-1-2.5	2.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ND	<0.005	ND
B-1-5.5	5.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ND	<0.005	0.0057 Acenaphthylene 0.015 Benzo(a)anthracene 0.011 Benzo(b)fluoranthene 0.007 Benzo(g,h,i)perylene 0.010 Benzo(a)pyrene 0.012 Chrysene 0.025 Fluoranthene 0.010 Indeno(1,2,3-cd)pyrene 0.021 Phenanthrene 0.036 Pyrene (0.0106 B(a)P Equivalents)
ESL, Direct	Exposure	1,100	14,000	3,900	1.0	4,600	22	2,400	Various	14	NL Acenaphthylene 2.9 Benzo(a)anthracene 2.9 Benzo(b)fluoranthene NL Benzo(g,h,i)perylene 0.29 Benzo(a)pyrene 260 Chrysene 30,000 Fluoranthene 2.9 Indeno(1,2,3-cd)pyrene NL Phenanthrene 23,000 Pyrene
LTCP, Table	e 1				8.2		89			45	0.68 B(a)P Equivalents

Table Notes

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

X = Xylenes

Oxy = OXY = Oxygenates, includes Methyl ter-Butyl Ether (MTBE), Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).

Naphth = Naphthalene

PAHs = Polynuclear Aromatic Hydrocarbons, includes approximately 15 individual compounds.

<10 = Not detected above the expressed value

B(a)P Equivalents = Benzo(a)pyrene toxicity equivalents (Florida Department of Environmental Protection Benzo(a)pyrene Conversion Table. ESL = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, February 2016 (Rev 3).

LTCP, Table 1 = Low-Threat Underground Storage Tank Case Closure Policy, Table 1 Concentrations of Petroleum Constituents in Soil that Will Have No Significant Risk of Adversely Affecting Human Health.



5.0 CONCLUSIONS AND RECOMMENDATIONS

Results from post-remediation verification soil sampling and subsequent soil boring sampling clearly demonstrate that the fuel oil spill on the Niles Canyon Railroad tracks did not migrate a significant distance downward. This is due to (1) the immobile nature of the fuel oil itself, and (2) the occurrence of hard sandstone bedrock at shallow depth beneath the subject railroad tracks.

Relative to potential risks, it is clear that the residual fuel oil range hydrocarbons in shallow ballast, which have mostly been removed, do not pose a significant risk to human or environmental receptors. This conclusion is drawn from the following Site conditions: (1) The Site is almost completely unpaved, with no stormwater catch basins or runoff drainages; (2) The nearest surface water body, Sinbad Creek, is located approximately 100 feet away from the Site; (3) There are no nearby water supply wells; and (4) The residual hydrocarbon-impacted soil is located in an area, below railroad tracks, that is not expected to change use any time in the near future.

Based on these conclusions, we request that regulatory closure be granted for this Site.

We appreciate the opportunity to present this report for your review. Please call if you have questions or require additional information.

Very truly yours,

James E. Gribi Registered Geologist California No. 5843



c Mr. Doug Debs, Niles Canyon Railway

Enclosures



FIGURES









ATTACHMENT A

SITE PHOTOS





VIEW OF SOIL EXCAVATION AND REMOVAL ACTIVITIES



VIEW OF SOIL EXCAVATION AND REMOVAL ACTIVITIES



VIEW OF SOIL EXCAVATION AND REMOVAL ACTIVITIES



VIEW OF COMPLETED EXCAVATION, LOOKING EAST. SUNOL DEPOT IS ON FAR RIGHT EDGE OF PHOTO.



VIEW OF EXCAVATED TRACKS LOOKING WEST. BALLAST-ONLY AREA IS ON LOWER SIDE OF PHOTO, AND DIRT BALLAST AREA IS ON MIDDLE AND UPPER SIDE OF PHOTO.



VIEW OF EXCAVATED TRACKS LOOKING SOUTHWEST. NOTE THREE OF FOUR FILLED SOIL DRUMS PRESENT ADJACENT TO EXCAVATED TRACKS AREA.

NILES CANYON RAILWAY SUNOL, CALIFORNIA



ATTACHMENT B

SOIL DISPOSAL MANIFEST



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14. Special Handling Instruction A HR EMERGER SK AUTHOR IZEI 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the of I certify that the waste mini Generators/Offeror's Printed/Type 16. International Shipments Transporter signature (for expor 17. Transporter Acknowledgment Transporter 2 Printed/Typed Nan Transporter 2 Printed/Typed Nan 18. Discrepancy 18a. Discrepancy Indication Space	Is and Additional Information	TSD a SJ -1759 (SAFETY) <u>CENSED SUBSEO</u> declare that the contents of this oper condition for transport acc form to the terms of the attache to CFR 262.27(a) (if I am a larg	GISSING KLEEN) UENT CAR s consignment are cording to applicab d EPA Acknowled ge quantity genera Signat Signat Signat	RIERS AS N fully and accurately deele le international and natiigment of Consent. tor) or (b) (if I am a smaller Port of ent Date leaving rre Residue Manifest Reference I	ECE 230 Scribed above I onal governme Il quantity gene ry/exit: g U.S.: Number:	Dy the proper shintal regulations.	ipping name, If export ship	and are class oment and I ar Month	ified, packa n the Prima Day Day Full Rejec	ged, ry Year Year tion
14. Special Handling Instruction 24 HR EMERGEN SK AUTHOR IZEI 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the c I certify that the waste mini Generator's/Offeror's Printed/Typ 16. International Shipments Transporter signature (for expor 17. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan 18. Discrepancy 18a. Discrepancy 18b. Alternate Facility (or General Facility's Phone:	Is and Additional Information	TSD & SJ -1750 (SAFETY) <u>CENSED SUBSEQ</u> declare that the contents of this oper condition for transport acc form to the terms of the attache 40 CFR 262.27(a) (if I am a larg	GISSING -KLEEN) UENT CAR s consignment are cording to applicab de EPA Acknowled ge quantity genera Signat Signat Signat	Image: Subsection of Consent. fully and accurately deele international and natigment of Consent. for or (b) (if I am a smaller Port of ent Date leaving re Image: Residue Manifest Reference	ECE 230 scribed above onal governme Il quantity gene ry/exit: g U.S.:	Partial Reje	ipping name, If export ship	and are class ment and I ar Month	ified, packa n the Prima Day Day Day	ged, ry Year Year tion
14. Special Handling Instruction 24 HR EMERGEN SK AUTHOR IZEN 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the o I certify that the waste mini Generator's/Offeror's Printed/Type 16. International Shipments Transporter signature (for export 17. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan 18. Discrepancy 18a. Discrepancy Indication Space 18b. Alternate Facility (or General Facility's Phone: 18c. Signature of Alternate Facility	Is and Additional Information	TSD & SJ -1750 (SAFETY <u>CENSED SUBSEQ</u> declare that the contents of this oper condition for transport acc form to the terms of the attache 40 CFR 262.27(a) (if I am a larg	GOOGRAFIC	RIERG AS M fully and accurately det le international and nati gment of Consent. tor) or (b) (if I am a sma ure Port of ent Date leavin re re Residue Manifest Reference	ECE 930 scribed above i onal governme Il quantity gene ry/exit: g U.S.:	by the proper shintal regulations.	pping name, If export ship	and are class ment and I ar Month	ified, packen n the Prima Day Day J Full Reject	ged, ry Year Year tion
14. Special Handling Instruction 24 HR EMERGEN SK AUTHOR IZEN 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the o I certify that the waste mini Generator's/Offeror's Printed/Tyg 16. International Shipments Transporter signature (for expor 17. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan 18. Discrepancy 18a. Discrepancy 18b. Alternate Facility (or Genera Facility's Phone: 18c. Signature of Alternate Facilit 19. Hazardous Waste Report Mar 1.	Is and Additional Information	TSD & SJ -1759 (SAFETY <u>CENSED SUBSER</u> declare that the contents of this oper condition for transport acc form to the terms of the attache 40 CFR 262.27(a) (if I am a larg	GISSIEN KLEEN) MENT CAR s consignment are cording to applicable de EPA Acknowled ge quantity genera Signatu Signatu Signatu Signatu Signatu Signatu Signatu Signatu	IRIERS AS M fully and accurately det le international and nati gment of Consent. tor) or (b) (if I am a sma ure Port of ent Date leavin re re Residue Manifest Reference I d recycling systems)	ECE 930 scribed above onal governme Il quantity gene ry/exit: g U.S.: Number:	Partial Reje U.S. EPA ID Nu	ipping name, If export ship	and are class ment and I ar Month	ified, packe n the Prima Day Day Day	ged, ry Year Year tion
14. Special Handling Instruction 24 HR EME RGET SK AUTHOR IZET 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the o I certify that the waste mini Generator's/Offeror's Printed/Tyg 16. International Shipments Transporter signature (for expor 17. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan 18. Discrepancy 18a. Discrepancy 18a. Discrepancy Indication Space 18b. Alternate Facility (or Genera Facility's Phone: 18c. Signature of Alternate Facilit 19. Hazardous Waste Report Mar 1. 20. Designated Facility Owner or	Is and Additional Information	TSD & SJ -1759 (SAFETY <u>CENSED SUBSER</u> declare that the contents of this oper condition for transport acc form to the terms of the attache 40 CFR 262.27(a) (if I am a larg	GISSIEN KLEEN) LENT CAR s consignment are cording to applicable de EPA Acknowled ge quantity genera Signatu Sign	Aligned Action of the second sec	EDE 930 scribed above onal governme Il quantity gene ry/exit: g U.S.: Number:	If Y by the proper shintal regulations. prator) is true. Image: Second structure Image: Second structure	ipping name, If export ship	and are class ment and I ar Month	ified, packe n the Prima Day Day Day	ged, ry Year Year tion
14. Special Handling Instruction A HR EME ROES SK AUTHOR IZEL 15. GENERATOR'S/OFFERO marked and labeled/placar Exporter, I certify that the or I certify that the waste mini Generators/Offeror's Printed/Type 16. International Shipments Transporter signature (for expor 17. Transporter Acknowledgment Transporter 1 Printed/Typed Nam Transporter 2 Printed/Typed Nam 18. Discrepancy 18a. Discrepancy Indication Space 18b. Alternate Facility (or General Facility's Phone: 18c. Signature of Alternate Facilit 19. Hazardous Waste Report Mar 1. 20. Designated Facility Owner or Printed/Typed Name	Is and Additional Information	TSD & B.J -1759 (SAFETY <u>CENSED SUBSER</u> declare that the contents of this oper condition for transport acc form to the terms of the attache 40 CFR 262.27(a) (if I am a larg Type Type declare that the content of the attacher of hazardous materials covered	GSS 925 -KLEEN) <u>UENT CAR</u> s consignment are cording to applicable de EPA Acknowled ge quantity genera Signatu Signatu Signatu - - - - - - - - - - - - -	INTERS AS M INTERS AS M fully and accurately dea le international and nati gment of Consent. tor) or (b) (if I am a sma re Port of ent Date leavir re Residue Manifest Reference I d recycling systems) except as noted in Item e	ECESS scribed above for a governme I quantity gene ry/exit: g U.S.: Number: Number: 18a	Partial Reje	ipping name, If export ship	and are class ment and I ar Month	ified, packa n the Prima Day Day	ged, ry Year Year tion Year

GENERATOR'S INITIAL COPY

ATTACHMENT C

LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORDS





PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

07 August 2014

Jim Gribi Gribi Associates 1090 Adam Street, Suite K Benicia, CA 94510 RE: Niles Canyon Railway

Enclosed are the results of analyses for samples received by the laboratory on 07/31/14 08:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Running Crane

Katherine RunningCrane Project Manager



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	08/07/14 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	T141500-01	Soil	07/30/14 11:30	07/31/14 08:52
SS-2	T141500-02	Soil	07/30/14 11:35	07/31/14 08:52
SS-3	T141500-03	Soil	07/30/14 11:40	07/31/14 08:52
SS-4	T141500-04	Soil	07/30/14 11:43	07/31/14 08:52
SS-5	T141500-05	Soil	07/30/14 11:50	07/31/14 08:52
SS-6	T141500-06	Soil	07/30/14 11:55	07/31/14 08:52

DETECTIONS SUMMARY

Sample ID: SS-1	Laboratory ID:		T141500-01		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
C13-C28 (DRO)	470	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	2800	10	mg/kg	EPA 8015C	
Sample ID: SS-2	Labor	ratory ID:	T141500-02		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
C13-C28 (DRO)	600	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	4200	10	mg/kg	EPA 8015C	
Sample ID: SS-3	Labor	ratory ID:	T141500-03		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
C13-C28 (DRO)	170	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	1300	10	mg/kg	EPA 8015C	

SunStar Laboratories, Inc.

Katherine RunningCrane



Gribi Associates	Project: Niles Can	yon R	lailway		
1090 Adam Street, Suite K	Project Number: [none]				Reported:
Benicia CA, 94510	Project Manager: Jim Gribi				08/07/14 16:58
Sample ID: SS-4	Laboratory	ID:	T141500-04		
	Repor	ting			
Analyte	Result L	imit	Units	Method	Notes
C13-C28 (DRO)	160 10 mg/kg EPA 8		EPA 8015C		
C29-C40 (MORO)	910	10	mg/kg	EPA 8015C	
Sample ID: SS-5	Laboratory	ID:	T141500-05		
	Repor	ting			
Analyte	Result L	imit	Units	Method	Notes
C13-C28 (DRO)	190	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	1000	10	mg/kg	EPA 8015C	
Sample ID: SS-6	Laboratory	ID:	T141500-06		
	Repor	ting			
Analyte	Result L	imit	Units	Method	Notes
C13-C28 (DRO)	1700	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	12000	100	mg/kg	EPA 8015C	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Proj Project Numl Project Manaş	ect: Niles per: [none ger: Jim C	Canyon Ra e] Gribi	ailway			Reported 08/07/14 16	l: 5:58
	T1415	SS-1 500-01 (S	Soil)					
Analyte Res	Reporting ult Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	SunStar L	aborato	ries, Inc.					
Extractable Petroleum Hydrocarbons by 801	5C							
C6-C12 (GRO) N	ID 10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C	
C13-C28 (DRO) 4	70 10		"	"	"	"	"	
C29-C40 (MORO) 28	00 10	"	"	"	"	"	"	
Surrogate: p-Terphenyl	102 %	65-	-135	"	"	"	"	
Volatile Organic Compounds by EPA Method	l 8021B							
Benzene N	ID 5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B	
Toluene N	ID 5.0	"	"	"	"	"		
Ethylbenzene N	ID 5.0	"	"	"	"	"	"	
m,p-Xylene N	ID 10	"	"	"	"	"	"	
o-Xylene N	ID 5.0	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene	69.3 %	65-	-135	"	"	"	"	

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510]	Project: Niles Canyon Railway Project Number: [none] Project Manager: Jim Gribi							: 5:58
		T1415	SS-2 00-02 (S	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborator	ies, Inc.					
Extractable Petroleum Hydrocarb	ons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C	
C13-C28 (DRO)	600	10	"	"		"		"	
C29-C40 (MORO)	4200	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.7 %	65-	135	"	"	"	"	
Volatile Organic Compounds by E	PA Method 802	1B							
Benzene	ND	5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"		"		"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"			"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	65-	135	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510) F	Proje Project Numb Project Manag	ect: Niles er: [none ger: Jim G	Canyon Ra] ribi	iilway			Reported 08/07/14 10	l: 5:58
		T1415	SS-3 500-03 (S	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborator	ries, Inc.					
Extractable Petroleum Hvdrocar	bons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C	
C13-C28 (DRO)	170	10	"	"		"			
C29-C40 (MORO)	1300	10	"	"	"	"	"		
Surrogate: p-Terphenyl		98.3 %	65-	135	"	"	"	"	
Volatile Organic Compounds by	EPA Method 8021	B							
Benzene	ND	5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B	
Toluene	ND	5.0	"	"		"			
Ethylbenzene	ND	5.0	"	"		"			
m,p-Xylene	ND	10	"	"		"			
o-Xylene	ND	5.0	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		99.9 %	65-	135	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	l P	Project: Niles Canyon Railway Project Number: [none] Project Manager: Jim Gribi						Reported: 08/07/14 16:58	
		T1415	SS-4 500-04 (S	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborator	ries, Inc.					
Extractable Petroleum Hvdroca	rbons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C	
C13-C28 (DRO)	160	10	"	"		"	"		
C29-C40 (MORO)	910	10	"	"	"	"	"		
Surrogate: p-Terphenyl		98.6 %	65-	135	"	"	"	"	
Volatile Organic Compounds by	EPA Method 8021	В							
Benzene	ND	5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B	
Toluene	ND	5.0	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"		"	"		
m,p-Xylene	ND	10	"	"		"	"		
o-Xylene	ND	5.0	"	"		"		"	
Surrogate: 4-Bromofluorobenzene		97.7 %	65-	135	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510) F	Project: Niles Canyon Railway Project Number: [none] Project Manager: Jim Gribi						Reported: 08/07/14 16:58	
		T1415	SS-5 500-05 (S	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborator	ries, Inc.					
Extractable Petroleum Hvdrocar	bons by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C	
C13-C28 (DRO)	190	10	"	"		"	"		
C29-C40 (MORO)	1000	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		115 %	65-	135	"	"	"	"	
Volatile Organic Compounds by	EPA Method 8021	В							
Benzene	ND	5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B	
Toluene	ND	5.0	"	"		"	"		
Ethylbenzene	ND	5.0	"	"		"	"		
m,p-Xylene	ND	10	"	"		"	"		
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	65-	135	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510]	Proje Project Numb Project Manag	ect: Niles per: [none ger: Jim G	Canyon Ra] rribi	iilway			Reported 08/07/14 16	l: 5:58		
SS-6 T141500-06 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
		SunStar La	aborator	ries, Inc.							
Extractable Petroleum Hydrocarb	ons by 8015C										
C6-C12 (GRO)	ND	10	mg/kg	1	4073110	07/31/14	08/05/14	EPA 8015C			
C13-C28 (DRO)	1700	10	"	"		"	"	"			
C29-C40 (MORO)	12000	100	"	10	"	"	"	"			
Surrogate: p-Terphenyl		80.2 %	65-	135	"	"	"	"			
Volatile Organic Compounds by E	PA Method 802	1B									
Benzene	ND	5.0	ug/kg	1	4073115	07/31/14	08/01/14	EPA 8021B			
Toluene	ND	5.0	"	"		"	"				
Ethylbenzene	ND	5.0	"	"		"	"				
m,p-Xylene	ND	10	"	"		"	"	"			
o-Xylene	ND	5.0	"	"	"	"	"	"			
Surrogate: 4-Bromofluorobenzene		66.2 %	65-	135	"	"	"	"			

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	08/07/14 16:58

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Applyto	Decult	Reporting	Unita	Spike	Source	0/ DEC	%REC	DDD	RPD Limit	Notos
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4073110 - EPA 3550B GC										
Blank (4073110-BLK1)				Prepared:	07/31/14	Analyzed	1: 08/05/14			
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	101		"	100		101	65-135			
LCS (4073110-BS1)				Prepared: 07/31/14 Analyzed: 08/05/14						
C13-C28 (DRO)	440	10	mg/kg	500		87.8	75-125			
Surrogate: p-Terphenyl	104		"	100		104	65-135			
Matrix Spike (4073110-MS1)	So	urce: T14149	9-01	Prepared:	07/31/14	Analyzed	1: 08/06/14			
C13-C28 (DRO)	710	10	mg/kg	500	370	66.6	75-125			QM-05
Surrogate: p-Terphenyl	86.8		"	100		86.8	65-135			
Matrix Spike Dup (4073110-MSD1)	Source: T141499-01			Prepared:	Prepared: 07/31/14 Analyzed: 08/06/14					
C13-C28 (DRO)	630	10	mg/kg	500	370	51.7	75-125	11.2	20	QM-05
Surrogate: p-Terphenyl	97.0		"	100		97.0	65-135			

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	08/07/14 16:58

Volatile Organic Compounds by EPA Method 8021B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4073115 - EPA 5030 GC										
Blank (4073115-BLK1)				Prepared:	07/31/14	Analyzed	1: 08/01/14			
Benzene	ND	5.0	ug/kg	1		5				
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: 4-Bromofluorobenzene	90.5		"	100		90.5	65-135			
LCS (4073115-BS1)				Prepared:	07/31/14	Analyzed	1: 08/01/14			
Benzene	225	5.0	ug/kg	250		90.1	70-130			
Toluene	214	5.0	"	250		85.8	70-130			
Ethylbenzene	220	5.0	"	250		88.0	70-130			
m,p-Xylene	475	10	"	500		94.9	70-130			
o-Xylene	217	5.0	"	250		86.9	70-130			
Surrogate: 4-Bromofluorobenzene	90.0		"	100		90.0	65-135			
Matrix Spike (4073115-MS1)	So	urce: T14150	00-01	Prepared:	07/31/14	Analyzed				
Benzene	213	5.0	ug/kg	250	ND	85.1	70-130			
Toluene	180	5.0	"	250	ND	71.9	70-130			
Ethylbenzene	176	5.0	"	250	ND	70.2	70-130			
m,p-Xylene	357	10	"	500	ND	71.4	70-130			
o-Xylene	175	5.0	"	250	ND	70.1	70-130			
Surrogate: 4-Bromofluorobenzene	84.3		"	100		84.3	65-135			
Matrix Spike Dup (4073115-MSD1)	So	urce: T14150	00-01	Prepared:	07/31/14	Analyzed	1: 08/01/14			
Benzene	213	5.0	ug/kg	250	ND	85.0	70-130	0.0223	20	
Toluene	178	5.0	"	250	ND	71.3	70-130	0.887	20	
Ethylbenzene	180	5.0	"	250	ND	72.2	70-130	2.68	20	
m,p-Xylene	352	10	"	500	ND	70.4	70-130	1.38	20	
o-Xylene	178	5.0	"	250	ND	71.2	70-130	1.56	20	
Surrogate: 4-Bromofluorobenzene	81.4		"	100		81.4	65-135			

SunStar Laboratories, Inc.

Katherine Running Crane

, me.

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	08/07/14 16:58

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET
 Analyte DETECTED

 ND
 Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

Chain	of	Cus	tody	Rec	ord

SunStar Laboratories, Inc. 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020

Client: Gribi Address:	Assoc	iate	<u>2</u>		- · ·		Da Pr	ate: <u></u> oject	Nan	7/3 ne:	30 N1	el l	4 C	AN	ON	Pag	e:	0	Of	[— . —	
Phone: Project Manager:	Grib	Fax:			-		Co Ba	ollect atch #	or: t:	TI TI	2 5	<u>15</u>	· ·			Clier EDF	t Project : #:	#:				
Sample ID $55 \sim 1$ $55 \sim 2$ 55 - 3 55 - 5 55 - 6	Date Sampled	Time [30 135 140 1/45 1/50 1155	Sample Type	Container Type SeeVe	8260	8260 + OXY	8250 B1EX, OXY ONIY	XX XXX 8021 BTEX	8015M (gasoline)	8015M (diesel)	XXXXX 8015M Ext./Carbon Chain	6010/7000 Title 22 Metals				9 0 0 0 0 0 1 Laboratory ID #	Con	nments/l	Preserv	ative	Total # of containers	
Relinguished by: (signature) Relinguished by: (signature) Control (signature) Relinguished by: (signature)	Date / Ti 7[30]14 Date / Ti 8:52- Date / Ti	me H me	Received Received I	by: (signatu)e)			Date / Date / //4 Date /	Time	<i>11</i> <i>52</i>	Cha	in of	Tot Custo Sea red go	tal # of ody se als inta bod col time:	cont cont ct? Y nditio	ainers /N/NA /N/NA n/cold	6 7 7 5,4	STD S5-6 De o	LED	lotes be cult	allas t to	t;	- - - aly

COC 101176

Page 1 of ____

SAMPLE RECEIVING REVIEW SHEET

SunStar Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

BATCH #			·
Client Name: <u>GRIBI</u> Project:	LILES CAN	ION RA	ILWA-Y
Received by: Brind Date/Time Re	ceived:	7.31.14	8;52
Delivered by : Client SunStar Courier GSO FedEx	Other		
Total number of coolers received Temp criteria = 6° C	> 0°C (no ;	frozen cor	itainers)
Temperature: cooler #1 <u>s.c</u> $^{\circ}C$ +/- the CF (-0.2 $^{\circ}C$) = <u>s.4</u> $^{\circ}C$ corre	cted temperati	ire	
cooler #2°C +/- the CF (- 0.2° C) =°C corre	cted temperati	ıre	
cooler #3°C +/- the CF (- 0.2° C) =°C corrections	cted temperati	ıre	
Samples outside temp. but received on ice, w/in 6 hours of final sampling.	Yes	□No*	□N/A
Custody Seals Intact on Cooler/Sample	Yes	□No*	□N/A
Sample Containers Intact	Yes	No*	
Sample labels match COC ID's	Yes	No*	
Total number of containers received match COC	Yes	□No*	
Proper containers received for analyses requested on COC	Yes	□No*	
Proper preservative indicated on COC/containers for analyses requested	Yes	No*	N/A
Complete shipment received in good condition with correct temperatures, c preservatives and within method specified holding times. \checkmark Yes \square No	ontainers, la)*	abels, volu	mes
* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample R	leview - Initia	als and date	BC 7.31.14
Comments:	· · ·	· · · · ·	•
	······································		·····
			·····
	,,,,,,		

SunStar – Laboratories, Inc.

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

18 November 2015

Jim Gribi Gribi Associates 1090 Adam Street, Suite K Benicia, CA 94510 RE: Niles Canyon Railway

Enclosed are the results of analyses for samples received by the laboratory on 11/07/15 11:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Running Crane

Katherine RunningCrane Project Manager



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-2.5	T152793-01	Soil	11/04/15 09:45	11/07/15 11:15
B-1-5.5	T152793-02	Soil	11/04/15 10:00	11/07/15 11:15

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

DETECTIONS SUMMARY

Sample ID: B-1-2.5

Laboratory ID: T152793-01

No Results Detected

Sample ID: B-1-5.5	Laboratory ID: 7		T152793-02					
	Reporting							
Analyte	Result	Limit	Units	Method	Notes			
Acenaphthylene	5.7	5.0	ug/kg	EPA 8270C SIM				
Benzo (a) anthracene	15	5.0	ug/kg	EPA 8270C SIM				
Benzo (b) fluoranthene	11	10	ug/kg	EPA 8270C SIM				
Benzo (g,h,i) perylene	7.0	5.0	ug/kg	EPA 8270C SIM				
Benzo (a) pyrene	10	10	ug/kg	EPA 8270C SIM				
Chrysene	12	5.0	ug/kg	EPA 8270C SIM				
Fluoranthene	25	5.0	ug/kg	EPA 8270C SIM				
Indeno (1,2,3-cd) pyrene	10	5.0	ug/kg	EPA 8270C SIM				
Phenanthrene	21	5.0	ug/kg	EPA 8270C SIM				
Pyrene	36	10	ug/kg	EPA 8270C SIM				

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

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25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates										
1090 Adam Street, Suite K		Project Number: [none]							Reported:	
Benicia CA, 94510		Project Manag	11/18/15 17:04							
		I	3-1-2.5							
		T1527	793-01 (So	oil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
		SunStar L	aboratori	ies, Inc.						
Extractable Petroleum Hydrocarbons	by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	5110933	11/09/15	11/10/15	EPA 8015C		
C29-C40 (MORO)	ND	10	"	"	"	"	"	"		
Surrogate: p-Terphenyl		51.9 %	65-	135	"	"	"	"	S-03	
Volatile Organic Compounds by EPA	Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111114	11/11/15	11/17/15	EPA 8260B		
Toluene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
m,p-Xylene	ND	10	"	"	"	"	"	"		
o-Xylene	ND	5.0	"	"	"	"	"	"		
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"		
Tert-butyl alcohol	ND	50	"	"	"	"	"	"		
Di-isopropyl ether	ND	20	"	"	"	"	"	"		
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"		
C6-C12 (GRO)	ND	500	"	"	"	"		"		
Surrogate: Toluene-d8		85.8 %	85.5	-116	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		102 %	81.2	-123	"	"	"	"		
Surrogate: Dibromofluoromethane		134 %	95.7	-135	"	"	"	"		
Polynuclear Aromatic Compounds by	GC/MS with Select	ed Ion Monito	oring							
Acenaphthene	ND	10	ug/kg	1	5110944	11/09/15	11/10/15	EPA 8270C SIM		
Acenaphthylene	ND	5.0	"	"	"	"	"	"		
Anthracene	ND	5.0	"	"	"	"	"	"		
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"		
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"		
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"		
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"		
Benzo (a) pyrene	ND	10	"	"	"	"	"	"		
Chrysene	ND	5.0	"	"	"	"	"	"		
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"		
Fluoranthene	ND	5.0	"	"	"		"	"		

SunStar Laboratories, Inc.

Katherine Running Crane

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	I	Proje Project Numb Project Manag	ect: Niles per: [none] ger: Jim G	Canyon Rail ^ı ribi	way			Reported: 11/18/15 17:	04
		H T1527	3-1-2.5 793-01 (Se	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aborator	ies, Inc.					
Polynuclear Aromatic Compounds by	GC/MS with Selected	l Ion Monite	oring						
Fluorene	ND	10	ug/kg	1	5110944	11/09/15	11/10/15	EPA 8270C SIM	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"		"		"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"				"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		50.8 %	18-	137	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510		Proje Project Numl Project Manag	ect: Niles (per: [none] ger: Jim Gi	Canyon Rail	way			Reported 11/18/15 17	: ::04
		l	3-1-5.5						
		T1527	793-02 (So	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	by 8015C								
C13-C28 (DRO)	ND	10	mg/kg	1	5110933	11/09/15	11/10/15	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"		
Surrogate: p-Terphenyl		65.8 %	65-	135	"	"	"	"	
Volatile Organic Compounds by EPA	Method 8260B								
Benzene	ND	5.0	ug/kg	1	5111114	11/11/15	11/17/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.9 %	85.5	-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	81.2	-123	"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	95.7	-135	"	"	"	"	
Polynuclear Aromatic Compounds by	GC/MS with Selec	ted Ion Monit	oring						
Acenaphthene	ND	10	ug/kg	1	5110944	11/09/15	11/10/15	EPA 8270C SIM	
Acenaphthylene	5.7	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	15	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	11	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	7.0	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	10	10	"	"	"	"	"	"	
Chrysene	12	5.0	"	"	"	"	"		
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"		
Fluoranthene	25	5.0	"	"	"	"		"	

SunStar Laboratories, Inc.

Katherine Running Crane

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	1	Proje Project Numb Project Manag	ect: Niles (per: [none] ger: Jim Gi	Canyon Raib ribi	way			Reported: 11/18/15 17:	:04
		I T1527	3-1-5.5 793-02 (So	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	ies, Inc.					
Polynuclear Aromatic Compounds b	y GC/MS with Selected	l Ion Monite	oring						
Fluorene	ND	10	ug/kg	1	5110944	11/09/15	11/10/15	EPA 8270C SIM	
Indeno (1,2,3-cd) pyrene	10	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"		"	
Phenanthrene	21	5.0	"	"				"	
Pyrene	36	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		87.5 %	18-	137	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5110933 - EPA 3550B GC										
Blank (5110933-BLK1)				Prepared:	1/09/15 A	nalyzed: 11	/10/15			
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	66.1		"	99.8		66.2	65-135			
LCS (5110933-BS1)				Prepared:	1/09/15 A	nalyzed: 11	/10/15			
C13-C28 (DRO)	480	10	mg/kg	500		96.8	75-125			
Surrogate: p-Terphenyl	77.4		"	100		77.4	65-135			
Matrix Spike (5110933-MS1)	Sou	rce: T152791-	05	Prepared: 1	1/09/15 A	nalyzed: 11	/10/15			
C13-C28 (DRO)	430	10	mg/kg	500	38	78.8	75-125			
Surrogate: p-Terphenyl	66.5		"	100		66.5	65-135			
Matrix Spike Dup (5110933-MSD1)	Sou	rce: T152791-	05	Prepared:	1/09/15 A	nalyzed: 11	/10/15			
C13-C28 (DRO)	450	10	mg/kg	500	38	82.4	75-125	4.00	20	
Surrogate: p-Terphenyl	77.7		"	99.9		77.8	65-135			

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

				,						
Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Liint	Onits	Level	Result	70KEC	Linits	KI D	Linint	Notes
Batch 5111114 - EPA 5030 GCMS										
Blank (5111114-BLK1)				Prepared: 1	11/11/15 A	nalyzed: 11	/17/15			
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500								
Surrogate: Toluene-d8	35.0		"	40.0		87.6	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.4	81.2-123			
Surrogate: Dibromofluoromethane	46.8		"	40.0		117	95.7-135			
LCS (5111114-BS1)				Prepared: 1	11/11/15 A	nalyzed: 11	/17/15			
Chlorobenzene	109	5.0	ug/kg	100		109	75-125			
1,1-Dichloroethene	145	5.0	"	100		145	75-125			QM-11
Trichloroethene	103	5.0	"	100		103	75-125			
Benzene	115	5.0	"	100		115	75-125			
Toluene	98.3	5.0	"	100		98.3	75-125			
Surrogate: Toluene-d8	34.6		"	40.0		86.4	85.5-116			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	81.2-123			
Surrogate: Dibromofluoromethane	49.8		"	40.0		124	95.7-135			
LCS Dup (5111114-BSD1)				Prepared: 1	11/11/15 A	nalyzed: 11	/17/15			
Chlorobenzene	106	5.0	ug/kg	100		106	75-125	3.34	20	
1,1-Dichloroethene	132	5.0	"	100		132	75-125	9.65	20	QM-11
Trichloroethene	94.4	5.0		100		94.4	75-125	8.42	20	
Benzene	108	5.0	"	100		108	75-125	6.49	20	
Toluene	91.2	5.0		100		91.2	75-125	7.44	20	
Surrogate: Toluene-d8	35.2		"	40.0		88.1	85.5-116			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.6	81.2-123			
Surrogate: Dibromofluoromethane	50.6		"	40.0		127	95.7-135			

SunStar Laboratories, Inc.

Katherine RunningCrane



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5110944 - EPA 3550 ECD/GCMS

Blank (5110944-BLK1)				Prepared &	Analyzed:	: 11/09/15		
Acenaphthene	ND	10	ug/kg					
Acenaphthylene	ND	5.0	"					
Anthracene	ND	5.0						
Benzo (a) anthracene	ND	5.0						
Benzo (b) fluoranthene	ND	10						
Benzo (k) fluoranthene	ND	10						
Benzo (g,h,i) perylene	ND	5.0						
Benzo (a) pyrene	ND	10						
Chrysene	ND	5.0						
Dibenz (a,h) anthracene	ND	5.0						
Fluoranthene	ND	5.0						
Fluorene	ND	10						
Indeno (1,2,3-cd) pyrene	ND	5.0						
Naphthalene	ND	5.0						
Phenanthrene	ND	5.0						
Pyrene	ND	10						
Surrogate: Terphenyl-dl4	351		"	333		105	18-137	
LCS (5110944-BS1)				Prepared: 1	11/09/15 A	nalyzed: 1	1/10/15	
Acenaphthene	234	10	ug/kg	333		70.2	50-130	
Pyrene	240	10		333		72.1	50-130	
Surrogate: Terphenyl-dl4	290		"	333		87.2	18-137	
Matrix Spike (5110944-MS1)	Sou	Source: T152788-01		Prepared: 1	11/09/15 A	nalyzed: 1	1/10/15	
Acenaphthene	134	10	ug/kg	333	ND	40.3	50-130	QM-07
Pyrene	118	10		333	12.3	31.8	50-130	QM-07
Surrogate: Terphenyl-dl4	145		"	333		43.6	18-137	

SunStar Laboratories, Inc.

Katherine Running Crane



Gribi Associates	Project: Niles Canyon Railway	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 17:04

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110944 - EPA 3550 ECD/GCMS										
Matrix Spike Dup (5110944-MSD1)	Sourc	e: T152788-	01	Prepared:	11/09/15 A	nalyzed: 11	/10/15			
Acenaphthene	205	10	ug/kg	333	ND	61.7	50-130	41.9	31	QM-07
Pyrene	182	10	"	333	12.3	51.0	50-130	42.5	31	QM-07
Surrogate: Terphenvl-dl4	190		"	333		57.2	18-137			

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

SunStar — Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Gribi Assoc	viates	Project: Niles Canyon Railway	
1090 Adam	Street, Suite K	Project Number: [none]	Reported:
Benicia CA	, 94510	Project Manager: Jim Gribi	11/18/15 17:04
		Notes and Definitions	

- within acceptance criteria in the method blank and LCS.
 QM-11 The LCS and LCSD were above acceptance criteria. The method blank and sample were ND for the analyte in question. The CCV was within acceptance criteria. There was insufficient sample for reextraction. No negative impact on data is expected.
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020	5.	· ·		Chain c	of C	us	tody	y Re	eco	ord	•										•	-	
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Project Manager: <u> </u>	91151				-		$\mathcal{P}_{\mathbf{B}}$	atch #	£:		527	193					EDF	#					
							HS ~ Abal H	to lation for the		otor OrL	n Chain	Metals										ß	
			Sample	Container	60	60 + OXY	60 BTEX, OXY o	21 BTEX	15M (gasoline)	15M (diesel)/M	15M Ext./Carbo	10/7000 Title 22					boratory ID #		•			tal # of containe	
Sample ID	Date Sampled	Time	Туре	Type	8	8	8		8	80	8	8					La	Comr	nents/Pro	eservative	9	Ĕ	
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COC 131968

SunStar Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE			Page 1 of
SAMPLE RECEIVING REVIE	W SH	EET	
BATCH #		•	
Client Name: <u>GRABL</u> Project: <u>Nate</u>	LES CAN	YON R	AILWAY
Received by: <u>Branch</u> Date/Time Rec	ceived:	<u>n - 15</u>	11:15
Delivered by : Client SunStar Courier SGSO FedEx	Other		
Total number of coolers received Temp criteria = $6^{\circ}C$:	> 0°C (no	frozen co	ntainers)
Temperature: cooler #1 <u>5</u> (°C +/- the CF (-0.2°C) = <u>4.9</u> °C correc	ted temperati	ure	
cooler #2°C +/- the CF (- 0.2°C) =°C correction $^{\circ}$ C correction	ted temperat	ure	
cooler #3°C +/- the CF (- 0.2° C) =°C correc	ted temperat	ure	
Samples outside temp. but received on ice, w/in 6 hours of final sampling.	Yes	□No*	□N/A
Custody Seals Intact on Cooler/Sample	Yes]No*	N/A
Sample Containers Intact	Yes	□No*	
Sample labels match COC ID's	Yes	□No*	
Total number of containers received match COC	Yes	□No*	
Proper containers received for analyses requested on COC	Yes	□No*	
Proper preservative indicated on COC/containers for analyses requested	Yes	⊡No*	N/A
Complete shipment received in good condition with correct temperatures, co preservatives and within method specified holding times. Xes No	ntainers, la	abels, volu	mes
* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Re	view - Initi	als and date	BC 11/9/15
Comments:			
		2	
			<u> </u>
	147 St. 1		

SunStar				Printed: 11/9/2015 9:58:25AM
PROVIDING QUALITY ANALYTICAL SERVIN	es, Inc.	WO	RK ORDER	
Client: Gribi Associates Project: Niles Canyon Railway			Project Manager: Project Number:	Katherine RunningCrane [none]
Report To: Gribi Associates Jim Gribi 1090 Adam Street, Suite K Benicia, CA 94510				
Date Due: 11/16/15 15:00	(5 day TAT)			
Received By: Brian Charon			Date Received:	11/07/15 11:15
Logged In By: Brian Charon			Date Logged In:	11/09/15 07:36
Samples Received at: 4.9°C Custody Seals Yes Containers Intact Yes COC/Labels Agree Yes Preservation Confir No	e Yes			
Analysis	Due	ТАТ	Expires	Comments
T152793-01 B-1-2.5 [Soil] San (US &	npled 11/04/15 09:4	45 (GMT-0	8:00) Pacific Time	
8015 CC (D/MO)	11/16/15 15:00	5	11/18/15 09:45	
8260 BTEX/OXY	11/16/15 15:00	5	11/18/15 09:45	+ GRO
8270C PAH SIM	11/16/15 15:00	5	11/18/15 09:45	+Naphthalene
T152793-02 B-1-5.5 [Soil] San (US &	npled 11/04/15 10:0	00 (GMT-0	8:00) Pacific Time	
8015 CC (D/MO)	11/16/15 15:00	5	11/18/15 10:00	
8260 BTEX/OXY	11/16/15 15:00	5	11/18/15 10:00	+ GRO
8270C PAH SIM	11/16/15 15:00	5	11/18/15 10:00	+Naphthalene

ATTACHMENT D

SOIL BORING PERMIT





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ZONE 7 WATER AGENCY

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100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306 E-MAIL <u>whong@zone7water.com</u>

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DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT Niles Canyon Railways	PERMIT NUMBER 2015063
6 Kilkare Road	WELLNUMBER
Sunol, California	APN 096-0175-009-00
Coordinales Source[t. Accuracy∀ft. LAT:h. LONG:ft. APN096-0175-009	PERMIT CONDITIONS (Circled Permit Requirements Apply)
CLIENT Name Pacific Locomotive Association dba Niles Canyon Railway Address PO Box 515 Phone 650-704-1487 City Sunol, CA Zip 94586-0515 APPLICANT Name Jim Gribi, Gribi Associates Email Igribi@gribiassociates,com Fax 707-748-7763 Address 1050 Adams Street, Suite K Phone 707-748-7763 City Benicia, CA Zip 94510	 GENERAL A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date. Submit to Zone 7 within 60 days after completion of permitted work the original <u>Department of Water Resources Water Well Drillers Report (DWR Form 189), signed by the driller.</u> Permit is void if project not begun within 90 days of approval date. Notify Zone 7 at least 24 hours before the start of work. WATER SUPPLY WELLS Minimum surface seal diameter is four inches greater than the well casing diameter and six inches for public wells. Minimum seal depth is 50 feet for municipal and industrial wells
Calitodic Protection Other	 2. Minimum sets optims so retrief indiricipal and industrial webs or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. 3. Grout placed by Iramie. 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements. 5. A sample port is required on the discharge pipe near the wellhead. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter. 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. 3. Grout placed by tremine
WELL SPECIFICATIONS: Drill Hole Diameter in. Maximum Casing Diameter in. Depth It. Surface Seal Depth ft. Number	D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
Number of Borings <u>One (1)</u> Hole Diameter <u>2.5-inches</u> in Depth <u>12 feet</u> 11.	E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
ESTIMATED STARTING DATE 05/18/2015 ESTIMATED COMPLETION DATE 05/18/2015	F. WELL DESTRUCTION. See attached.
t hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68. APPLICANT'S Journy O Date 05/08/2015 SIGNATURE	Approved Wyman Hong Wyman Hong

Revised: May 17, 2011





ATTACHMENT A

SITE PHOTOS



ATTACHMENT B

SOIL DISPOSAL MANIFEST



ATTACHMENT C

LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORDS



ATTACHMENT D

SOIL BORING PERMIT

