northgate
environmental management, inc.

November 9, 2009

Mr. Stuart Rickard
Placeworks LLC
C/O Wactor and Wick
180 Grand Avenue, Suite 950
Oakland, California 94612

Stuart Rickard
Principal

1501 Pacific Avenue

Re: Remedial Action Report
3645 San Pablo Avenue
Emeryville, California

Dear Mr. Rickard:

This letter presents a summary of recent investigation and remedial activities associated with the excavation and removal of contaminated soil from 3645 San Pablo Avenue in Emeryville, California (the Site). The Site consists of an approximate 4,200 square-foot triangular-shaped parcel identified as Assessor's Parcel Number 049-0480-001, located at the intersection of San Pablo Avenue and Adeline Street. The Site is currently vacant and is in the process of being redeveloped for use as a pizza restaurant.

During grading activities for the new restaurant, stained and odorous soil was encountered in two locations at the Site. The nature and extent of contamination was investigated, and the impacted soil was excavated from the Site on July 29 and August 10, 2009, and disposed of at off-Site landfill facilities permitted to accept the wastes. Groundwater was not encountered.

Chemical test results of soil samples collected at the Site indicate that residual petroleum hydrocarbons remain in shallow soil at the Site. However, petroleum hydrocarbon concentrations remaining in soil at the Site all appear to be below regulatory screening criteria for commercial and industrial land use, and do not appear to impact the proposed use of the Site as a restaurant. A summary of the investigation and remedial activities is presented below.

BACKGROUND – PREVIOUS INVESTIGATIONS

2002 Phase I: According to a previous Phase I Environmental Site Assessment (ESA) performed at the Site (Ninyo & Moore, 2002), the Site was occupied by a gasoline service station from as early as 1947 until some time before 1969. Most recently, the Site was occupied by a liquor/convenience store. The ESA recommended a subsurface evaluation to

evaluate the possible presence of soil and groundwater contamination related to the former use of the Site as a gasoline service station

2004 Phase II: A Limited Phase II ESA was subsequently performed at the Site (Ninyo & Moore, 2004) to evaluate environmental concerns identified in the ESA. The 2004 investigation consisted of a geophysical survey of the Site to evaluate the possible presence of subsurface structures and voids related to former underground fuel storage tanks (USTs) associated with the service station, and the collection of samples from five borings advanced to evaluate soil quality at the Site. The geophysical survey identified a disturbed soil pattern that was interpreted as a possible former excavation that may have been related to the removal of USTs from the Site. Two soil samples were collected at depths of 5 and 10 feet below the ground surface (bgs) from each of the five borings. No groundwater samples were collected or analyzed. Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), diesel (TPH-d), and motor oil (TPH-mo); benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE); and 5 LUFT metals (cadmium, chromium, lead, nickel, and zinc). Soil sample results indicated the presence of petroleum hydrocarbons, BTEX, and MTBE at low to moderate levels across the Site. However, all sample results were below regulatory screening levels for residential land use. The 2004 report concluded that soil contamination existed at the Site but was below regulatory guidelines, and that no additional evaluation or mitigation was needed.

REMEDIAL ACTIVITIES

In 2009, during grading at the Site, two small areas of soil were identified that contained significantly stained and/or odorous soils. Tests showed that the soil in these areas contained contaminants at concentrations that exceed regulatory screening levels for commercial/industrial land use. These hotspot areas were subsequently excavated and the soil removed from the Site for off-Site disposal. A total of about 95 cubic yards (152.6 tons) of contaminated soil was removed. The soil disposal manifests are attached to the end of this report. Soil sample locations and excavation boundaries are shown on Figure 1. The investigation and remedial activities for each hotspot are described below.

Hotspot #1

A small area of oily, odorous soil was encountered on the southeast corner of the Site during footing excavations for the new commercial structure ("Hotspot #1"). Northgate visited the Site on May 22, 2009, and collected a sample of the odorous soil (sample "EX-1") for chemical analysis. The sample was analyzed for TPH-g, TPH-d, and TPH-mo using

EPA Method 8015; volatile organic compounds (VOCs) using EPA Method 8260; and 5 LUFT metals using EPA Method 6010. Soil sample results are presented on Table 1. With the exceptions of lead and naphthalene, the measured concentrations were all below San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for commercial/industrial land use. However, lead was measured at a concentration of 900 parts per million (ppm), exceeding the ESL for direct exposure of 750 ppm. Naphthalene was measured at a concentration of 8,800 parts per billion (ppb), exceeding the former ESL for potential vapor intrusion to indoor-air of 1,500 ppb.

Northgate advanced twenty borings at the Site on July 2, 2009, to evaluate the lateral and vertical extent of contamination identified at the location of sample EX-1. Borings were advanced to depths of up to 8 feet bgs using a track-mounted direct-push drill rig. One boring (B6) was advanced at the location of sample EX-1, with additional borings advanced in a grid-like pattern around EX-1. Soil cores were collected from the borings in clean acetate liners and inspected for odors, staining, and other indications of contamination. A photoionization detector (PID) was used to screen the soil for the presence of volatile compounds. Generally clean soil was encountered in borings within five feet to the north, south, and east of sample EX-1. Moderate odors and staining were encountered in borings advanced to the west and northwest of EX-1 in an approximate 1 – 3 foot thick layer of black fill material containing bits of concrete, brick, and other debris. The fill material was encountered in the borings at depths of approximately 1 to 4 feet bgs.

Based on the visual evidence and PID readings, five soil samples, including samples of the black fill material, were selected for chemical analysis. Soil from selected intervals was collected in laboratory-supplied glassware, and stored in a cooler on ice for transport to a laboratory under chain-of-custody control. Each soil sample was analyzed at Curtis & Tompkins of Berkeley, California for TPH-g, TPH-d, TPH-mo, VOCs including BTEX and MTBE, and 5 LUFT metals. Chemical test results of the five soil samples are presented in Table 1. As shown in Table 1, TPH-mo was detected in four of the samples at concentrations ranging from 46 to 530 ppm, along with lesser concentrations of TPH-g and TPH-d. Naphthalene was detected at a maximum concentration of 1,300 ppb (B13-4). No BTEX or MTBE compounds were detected at concentrations that exceed the laboratory MRLs, and none of the samples contained petroleum hydrocarbons, VOCs, or metals above ESLs for commercial/industrial land use. Based on the chemical test results, Northgate concluded that the most seriously impacted soil represented by sample EX-1 was limited in lateral and vertical extent. Petroleum hydrocarbon contamination is present in the black fill material layer to the west of Hotspot #1, but chemical test results indicate that the concentrations are all below regulatory standards for commercial/industrial land use.

Hotspot #1 was excavated by Cornerstone Environmental Contractors (Cornerstone) of Lafayette, California on the morning of July 29, 2009, under the observation of a Northgate Professional Geologist. The extent of the excavation was determined by field observations and previous sample results. An approximate 8-foot by 8-foot area around sample EX-1 was excavated to a depth of 4 feet bgs (the depth of sample B6-4.0) to remove the impacted material. A shallower excavation was extended approximately 6 feet to the west, to sample B1-2.5, based on field observations. A total of 25.5 tons of soil was excavated. It was classified as a Class I California-hazardous waste due the presence of soluble lead in sample EX-1 at a concentration that exceeded the Soluble Threshold Limit Concentration. The excavated soil was transported for disposal at the Kettleman Hills Landfill in Kettleman City, California, a permitted Class I Hazardous Waste Landfill. The hole was backfilled with clean fill.

Hotspot #2

A second area of odorous soil was encountered on the northern portion of the Site during grading activities on the afternoon of July 29, 2009. The material consisted of mixed fill with a significant amount of debris, including large blocks of concrete and metal. Hotspot #2 appears to be a former excavation, possibly related to former USTs belonging to the service station that occupied the Site. Backhoe test pits indicated that stained and odorous soil with significant debris was encountered to a depth of approximately 6 feet bgs. Northgate collected four discrete samples (SP2-A through SP2-D) from the bottom, sidewalls, and spoils of the test pit. A composite of the four samples was analyzed for TPH-g, TPH-d, TPH-mo, and 5 LUFT metals. Sample SP2-A was analyzed as a discrete sample for VOCs. Samples results are presented on Table 2. As shown on Table 2, all measured concentrations are below ESLs for commercial/industrial land use, with the exception of sample SP-A, which contained naphthalene at a concentration that exceeds the ESL for direct exposure, and the former ESL for vapor intrusion to indoor air.

Hotspot #2 was excavated by Cornerstone on August 10, 2009, under the observation of a Northgate Professional Geologist. An area measuring approximately 19 feet by 15 feet was excavated to a depth of approximately 6 feet bgs (approximately 63 in-place cubic yards) based on visual observation. The excavated material (approximately 127.1 tons) was disposed of as a Class II non-hazardous waste at Hay Road Landfill in Vacaville, California. Two confirmation samples were collected from the sidewalls of the excavation (SA-3.5 and SB-3.5) and a third confirmation sample was collected from the base of the excavation (BE-6.0). Each sample was analyzed for TPH-g, TPH-d, TPH-mo, BTEX, MTBE, and 5 LUFT metals. Confirmation sample results are presented in Table 2. As

shown in Table 2, low concentrations of TPH-g and TPH-d are present in the sidewalls and base of the excavation. However, the residual concentrations are well below ESLs for commercial/industrial land use. The hole was backfilled with clean fill and compacted after confirmation sampling showing that the soil exceeding the ESLs had been removed.

CONCLUSIONS

Two localized areas of contamination (Hotspot #1 and Hotspot #2) were identified at the Site during grading activities. Sample results indicated that chemicals, primarily naphthalene, but also lead at Hotspot #1, were present at concentrations that exceeded ESLs for commercial/industrial land use. The two areas were excavated and disposed of off-Site at appropriate, licensed disposal facilities. Soil sample test results indicate that detectable low levels of hydrocarbon and VOCs remain in soil at the Site. However, all measured concentrations are below ESLs for commercial/industrial land use. Based on the chemical test results, the residual contamination does not appear to represent a threat to human health or the environment given the proposed land use at the Site, and no further action appears warranted.

We recommend that in the future, any contractors performing subsurface work at the Site be prepared for the possibility of encountering odorous or contaminated soils, and have a contingency plan in place for such an occurrence.

LIMITATIONS

The purpose of a soil testing program is to reasonably characterize existing soil quality conditions based on chemical testing of representative samples of the soil material. In performing such a study, it is understood that a balance must be struck between a reasonable investigation into existing site conditions and an exhaustive analysis of each conceivable condition. No investigation is thorough enough to evaluate all soil-quality conditions of interest at a given site. If certain conditions have not been identified during the study, such a finding should not be construed as a guarantee of the absence of such conditions, but rather as the result of the services performed within the scope, limitations, and cost of the work performed. Soil-quality conditions may exist at the site that cannot be identified solely by visual observation or chemical testing. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

CLOSING

We appreciate the opportunity to work provide service to you on this project. If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,
Northgate Environmental Management, Inc.

Josh Otis, P.G.
Project Geologist

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Enclosures: Table 1
Table 2
Figure 1
Laboratory Analytical Report
Waste Manifests

TABLES

TABLE 1
Soil Sample Analytical Results - Hotspot #1

Analyte	Units	Soil Sample Location and Depth						Regulatory Standards		
								ESL - 2008		ESL - 2006
		B1-2.5	B6-4	B12-3	B13-4	B16-2.5	EX-1 [1]	Direct Exposure	Groundwater Protection	Potential Vapor Intrusion
TPH as Gasoline	mg/kg	<1	<1	1.4*	4.3*	<1	310*	450	180	ne
TPH as Diesel	mg/kg	57*	<1	150*	36*	20*	620*	450	180	ne
TPH as Oil	mg/kg	230	<5	530	46	75	1,700	3,700	ne	ne
Volatile Organic Compounds										
Benzene	µg/kg	<5	<5	<5	<51	<5	< 500	270	2,000	510
Toluene	µg/kg	<5	<5	<5	<51	<5	< 500	210,000	9,300	310,000
Ethylbenzene	µg/kg	<5	<5	<5	<51	<5	1,000	5,000	4,700	390,000
Xylenes	µg/kg	<5	<5	<5	<51	<5	5,300	100,000	11,000	420,000
MTBE	µg/kg	<5	<5	<5	<51	<5	< 500	65,000	ne	5,600
Acetone	µg/kg	40	9.7	66	<100	63	<1000	11,000	500	3,300
Propylbenzene	µg/kg	<5	<5	<5	83	<5	1,800	ne	ne	ne
1,3,5-Trimethylbenzene	µg/kg	<5	<5	<5	<51	<5	4,600	200,000**	ne	ne
1,2,4-Trimethylbenzene	µg/kg	<5	<5	<5	180	<5	18,000	280,000**	ne	ne
sec-Butylbenzene	µg/kg	<5	<5	5.2	<51	<5	590	ne	ne	ne
para-Isopropyl Toluene	µg/kg	<5	<5	<5	<51	<5	510	ne	ne	ne
n-Butylbenzene	µg/kg	<5	<5	15	230	<5	2,100	ne	ne	ne
2-Butanone	µg/kg	<5	<5	11	<100	<5	<500	21,000	3,900	1,300
Naphthalene	µg/kg	<5	<5	14	1,300	<5	8,800	2,800	4,800	1,500
Other VOCs	µg/kg	ND	ND	ND	ND	ND	ND	na	na	na
Metals										
Cadmium	mg/kg	0.49	<0.25	<0.25	0.31	<0.25	0.52	7.4	ne	ne
Chromium	mg/kg	34	40	27	30	22	30	310,000	ne	ne
Lead	mg/kg	92	5.9	21	56	30	900	750	ne	ne
Nickel	mg/kg	35	59	25	32	23	40	3,400	ne	ne
Zinc	mg/kg	150	32	47	120	88	94	61,000	ne	ne

NOTES

TPH: Total Petroleum Hydrocarbons

mg/kg: Milligrams per kilogram (parts per million)

µg/kg: Micrograms per kilogram (parts per billion)

*: Sample exhibits chromatographic pattern which does not resemble laboratory standard

**: ESL not established, USEPA Region 9 - Regional Screening Levels for industrial soils (April 2009) shown

ND: Not detected above the laboratory method reporting limit; limits vary by compound

ESL - 2008: California Regional Water Quality Control Board Region 2 - Environmental Screening Levels for shallow soil (<10 feet deep) in commercial/industrial land use

ESL - 2006: California Regional Water Quality Control Board Region 2 - Environmental Screening Levels for potential vapor intrusion into buildings (discontinued)

na: Not applicable

ne: Not established

1: Soil represented by EX-1 was removed during remedial excavation

TABLE 2
Soil Sample Analytical Results - Hotspot #2

Analyte	Units	Soil Sample Location and Depth					Regulatory Standards		
							ESL - 2008		ESL - 2006
		SP2-A [1]	SP2-A,B,C,D [1]	SA-3.5 [2]	SB-3.5 [2]	BE-6.0 [2]	Direct Exposure	Groundwater Protection	Potential Vapor Intrusion
TPH as Gasoline	mg/kg	NA	260*	<1.0	<0.99	3.7*	450	180	ne
TPH as Diesel	mg/kg	NA	420*	1.8*	3*	27*	450	180	ne
TPH as Oil	mg/kg	NA	78	<5	<5	<5	3,700	ne	ne
Volatile Organic Compounds (VOCs)									
Benzene	µg/kg	<2,500	NA	<4.8	<4.8	<24	270	2,000	510
Toluene	µg/kg	<2,500	NA	<4.8	<4.8	<24	210,000	9,300	310,000
Ethylbenzene	µg/kg	3,700	NA	<4.8	<4.8	<24	5,000	4,700	390,000
Xylenes	µg/kg	2,600	NA	<4.8	<4.8	<24	100,000	11,000	420,000
MTBE	µg/kg	<2,500	NA	<4.8	<4.8	<24	65,000	ne	5,600
Propylbenzene	µg/kg	3,900	NA	<4.8	<4.8	<24	ne	ne	ne
1,2,4-Trimethylbenzene	µg/kg	7,300	NA	<4.8	<4.8	<24	280,000**	ne	ne
n-Butylbenzene	µg/kg	2,700	NA	<4.8	<4.8	<24	ne	ne	ne
Naphthalene	µg/kg	**4,400**	NA	<4.8	<4.8	<24	2,800	4,800	1,500
Other VOCs	µg/kg	ND	NA	ND	ND	ND	na	na	na
Metals									
Cadmium	mg/kg	NA	1.0	<0.25	<0.25	<0.25	7.4	ne	ne
Chromium	mg/kg	NA	32	22	27	33	310,000	ne	ne
Lead	mg/kg	NA	17	3.1	3.3	5.1	750	ne	ne
Nickel	mg/kg	NA	36	15	21	52	3,400	ne	ne
Zinc	mg/kg	NA	190	17	18	35	61,000	ne	ne

NOTES

TPH: Total Petroleum Hydrocarbons

mg/kg: Milligrams per kilogram (parts per million)

µg/kg: Micrograms per kilogram (parts per billion)

*: Sample exhibits chromatographic pattern which does not resemble laboratory standard

NA: Not analyzed

ND: Not detected above the laboratory method reporting limit; limits vary by compound

ESL - 2008: California Regional Water Quality Control Board Region 2 - Environmental Screening Levels for shallow soil (<10 feet deep) in commercial/industrial land use

ESL - 2006: California Regional Water Quality Control Board Region 2 - Environmental Screening Levels for potential vapor intrusion into buildings (discontinued)

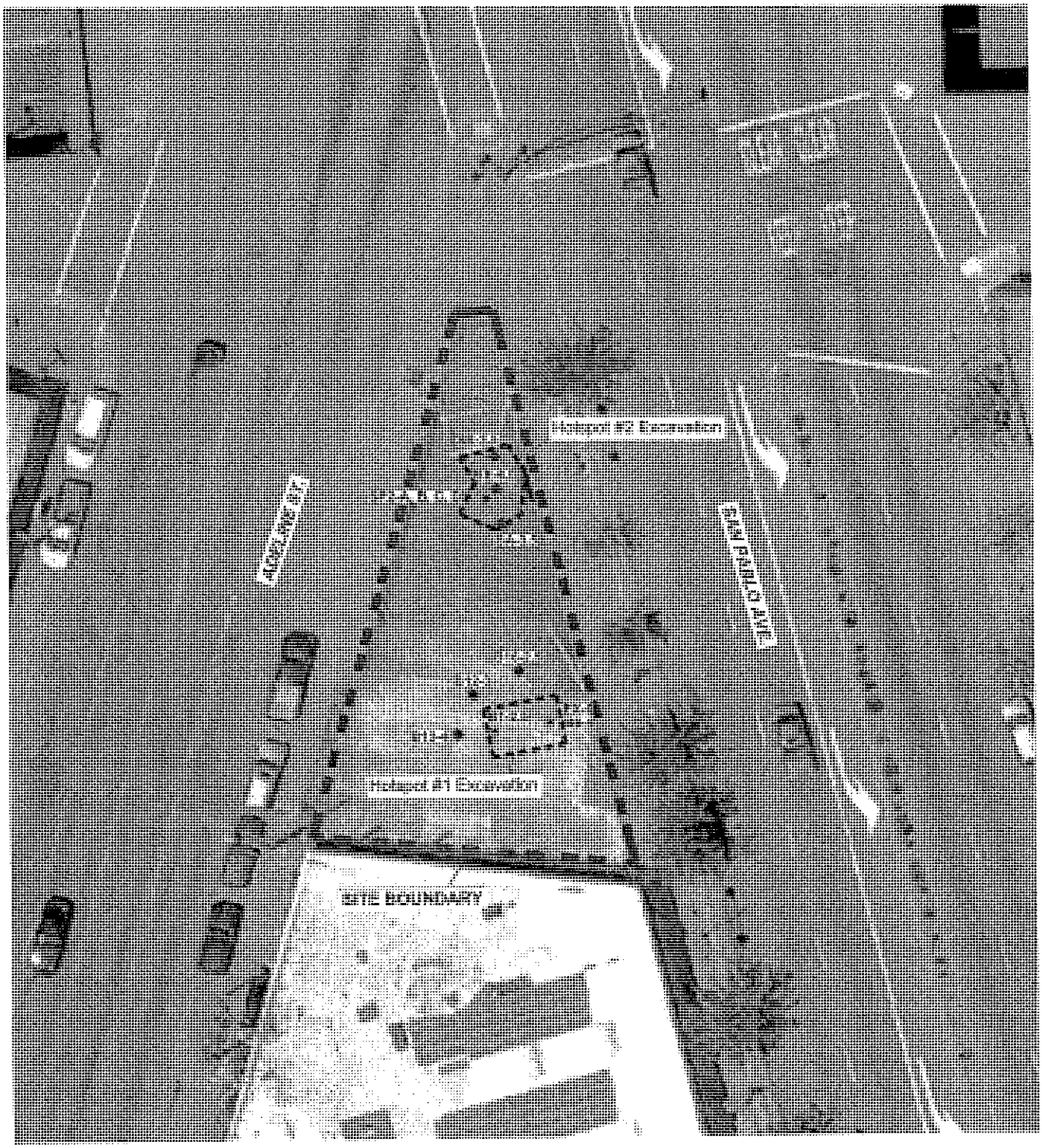
na: Not applicable

ne: Not established

1: Soil represented by SP2-A and SP2-A,B,C,D was removed during remedial excavation.

2: Confirmation samples collected by Northgate (SA, SB = sidewall, BE = excavation bottom)

FIGURES



LEGEND:

BE-6.0 ⊕ Northgate sampling location

B1-2.5 ◉ Northgate sampling location (removed by excavation)

Excavation boundary

N

0 15 30

Scale (Feet)

FIGURE 1
Site Plan

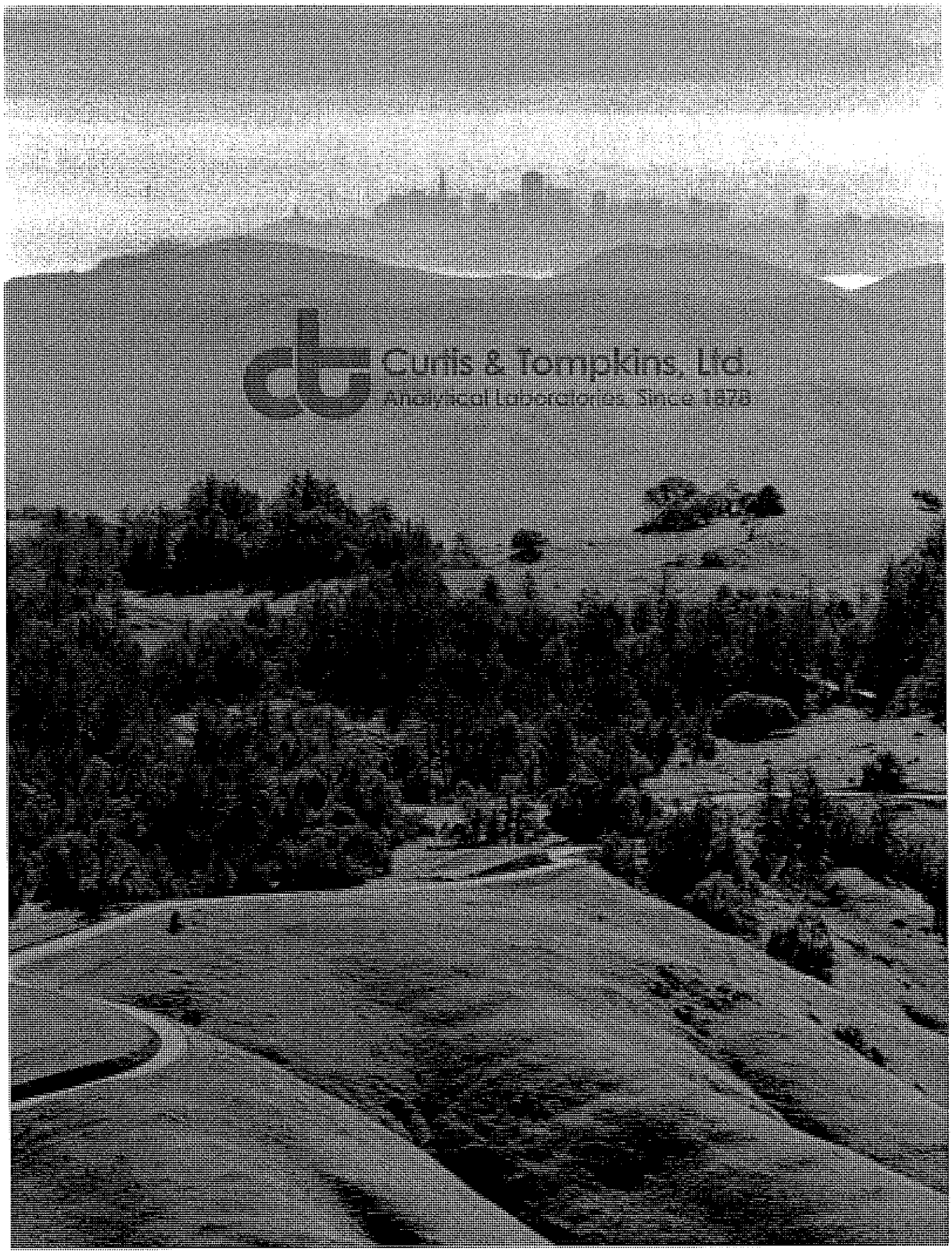
northgate
environmental management, inc.

Remdal Action Report
3645 San Pablo Avenue
Emeryville, California

Project No. 1141.08

G:\Projects\Temp\1141 Version 8 site\1141.08_3645 San Pablo\1141.08 Reports\Remedial Action Report\1141.08 Figures\Figure 1 - Site Plan.dwg Layout: 8.5x11-P User: oleg Nov 05, 2009 - 4:43pm

LABORATORY ANALYTICAL REPORT


Curtis & Tompkins, Ltd.
Analytical Laboratories Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 212408
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.X
300 Frank H. Ogawa Plaza	Location : 3645 San Pablo
Oakland, CA 94612	Level : II

Sample ID	Lab ID
EX-1	212408-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/28/2009
Project Manager

Signature: _____ Date: 05/28/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	212408
Client:	Northgate Environmental Management
Project:	1141.X
Location:	3645 San Pablo
Request Date:	05/27/09
Samples Received:	05/22/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 05/27/09. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Matrix spikes were not performed for this analysis in batch 151282 due to insufficient sample amount. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
High recoveries were observed for lead and zinc in the MS for batch 151314; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was also observed for lead and zinc in the MS/MSD for batch 151314; the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

Page ____ of ____

C & T LOGIN #: 212408 ~~212338~~ MRS 5/27/09

Sampler: D. Laduzinsky

Project No.: 1141.X

Report To: dennis.laduzinsky@ngem.com

Project Name: 3645 San Pablo

Company: Northgate

Project P.O.:

Telephone: 510-839-0688 x 202

Turnaround Time: 24-hour

Fax: 5108394350

Analysis: TPH Gasoline w/BTXE; TPH Gasoline; TPH Diesel & Oil; VOCs 8260; 17 Metals

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste		# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE		TPH Gasoline w/BTXE	TPH Gasoline	TPH Diesel & Oil	VOCs 8260	17 Metals								
~~1~~	~~SP1-N~~	~~1135~~	~~X~~				~~3~~						~~X~~		~~X~~		~~X~~	composite 3→1 MRS 5/27/09							
~~2~~	~~SP1-E~~	~~1140~~	~~X~~										~~X~~		~~X~~		~~X~~								
~~3~~	~~SP1-W~~	~~1145~~	~~X~~										~~X~~		~~X~~		~~X~~								
1 ~~4~~ MRS 5/27/09	EX-1	1150	X				1							X	X	X	X								

Notes:

SAMPLE RECEIPT
- [x] Intact
- [ ] Cold
- [x] On Ice
- [ ] Ambient

Preservative Correct?
- [ ] Yes
- [ ] No
- [ ] N/A

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
[signature]	5/22/09 1245	[signature]	5/22/09 1245
	DATE / TIME		DATE / TIME
	DATE / TIME		DATE / TIME

SIGNATURE

Micah Smith

From: "Dennis Laduzinsky" <Dennis.Laduzinsky@ngem.com>
To: "'Micah Smith'" <micah.smith@ctberk.com>
Sent: Wednesday, May 27, 2009 4:06 PM
Subject: RE: 1141.X - C&T Reports (212338)

Micah,
I will need those tests in two separate reports after all.
Please proceed.
Thanks

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
phone (510) 839-0688 ext. 202; fax (510) 839-4350
http://www.ngem.com/

Certified Bay Area Green Business

-----Original Message-----
From: Micah Smith [mailto:micah.smith@ctberk.com]
Sent: Wednesday, May 27, 2009 1:27 PM
To: Dennis Laduzinsky
Subject: Re: 1141.X - C&T Reports (212338)

Dennis,
The rush surcharge is 100%. The surcharge to separate the report is 10%.
And It will take a few days.
Thanks
Micah

----- Original Message -----
From: "Dennis Laduzinsky" <Dennis.Laduzinsky@ngem.com>

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

212408 MRS 5/27/09

Login # 212338 Date Received 5/22/09 Number of coolers 9

Client NORTHGATE Project 3645 SAN PABLO

Date Opened 5/22/09 By (print) M. VILLANUEVA (sign)

Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ NO
   How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) ___ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☑ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
   If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are samples in the appropriate containers for indicated tests? _____ YES NO

11. Are sample labels present, in good condition and complete? _____ YES NO

12. Do the sample labels agree with custody papers? _____ YES NO

13. Was sufficient amount of sample sent for tests requested? _____ YES NO

14. Are the samples appropriately preserved? _____ YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8015B
Field ID:	EX-1	Batch#:	151352
Matrix:	Soil	Sampled:	05/22/09
Units:	mg/Kg	Received:	05/22/09
Basis:	as received	Analyzed:	05/26/09

Type: SAMPLE
Lab ID: 212408-001
Diln Fac: 25.00

Analyte	Result	RL
Gasoline C7-C12	310 Y	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	54-152
Bromofluorobenzene (FID)	147	50-152

Type: BLANK
Lab ID: QC497404
Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	54-152
Bromofluorobenzene (FID)	97	50-152

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	151352
Basis:	as received	Analyzed:	05/26/09

Type: BS Lab ID: QC497405

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.878	98	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	54-152
Bromofluorobenzene (FID)	101	50-152

Type: BSD Lab ID: QC497406

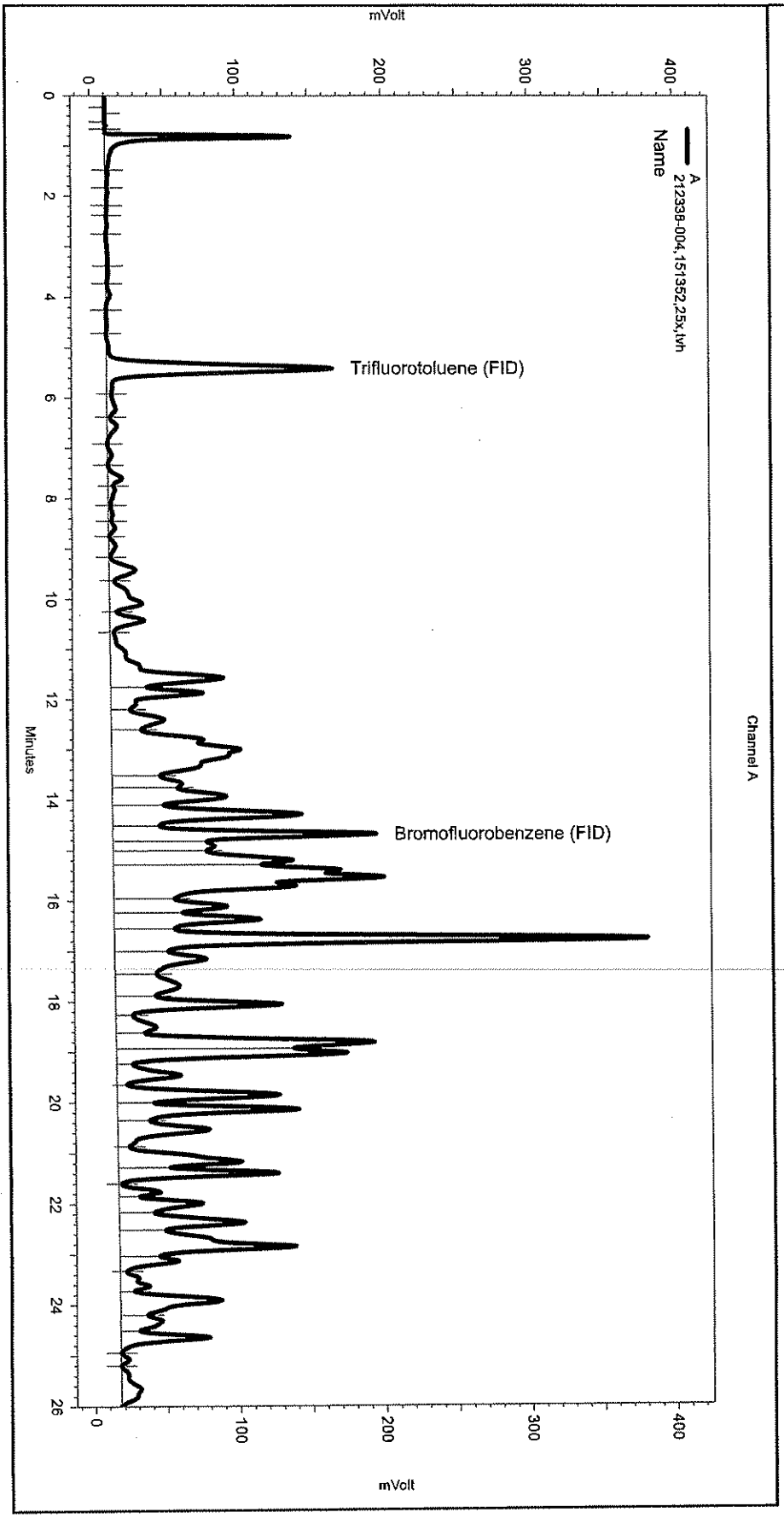
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	9.024	90	77-120	8	21

Surrogate	%REC	Limits
Trifluorotoluene (FID)	125	54-152
Bromofluorobenzene (FID)	104	50-152

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\146.seq
Sample Name: **212338-004,151352,25x,tvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\146_011
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe119.met

Software Version 3.1.7
Run Date: 5/26/2009 2:10:54 PM
Analysis Date: 5/26/2009 2:39:37 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: A



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\146_011_28AE.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

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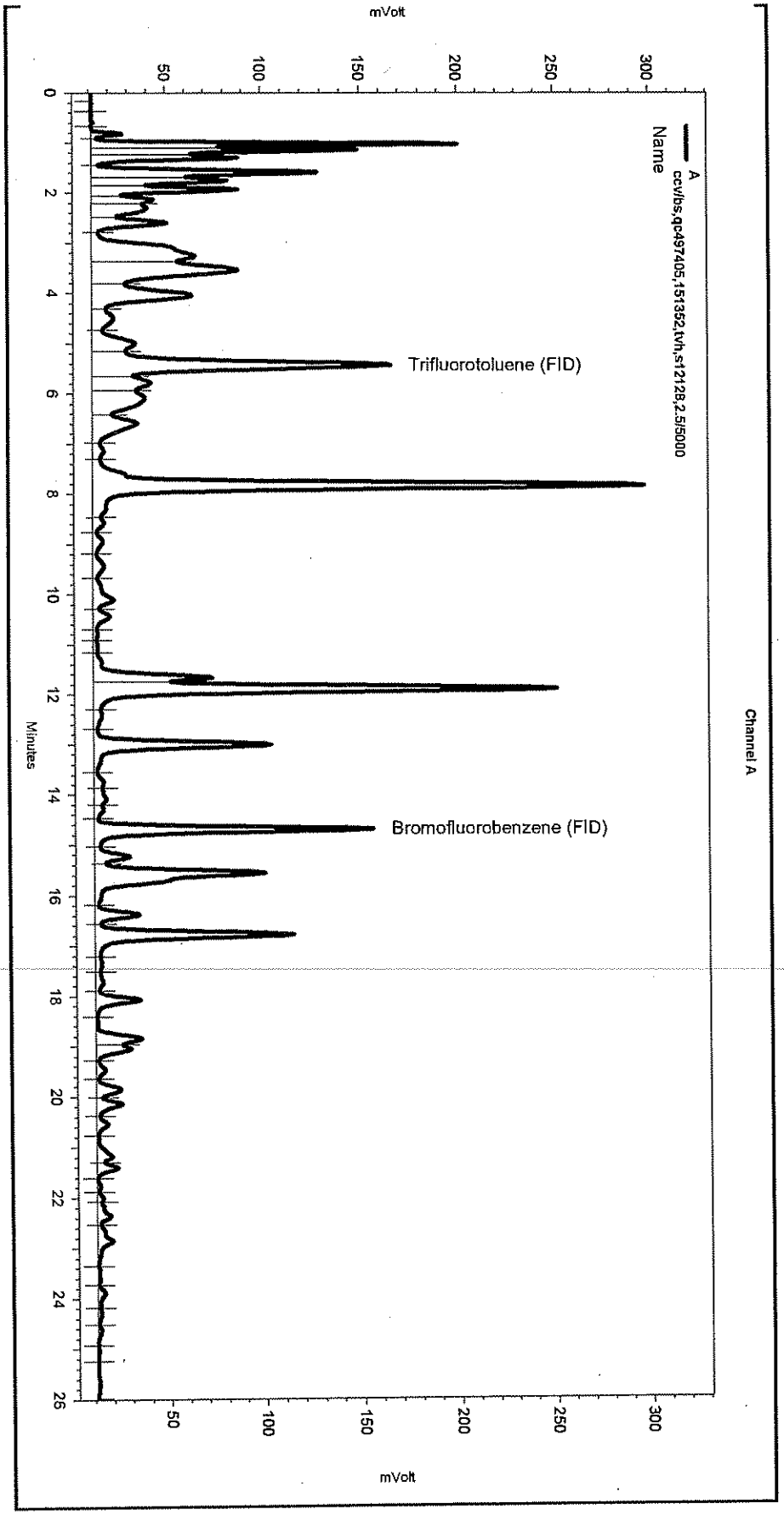
Sample Name: **ccv/bs,qc497405,151352,tvh,s12128,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\146_004**
Instrument: GC07 (Offline) Vial: N/A Operator: Weldon Hall (lims2k3\weldon)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe119.met

Software Version 3.1.7
Run Date: 5/26/2009 9:22:14 AM
Analysis Date: 5/26/2009 2:25:39 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\146_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.X	Analysis:	EPA 8015B
Field ID:	EX-1	Batch#:	151295
Matrix:	Soil	Sampled:	05/22/09
Units:	mg/Kg	Received:	05/22/09
Basis:	as received	Prepared:	05/22/09

Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	212408-001	Analyzed:	05/26/09

Analyte	Result	RL
Diesel C10-C24	620 Y	5.0
Motor Oil C24-C36	1,700	25

Surrogate	%REC	Limits
o-Terphenyl	96	53-133

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC497177	Analyzed:	05/22/09

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	108	53-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.X	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC497178	Batch#:	151295
Matrix:	Soil	Prepared:	05/22/09
Units:	mg/Kg	Analyzed:	05/23/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.85	41.73	84	52-128

Surrogate	%REC	Limits
o-Terphenyl	94	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.X	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	151295
MSS Lab ID:	212312-003	Sampled:	05/20/09
Matrix:	Soil	Received:	05/21/09
Units:	mg/Kg	Prepared:	05/22/09
Basis:	as received	Analyzed:	05/22/09
Diln Fac:	1.000		

Type: MS Lab ID: QC497179

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.769	49.84	50.13	95	33-145

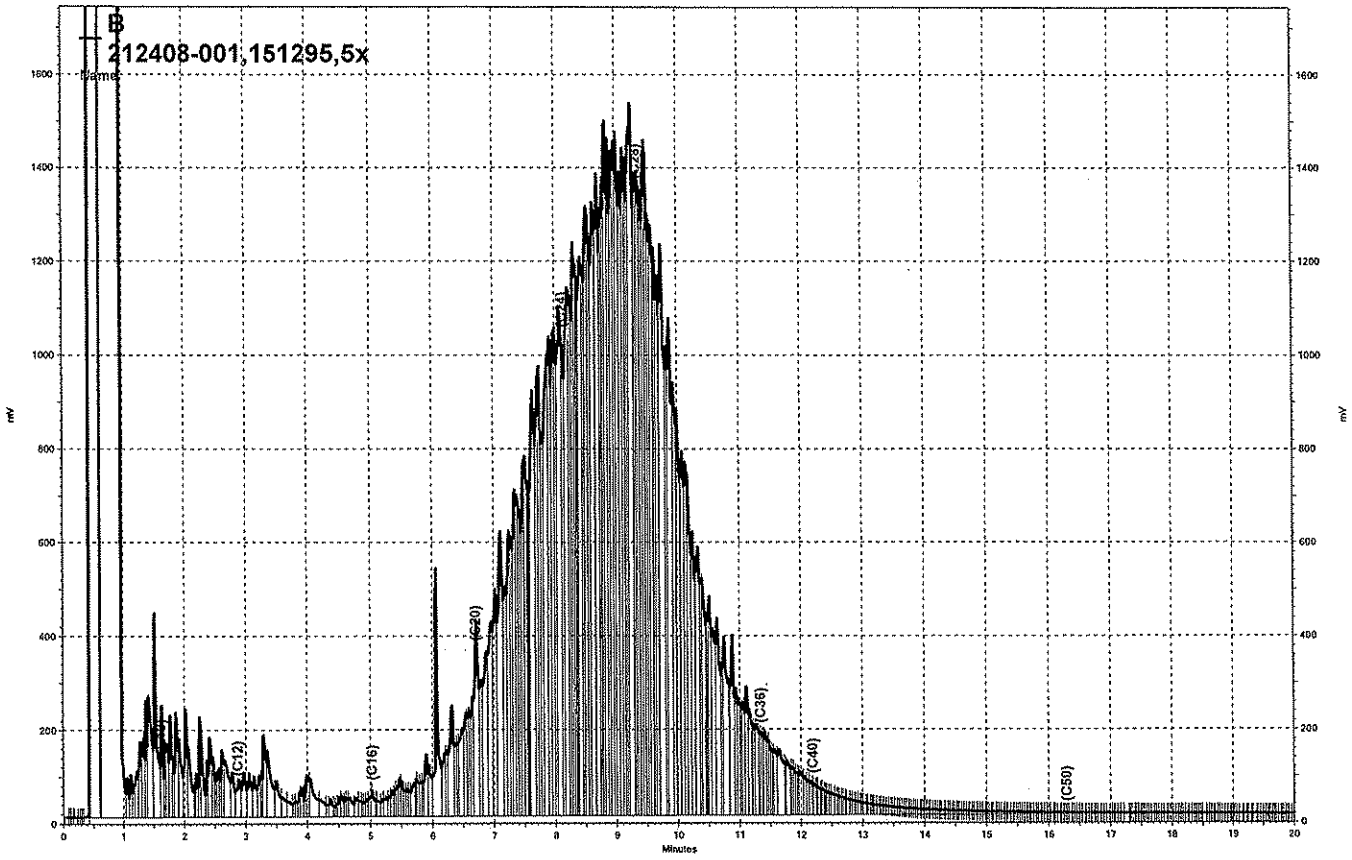
Surrogate	%REC	Limits
o-Terphenyl	103	53-133

Type: MSD Lab ID: QC497180

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.65	49.59	94	33-145	1	44

Surrogate	%REC	Limits
o-Terphenyl	103	53-133

RPD= Relative Percent Difference



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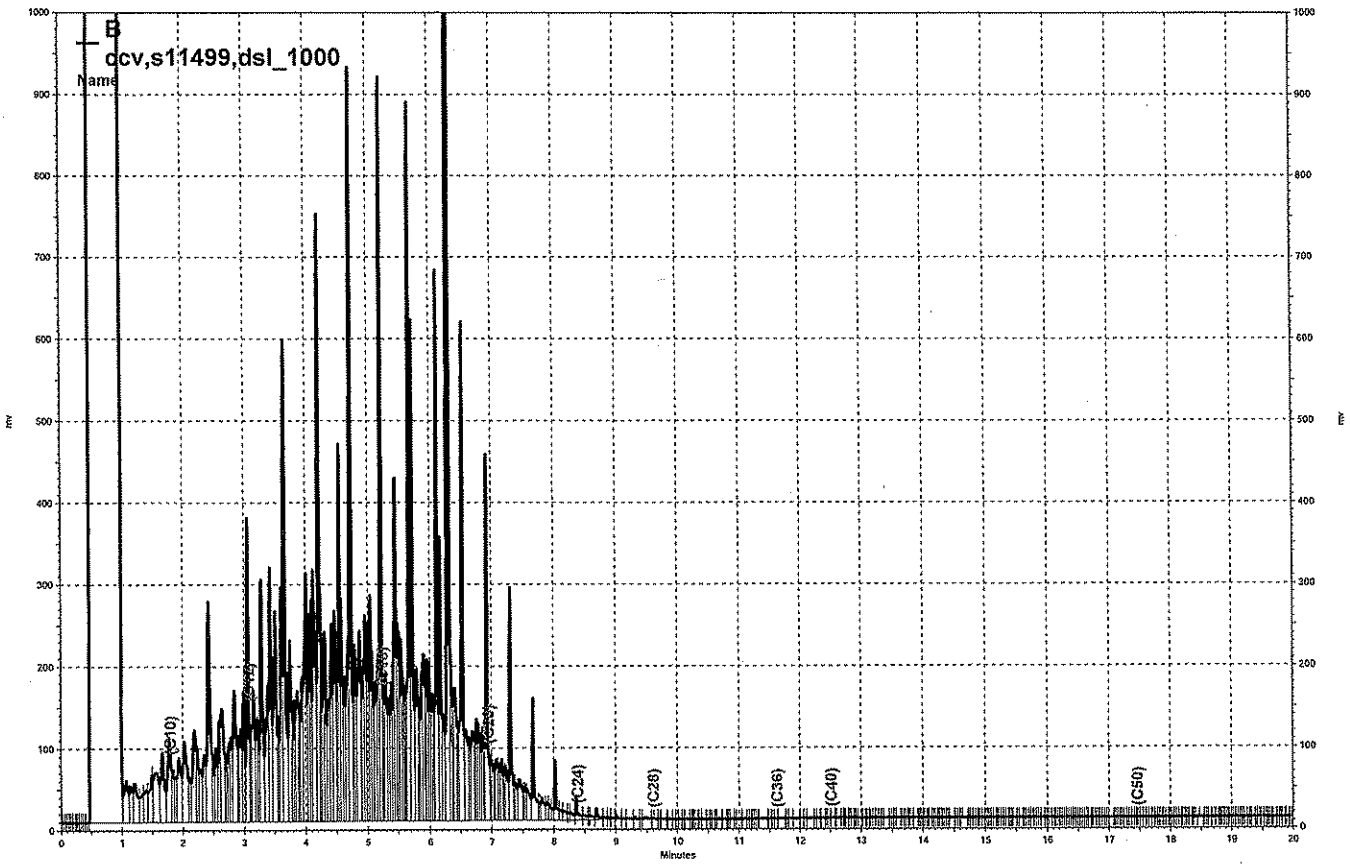

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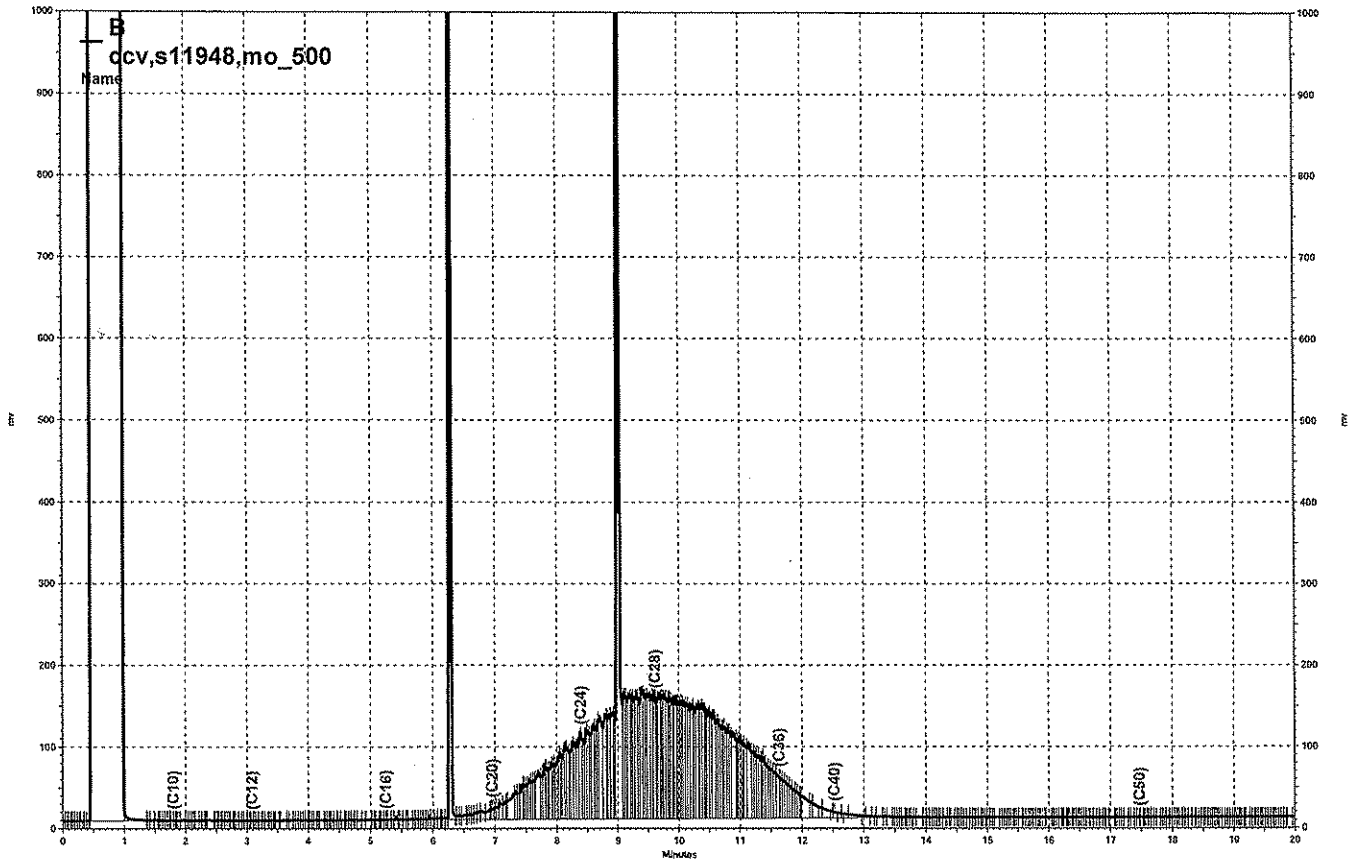

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8260B
Field ID:	EX-1	Diln Fac:	100.0
Lab ID:	212408-001	Batch#:	151282
Matrix:	Soil	Sampled:	05/22/09
Units:	ug/Kg	Received:	05/22/09
Basis:	as received	Analyzed:	05/22/09

Analyte	Result	RL
Freon 12	ND	1,000
Chloromethane	ND	1,000
Vinyl Chloride	ND	1,000
Bromomethane	ND	1,000
Chloroethane	ND	1,000
Trichlorofluoromethane	ND	500
Acetone	ND	1,000
Freon 113	ND	500
1,1-Dichloroethene	ND	500
Methylene Chloride	ND	2,000
Carbon Disulfide	ND	500
MTBE	ND	500
trans-1,2-Dichloroethene	ND	500
Vinyl Acetate	ND	5,000
1,1-Dichloroethane	ND	500
2-Butanone	ND	1,000
cis-1,2-Dichloroethene	ND	500
2,2-Dichloropropane	ND	500
Chloroform	ND	500
Bromochloromethane	ND	500
1,1,1-Trichloroethane	ND	500
1,1-Dichloropropene	ND	500
Carbon Tetrachloride	ND	500
1,2-Dichloroethane	ND	500
Benzene	ND	500
Trichloroethene	ND	500
1,2-Dichloropropane	ND	500
Bromodichloromethane	ND	500
Dibromomethane	ND	500
4-Methyl-2-Pentanone	ND	1,000
cis-1,3-Dichloropropene	ND	500
Toluene	ND	500
trans-1,3-Dichloropropene	ND	500
1,1,2-Trichloroethane	ND	500
2-Hexanone	ND	1,000
1,3-Dichloropropane	ND	500
Tetrachloroethene	ND	500

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8260B
Field ID:	EX-1	Diln Fac:	100.0
Lab ID:	212408-001	Batch#:	151282
Matrix:	Soil	Sampled:	05/22/09
Units:	ug/Kg	Received:	05/22/09
Basis:	as received	Analyzed:	05/22/09

Analyte	Result	RL
Dibromochloromethane	ND	500
1,2-Dibromoethane	ND	500
Chlorobenzene	ND	500
1,1,1,2-Tetrachloroethane	ND	500
Ethylbenzene	1,000	500
m,p-Xylenes	3,200	500
o-Xylene	2,100	500
Styrene	ND	500
Bromoform	ND	500
Isopropylbenzene	ND	500
1,1,2,2-Tetrachloroethane	ND	500
1,2,3-Trichloropropane	ND	500
Propylbenzene	1,800	500
Bromobenzene	ND	500
1,3,5-Trimethylbenzene	4,600	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
tert-Butylbenzene	ND	500
1,2,4-Trimethylbenzene	18,000	500
sec-Butylbenzene	590	500
para-Isopropyl Toluene	510	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
n-Butylbenzene	2,100	500
1,2-Dichlorobenzene	ND	500
1,2-Dibromo-3-Chloropropane	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
Naphthalene	8,800	500
1,2,3-Trichlorobenzene	ND	500

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-128
1,2-Dichloroethane-d4	86	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	98	77-131
Trifluorotoluene (MeOH)	122	56-147

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC497125	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151282
Units:	ug/Kg	Analyzed:	05/22/09

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC497125	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151282
Units:	ug/Kg	Analyzed:	05/22/09

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	91	71-128
1,2-Dichloroethane-d4	87	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	90	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.X	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	151282
Basis:	as received	Analyzed:	05/22/09

Type: BS Lab ID: QC497126

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	22.80	91	73-135
Benzene	25.00	27.84	111	80-125
Trichloroethene	25.00	26.05	104	80-127
Toluene	25.00	27.77	111	80-126
Chlorobenzene	25.00	26.14	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	71-128
1,2-Dichloroethane-d4	84	69-135
Toluene-d8	97	80-120
Bromofluorobenzene	87	77-131

Type: BSD Lab ID: QC497127

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.95	88	73-135	4	20
Benzene	25.00	26.57	106	80-125	5	20
Trichloroethene	25.00	24.79	99	80-127	5	20
Toluene	25.00	28.03	112	80-126	1	20
Chlorobenzene	25.00	26.36	105	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	92	71-128
1,2-Dichloroethane-d4	86	69-135
Toluene-d8	98	80-120
Bromofluorobenzene	89	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #: 212408		Project#:	1141.X
Client: Northgate Environmental Management		Location:	3645 San Pablo
Field ID:	EX-1	Basis:	as received
Lab ID:	212408-001	Sampled:	05/22/09
Matrix:	Soil	Received:	05/22/09
Units:	mg/Kg	Analyzed:	05/26/09

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Prep	Analysis
Antimony	1.1	0.50	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Arsenic	5.6	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Barium	280	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Beryllium	0.43	0.10	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Cadmium	0.52	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Chromium	30	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Cobalt	9.0	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Copper	15	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Lead	900	1.5	10.00	151314	05/22/09	EPA 3050B	EPA 6010B
Mercury	0.050	0.020	1.000	151344	05/26/09	METHOD	EPA 7471A
Molybdenum	1.2	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Nickel	40	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Vanadium	28	0.25	1.000	151314	05/22/09	EPA 3050B	EPA 6010B
Zinc	94	1.0	1.000	151314	05/22/09	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.X	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC497274	Batch#:	151314
Matrix:	Soil	Prepared:	05/22/09
Units:	mg/Kg	Analyzed:	05/26/09
Basis:	as received		

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.X	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	151314
Units:	mg/Kg	Prepared:	05/22/09
Basis:	as received	Analyzed:	05/26/09
Diln Fac:	1.000		

Type: BS Lab ID: QC497275

Analyte	Spiked	Result	%REC	Limits
Antimony	25.00	25.24	101	80-120
Arsenic	25.00	24.91	100	80-120
Barium	25.00	23.98	96	80-120
Beryllium	25.00	25.33	101	80-120
Cadmium	25.00	25.30	101	80-120
Chromium	25.00	24.19	97	80-120
Cobalt	25.00	23.23	93	80-120
Copper	25.00	23.13	93	80-120
Lead	25.00	23.61	94	80-120
Molybdenum	25.00	25.67	103	80-120
Nickel	25.00	23.89	96	80-120
Selenium	25.00	24.43	98	80-120
Silver	25.00	24.20	97	80-120
Thallium	25.00	23.15	93	80-120
Vanadium	25.00	24.94	100	80-120
Zinc	25.00	24.28	97	80-120

Type: BSD Lab ID: QC497276

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	25.00	24.42	98	80-120	3	20
Arsenic	25.00	24.31	97	80-120	2	20
Barium	25.00	23.26	93	80-120	3	20
Beryllium	25.00	24.52	98	80-120	3	20
Cadmium	25.00	24.51	98	80-120	3	20
Chromium	25.00	23.45	94	80-120	3	20
Cobalt	25.00	22.55	90	80-120	3	20
Copper	25.00	22.34	89	80-120	3	20
Lead	25.00	23.09	92	80-120	2	20
Molybdenum	25.00	25.00	100	80-120	3	20
Nickel	25.00	23.35	93	80-120	2	20
Selenium	25.00	23.91	96	80-120	2	20
Silver	25.00	23.45	94	80-120	3	20
Thallium	25.00	22.63	91	80-120	2	20
Vanadium	25.00	24.27	97	80-120	3	20
Zinc	25.00	23.50	94	80-120	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.X	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	151314
MSS Lab ID:	212301-001	Sampled:	05/19/09
Matrix:	Soil	Received:	05/19/09
Units:	mg/Kg	Prepared:	05/22/09
Basis:	as received	Analyzed:	05/26/09
Diln Fac:	1.000		

Type: MS Lab ID: QC497277

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.4842	24.51	9.490	37	5-120
Arsenic	3.352	24.51	25.14	89	65-120
Barium	55.45	24.51	86.92	128	40-141
Beryllium	0.1940	24.51	23.64	96	75-120
Cadmium	0.1035	24.51	22.97	93	63-120
Chromium	33.15	24.51	58.75	104	52-128
Cobalt	5.031	24.51	26.06	86	50-120
Copper	6.603	24.51	28.80	91	38-149
Lead	17.92	24.51	87.12	282 *	49-124
Molybdenum	0.3962	24.51	22.09	89	62-120
Nickel	25.36	24.51	47.69	91	34-148
Selenium	<0.08463	24.51	21.56	88	63-120
Silver	<0.03127	24.51	22.62	92	66-120
Thallium	<0.1005	24.51	19.50	80	57-120
Vanadium	36.00	24.51	59.33	95	41-146
Zinc	40.38	24.51	92.36	212 *	25-159

Type: MSD Lab ID: QC497278

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	23.81	9.621	38	5-120	4	31
Arsenic	23.81	24.66	89	65-120	1	24
Barium	23.81	76.19	87	40-141	12	31
Beryllium	23.81	22.44	93	75-120	2	21
Cadmium	23.81	21.71	91	63-120	3	20
Chromium	23.81	60.48	115	52-128	4	25
Cobalt	23.81	25.16	85	50-120	1	26
Copper	23.81	26.54	84	38-149	6	28
Lead	23.81	39.06	89	49-124	75 *	31
Molybdenum	23.81	21.25	88	62-120	1	20
Nickel	23.81	45.26	84	34-148	4	30
Selenium	23.81	21.01	88	63-120	0	20
Silver	23.81	21.55	91	66-120	2	20
Thallium	23.81	18.47	78	57-120	3	20
Vanadium	23.81	58.78	96	41-146	0	24
Zinc	23.81	64.17	100	25-159	35 *	33

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.X	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC497376	Batch#:	151344
Matrix:	Soil	Prepared:	05/26/09
Units:	mg/Kg	Analyzed:	05/26/09

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.X	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	151344
Units:	mg/Kg	Prepared:	05/26/09
Basis:	as received	Analyzed:	05/26/09

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC497377	0.5000	0.4940	99	80-120		
BSD	QC497378	0.5000	0.5030	101	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	212408	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.X	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	151344
MSS Lab ID:	212329-001	Sampled:	05/20/09
Matrix:	Soil	Received:	05/21/09
Units:	mg/Kg	Prepared:	05/26/09
Basis:	as received	Analyzed:	05/26/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC497379	0.01130	0.4808	0.5144	105	64-138		
MSD	QC497380		0.5102	0.5929	114	64-138	8	27

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	212413	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	WET
Project#:	1141.X	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	151518
Field ID:	EX-1	Sampled:	05/22/09
Matrix:	WET Leachate	Received:	05/22/09
Units:	ug/L	Prepared:	05/30/09
Diln Fac:	10.00	Analyzed:	06/01/09

Type	Lab ID	Result	RL
SAMPLE	212413-001	110,000	150
BLANK	QC498080	ND	150

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

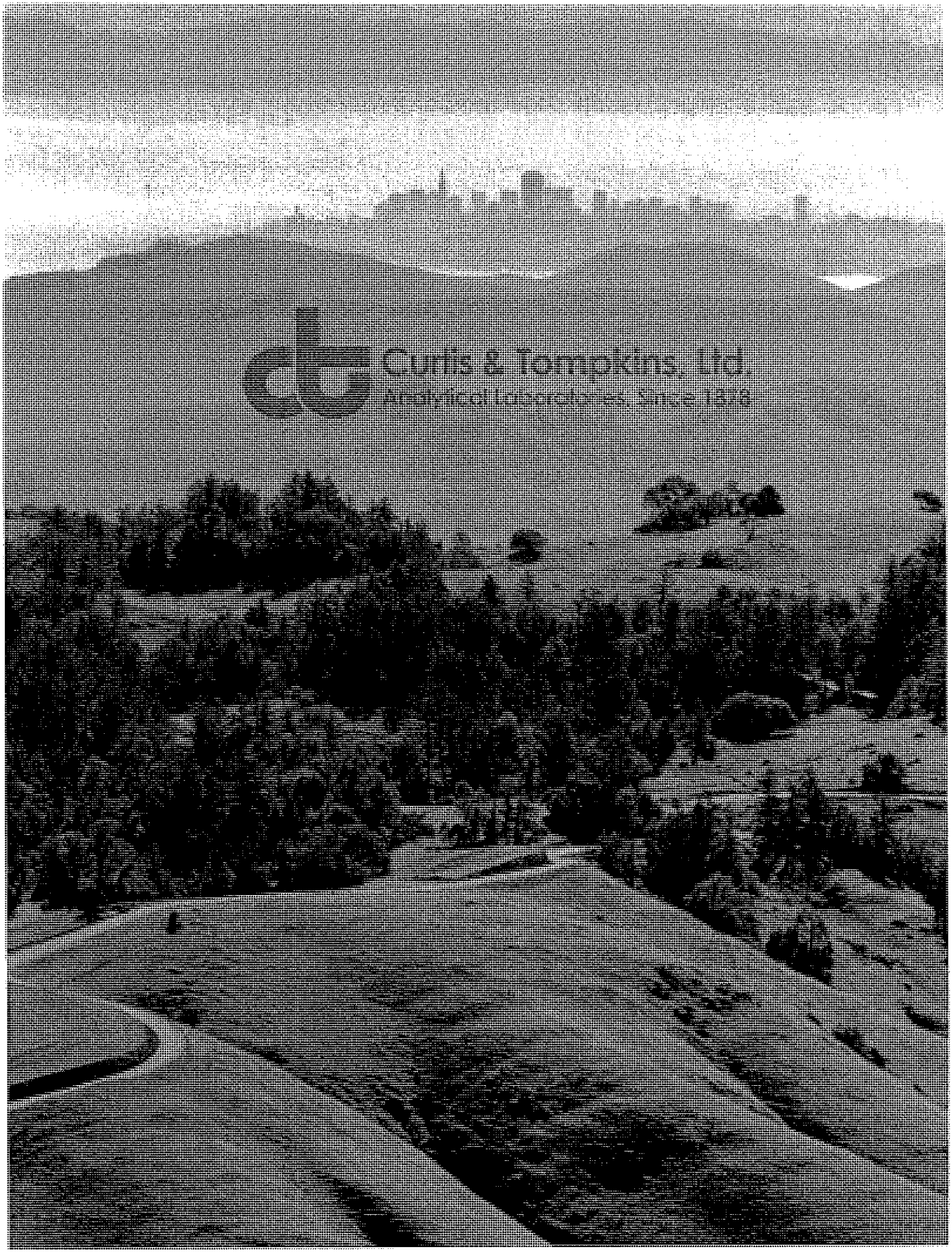
Batch QC Report

Lead

Lab #:	212413	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	WET
Project#:	1141.X	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	151518
Field ID:	EX-1	Sampled:	05/22/09
MSS Lab ID:	212413-001	Received:	05/22/09
Matrix:	WET Leachate	Prepared:	05/30/09
Units:	ug/L	Analyzed:	06/01/09

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac
BS	QC498081		2,000	2,061	103	80-120			1.000
BSD	QC498082		2,000	2,045	102	80-120	1	20	1.000
MS	QC498083	109,700	10,000	116,700	70 NM	68-120			10.00
MSD	QC498084		10,000	127,400	177 NM	68-120	9	20	10.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference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Analytical Laboratories Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 212584
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.X
300 Frank H. Ogawa Plaza	Location : 3645 San Pablo
Oakland, CA 94612	Level : II

Sample ID	Lab ID
EX-1A	212584-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 06/09/2009
Project Manager

Signature: _____ Date: 06/10/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	212584
Client:	Northgate Environmental Management
Project:	1141.X
Location:	3645 San Pablo
Request Date:	06/03/09
Samples Received:	06/03/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/03/09. The sample was received intact.

Metals (EPA 6010B):
No analytical problems were encountered.

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Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 212584

Sampler: Dennis Laduzinsky

Project No.: 1141.X

Report To: dennis.laduzinsky@ngem.com

Project Name: San Pablo Ave

Company: Northgate

Project P.O.: 1141.08

Telephone: 510-839-0688 x202

Turnaround Time: one week

Fax:

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste		# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE		Analysis: TCLP - Lead
	EX-1A	6/3/09; 1145	X				1						X

Notes:

SAMPLE RECEIPT
☒ Intact ☐ Cold
☐ On Ice ☐ Ambient

Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY:	RECEIVED BY:
6/3/09 1200 DATE / TIME	Pat Hongly 6/3/09 1200 DATE / TIME
DATE / TIME	DATE / TIME
DATE / TIME	DATE / TIME

SIGNATURE

2 of

Curtis & Tompkins, Ltd.

Lead

Lab #:	212584	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3010A
Project#:	1141.X	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	151793
Field ID:	EX-1A	Sampled:	06/03/09
Matrix:	TCLP Leachate	Received:	06/03/09
Units:	ug/L	Prepared:	06/08/09
Diln Fac:	10.00	Analyzed:	06/09/09

Type	Lab ID	Result	RL
SAMPLE	212584-001	1,600	30
BLANK	QC499199	ND	30

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

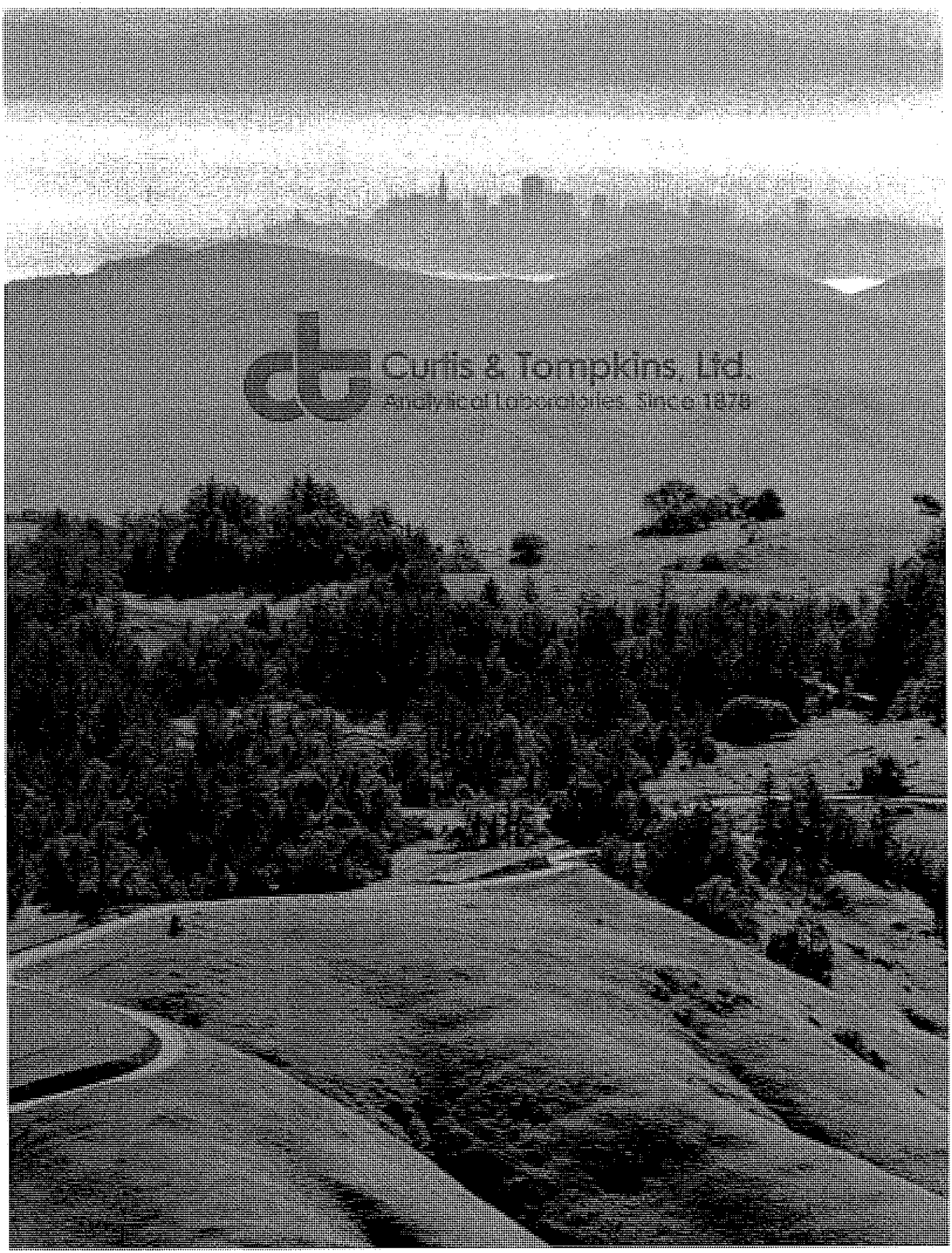
Batch QC Report

Lead

Lab #:	212584	Location:	3645 San Pablo
Client:	Northgate Environmental Management	Prep:	EPA 3010A
Project#:	1141.X	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	06/03/09
Field ID:	EX-1A	Received:	06/03/09
MSS Lab ID:	212584-001	Prepared:	06/08/09
Units:	ug/L	Analyzed:	06/09/09
Batch#:	151793		

Type	Lab ID	Matrix	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac
BS	QC499200	Water		2,000	1,775	89	80-120			1.000
BSD	QC499201	Water		2,000	1,633	82	80-120	8	20	1.000
MS	QC499202	TCLP Leachate	1,646	2,000	3,536	95	68-120			10.00
MSD	QC499203	TCLP Leachate		2,000	3,678	102	68-120	4	20	10.00

RPD= Relative Percent Difference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Laboratory Job Number 213332
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.08
300 Frank H. Ogawa Plaza	Location : Placeworks
Oakland, CA 94612	Level : II

Sample ID	Lab ID
B01-2.5	213332-001
B06-4.0	213332-002
B12-3.0	213332-003
B13-4.0	213332-004
B16-2.5	213332-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/13/2009
Project Manager

Signature: _____ Date: 07/13/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**213332**
Client:	**Northgate Environmental Management**
Project:	**1141.08**
Location:	**Placeworks**
Request Date:	**07/07/09**
Samples Received:	**07/07/09**

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 07/07/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in the method blank for batch 152696; no target analytes were detected in the sample. High surrogate recoveries were observed for trifluorotoluene (FID) in the method blank/MS/MSD for batch 152696. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
B12-3.0 (lab # 213332-003) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

213352

northgate environmental management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.:	1141.08	Project Location:	Emeryville, CA	Date:	7/2/2009
Project Name:	~~Placeworks~~ Placeworks	Field Logbook No.:			
Sampler (Signature)					

Samples						ANALYSES										Samplers: JWO
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	TPH gas, diesel, motor oil	VOCs (8260B)	5 LUFT Metals						HOLD	RUSH	REMARKS
1 B01-2.5	7/2/2009	1350		1	Soil	X	X	X							X	**RUSH = 72 Hour TAT**
2 B06-4.0	7/2/2009	1440		1	Soil	X	X	X							X	
3 B12-3.0	7/2/2009	1600		1	Soil	X	X	X							X	**Report results to:**
4 B13-4.0	7/2/2009	1630		1	Soil	X	X	X							X	dennis.laduzinsky@ngem.com
5 ~~B16-5.0~~ B16-2.5	7/2/2009	1700		1	Soil	X	X	X							X	josh.otis@ngem.com

Relinquished by: (Signature)		Date 7/7/09	Time 1352	Received By: (Signature)		Date 7/7/09	Time 1752
Relinquished by: (Signature)		Date	Time	Received By: (Signature)		Date	Time
Method of Shipment:		Date	Time	**Comments:**			

Sample Collector:	Northgate Environmental Management, Inc. 300 Frank H Ogawa Plaza, Suite 510 Oakland, California 94612 ph - (510) 839 0688 / fax - (510) 839-4350
Analytical Laboratory:	Curtis & Tompkins

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 213332 Date Received 7/7/09 Number of coolers 1
Client PG&E Project EMERYVILLE, CA / PLXCRWORKS

Date Opened 7/7/09 By (print) M. VILLANUEVA (sign)
Date Logged in V By (print) V (sign) V

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☑ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☐ Wet ☑ Blue/Gel ☐ None Temp(°C) _____

☑ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
16. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	152696
Units:	mg/Kg	Sampled:	07/02/09
Basis:	as received	Received:	07/07/09
Diln Fac:	1.000	Analyzed:	07/08/09

Field ID: B01-2.5 Lab ID: 213332-001
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	54-152
Bromofluorobenzene (FID)	119	50-152

Field ID: B06-4.0 Lab ID: 213332-002
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	54-152
Bromofluorobenzene (FID)	113	50-152

Field ID: B12-3.0 Lab ID: 213332-003
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	1.4 Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	54-152
Bromofluorobenzene (FID)	121	50-152

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	152696
Units:	mg/Kg	Sampled:	07/02/09
Basis:	as received	Received:	07/07/09
Diln Fac:	1.000	Analyzed:	07/08/09

Field ID: B13-4.0 Lab ID: 213332-004
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	4.3 Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	54-152
Bromofluorobenzene (FID)	121	50-152

Field ID: B16-2.5 Lab ID: 213332-005
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	54-152
Bromofluorobenzene (FID)	108	50-152

Type: BLANK Lab ID: QC502788

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	288 *	54-152
Bromofluorobenzene (FID)	276 *	50-152

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC502789	Batch#:	152696
Matrix:	Soil	Analyzed:	07/09/09
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.595	96	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	145	54-152
Bromofluorobenzene (FID)	144	50-152

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	213260-002	Batch#:	152696
Matrix:	Soil	Sampled:	07/01/09
Units:	mg/Kg	Received:	07/01/09
Basis:	as received	Analyzed:	07/08/09

Type: MS Lab ID: QC502790

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.01197	1.672	1.117	67	31-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	157 *	54-152
Bromofluorobenzene (FID)	130	50-152

Type: MSD Lab ID: QC502791

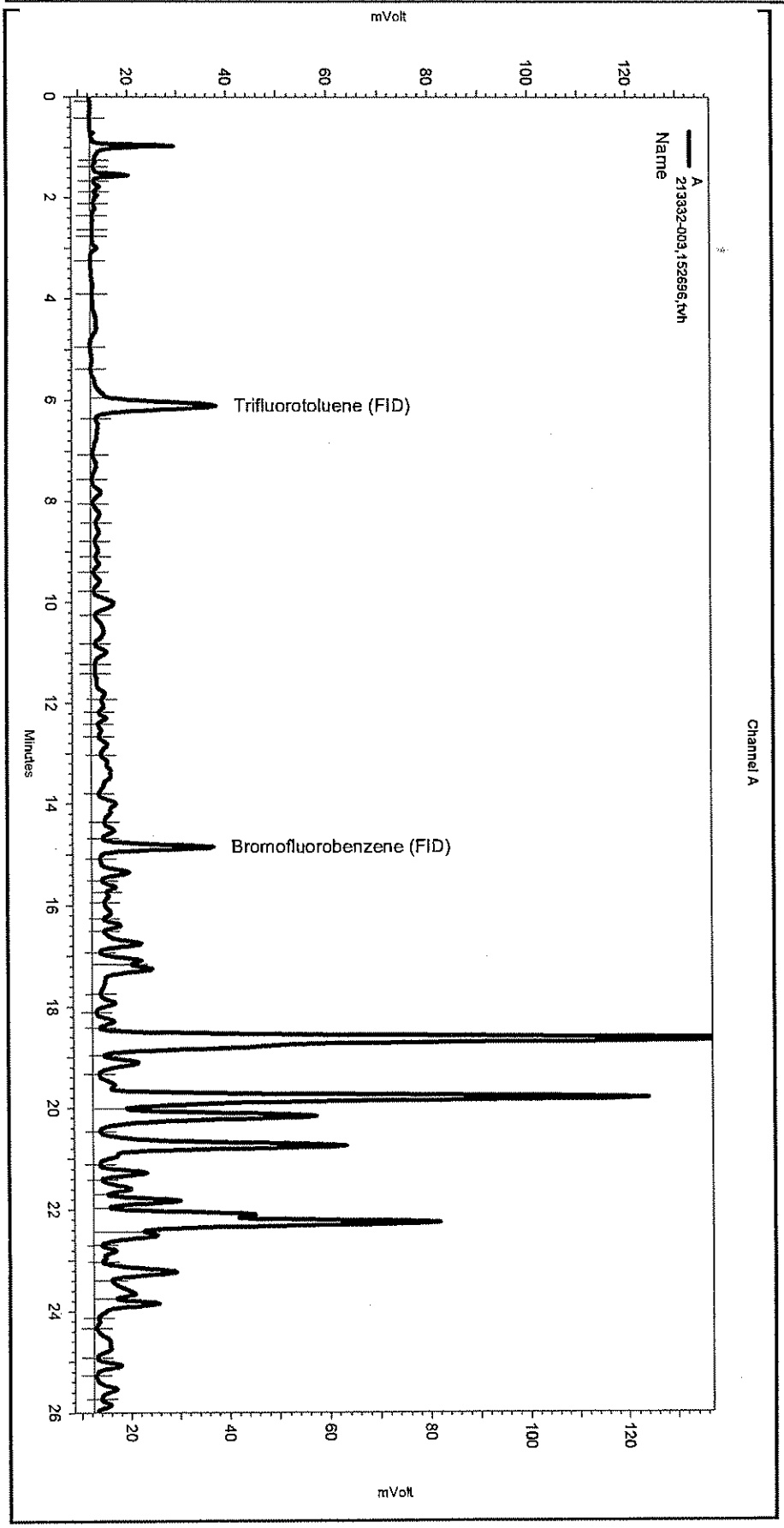
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.718	1.219	71	31-120	6	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	157 *	54-152
Bromofluorobenzene (FID)	126	50-152

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\189.seq
Sample Name: **213332-003,152696,tvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_013
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe188.met

Software Version 3.1.7
Run Date: 7/8/2009 10:22:03 PM
Analysis Date: 7/9/2009 10:21:27 AM
Sample Amount: 0.98 Multiplier: 0.98
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

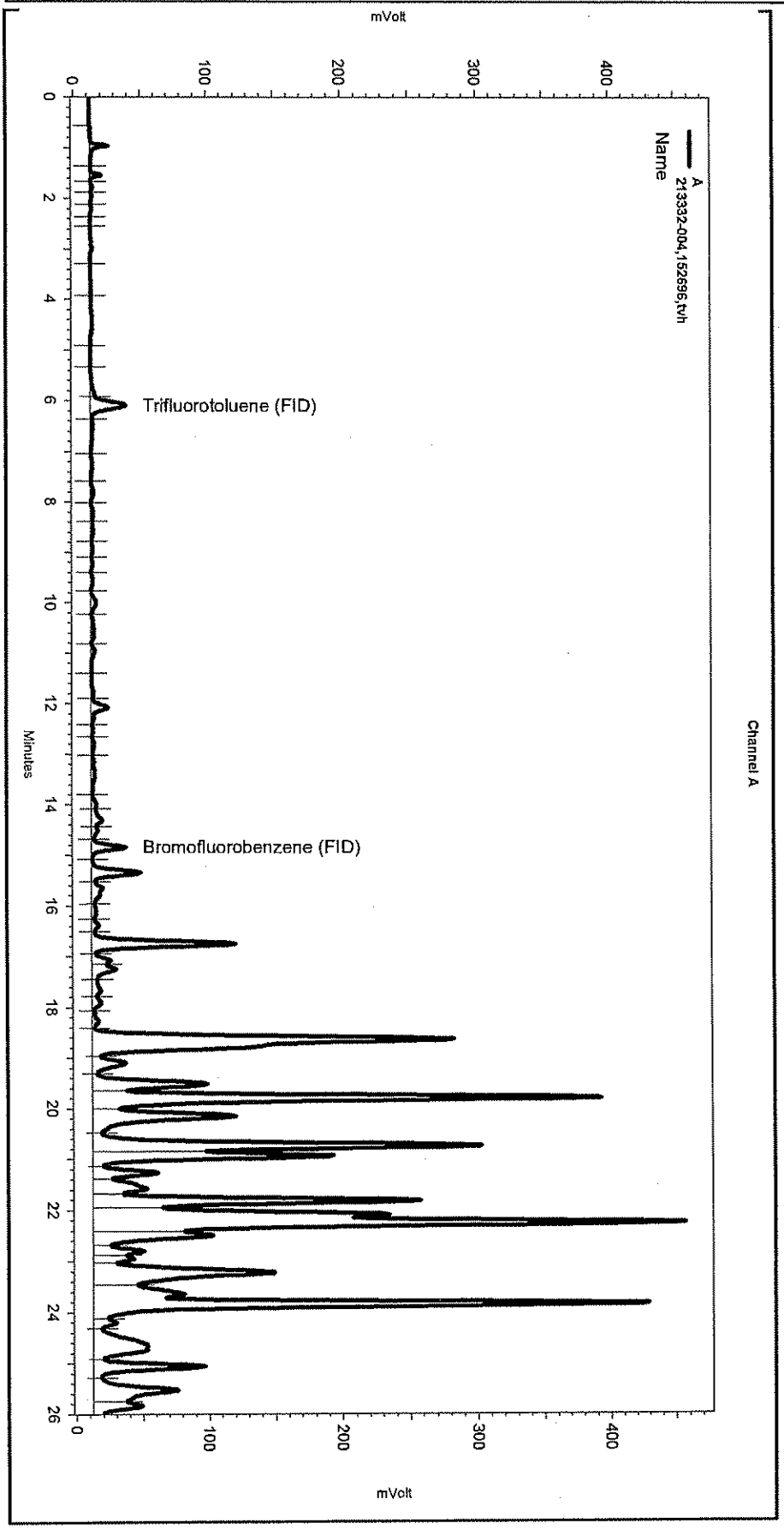
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.955	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\189.seq
Sample Name: **213332-004,152696,tvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_014
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe188.met

Software Version 3.1.7
Run Date: 7/8/2009 10:59:39 PM
Analysis Date: 7/9/2009 10:21:31 AM
Sample Amount: 0.99 Multiplier: 0.99
Vial & pH or Core ID: a



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

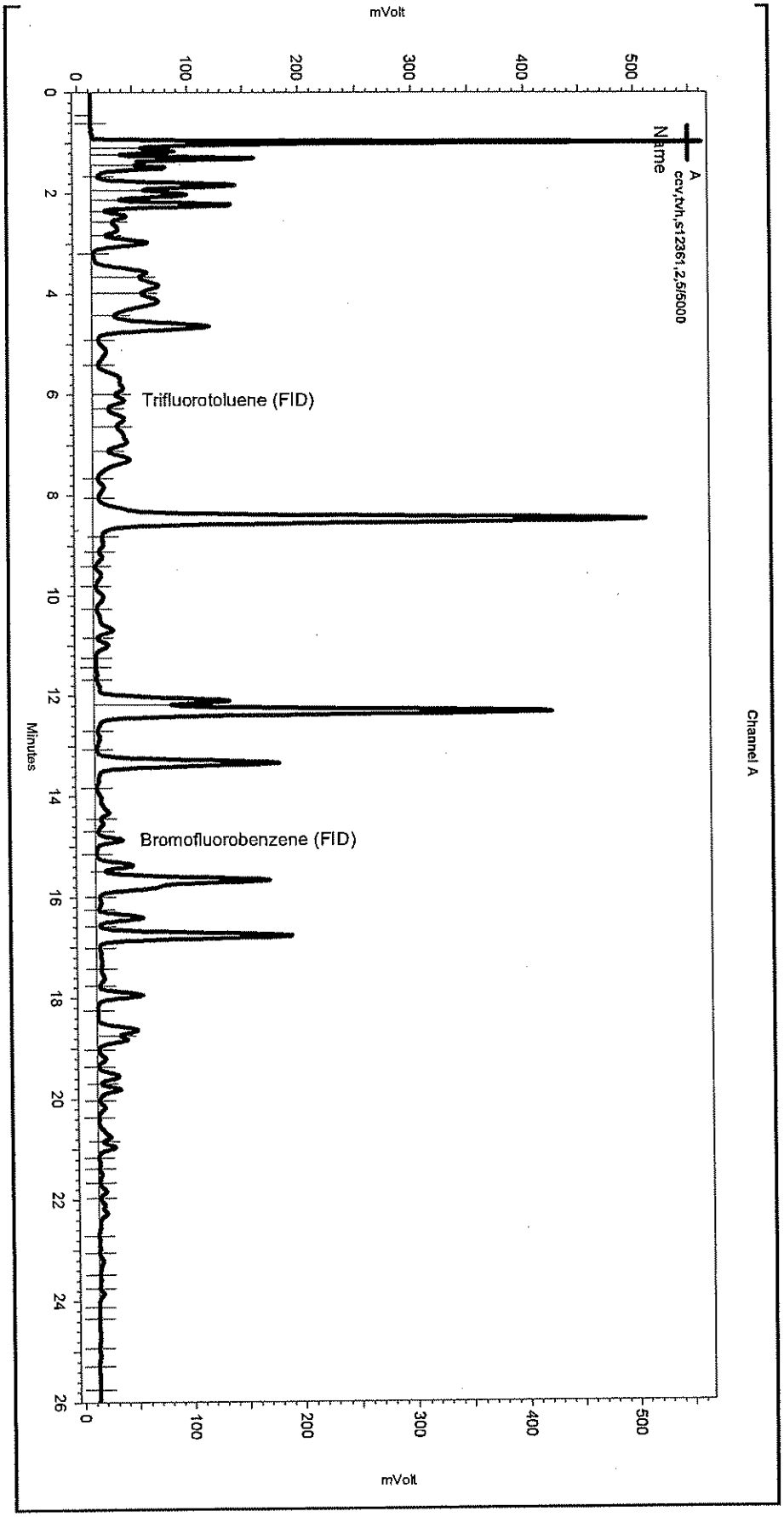
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.921	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\189.seq
Sample Name: **ccv,tvh,s12361,2.5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_004
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe188.met

Software Version 3.1.7
Run Date: 7/8/2009 2:03:45 PM
Analysis Date: 7/9/2009 10:04:36 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\189_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	07/02/09
Units:	mg/Kg	Received:	07/07/09
Basis:	as received	Prepared:	07/08/09
Batch#:	152693		

Field ID:	B01-2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/10/09
Lab ID:	213332-001		

Analyte	Result	RL
Diesel C10-C24	57 Y	1.0
Motor Oil C24-C36	230	5.0

Surrogate	%REC	Limits
o-Terphenyl	58	53-133

Field ID:	B06-4.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/10/09
Lab ID:	213332-002		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	54	53-133

Field ID:	B12-3.0	Diln Fac:	20.00
Type:	SAMPLE	Analyzed:	07/10/09
Lab ID:	213332-003		

Analyte	Result	RL
Diesel C10-C24	150 Y	20
Motor Oil C24-C36	530	100

Surrogate	%REC	Limits
o-Terphenyl	DO	53-133

Field ID:	B13-4.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/10/09
Lab ID:	213332-004		

Analyte	Result	RL
Diesel C10-C24	36 Y	0.99
Motor Oil C24-C36	46	5.0

Surrogate	%REC	Limits
o-Terphenyl	55	53-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	07/02/09
Units:	mg/Kg	Received:	07/07/09
Basis:	as received	Prepared:	07/08/09
Batch#:	152693		

Field ID:	B16-2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/10/09
Lab ID:	213332-005		

Analyte	Result	RL
Diesel C10-C24	20 Y	1.0
Motor Oil C24-C36	75	5.0

Surrogate	%REC	Limits
o-Terphenyl	68	53-133

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC502777	Analyzed:	07/09/09

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	83	53-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC502778	Batch#:	152693
Matrix:	Soil	Prepared:	07/08/09
Units:	mg/Kg	Analyzed:	07/09/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.82	30.54	61	52-128

Surrogate	%REC	Limits
o-Terphenyl	59	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	152693
MSS Lab ID:	213293-008	Sampled:	07/01/09
Matrix:	Soil	Received:	07/02/09
Units:	mg/Kg	Prepared:	07/08/09
Basis:	as received	Analyzed:	07/10/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC502779

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.6010	50.01	34.86	68	33-145

Surrogate	%REC	Limits
o-Terphenyl	76	53-133

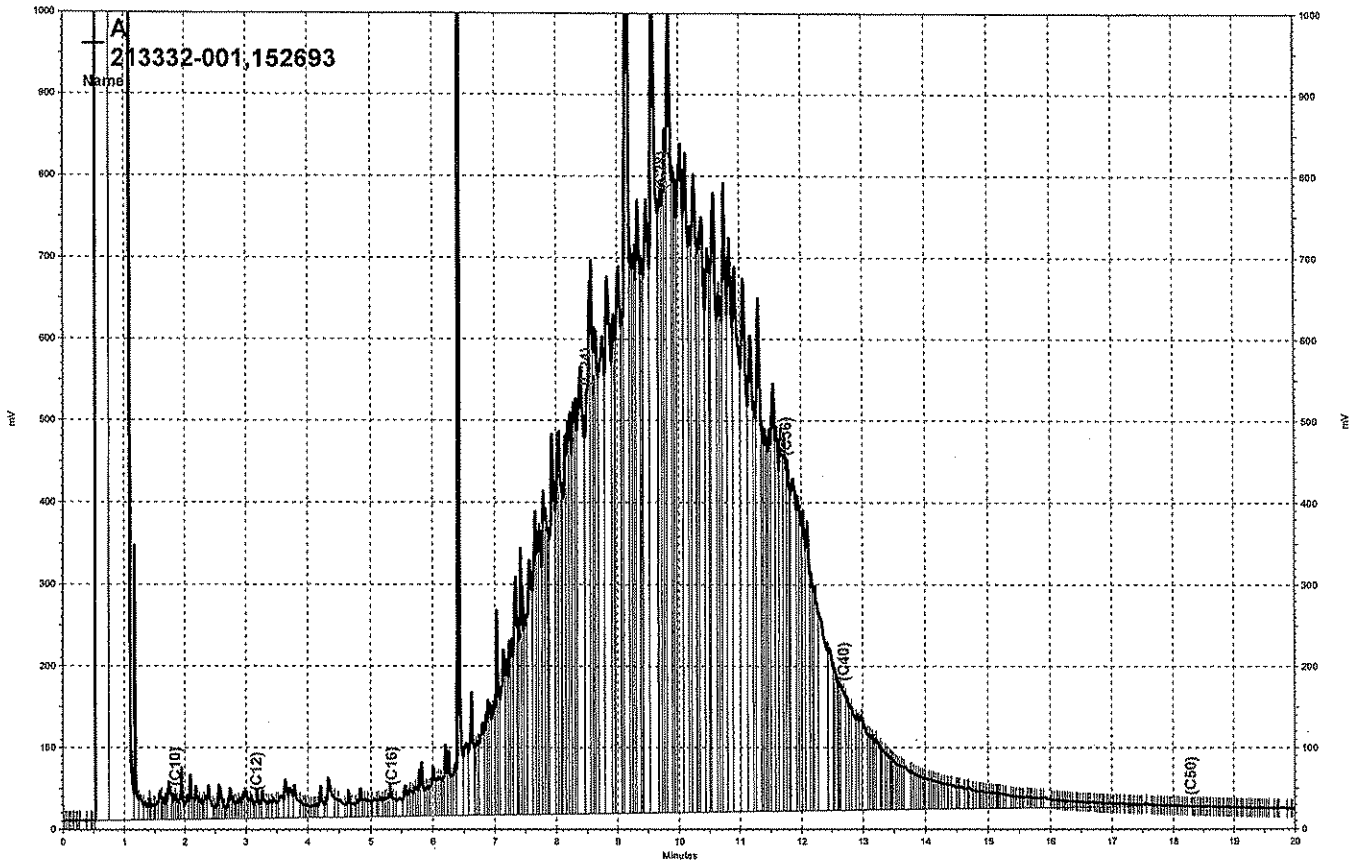
Type: MSD
Lab ID: QC502780

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.97	29.27	57	33-145	17	44

Surrogate	%REC	Limits
o-Terphenyl	63	53-133

RPD= Relative Percent Difference



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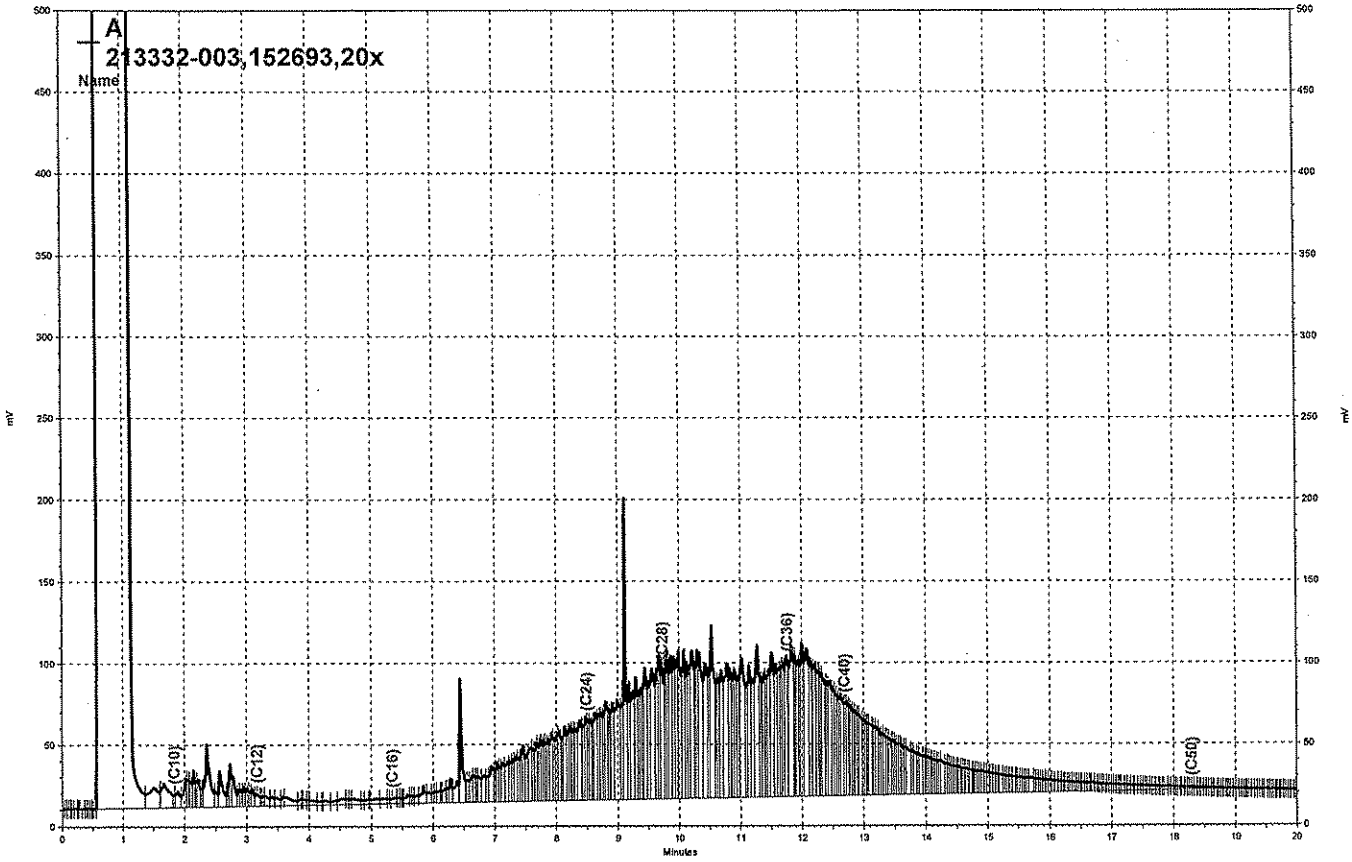

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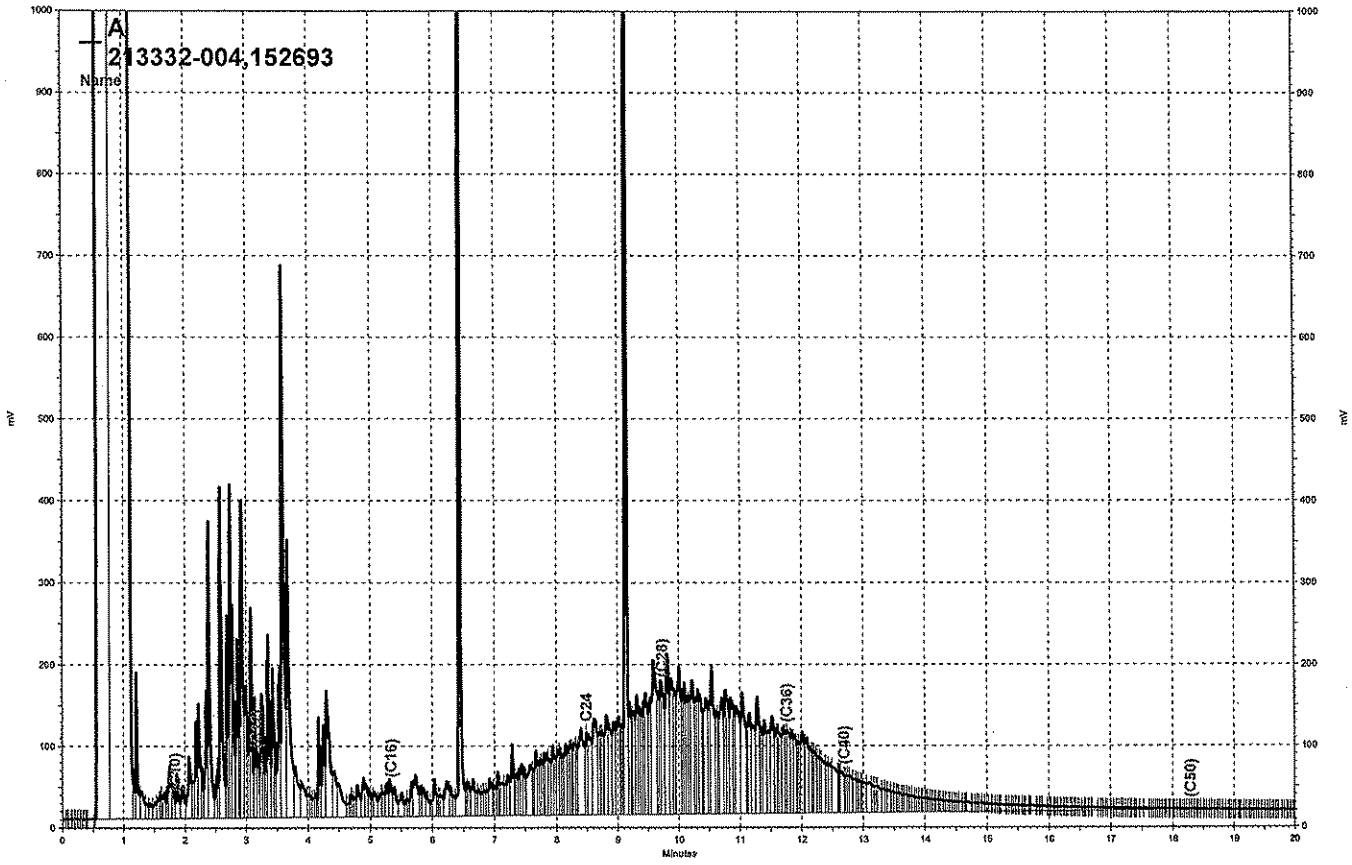

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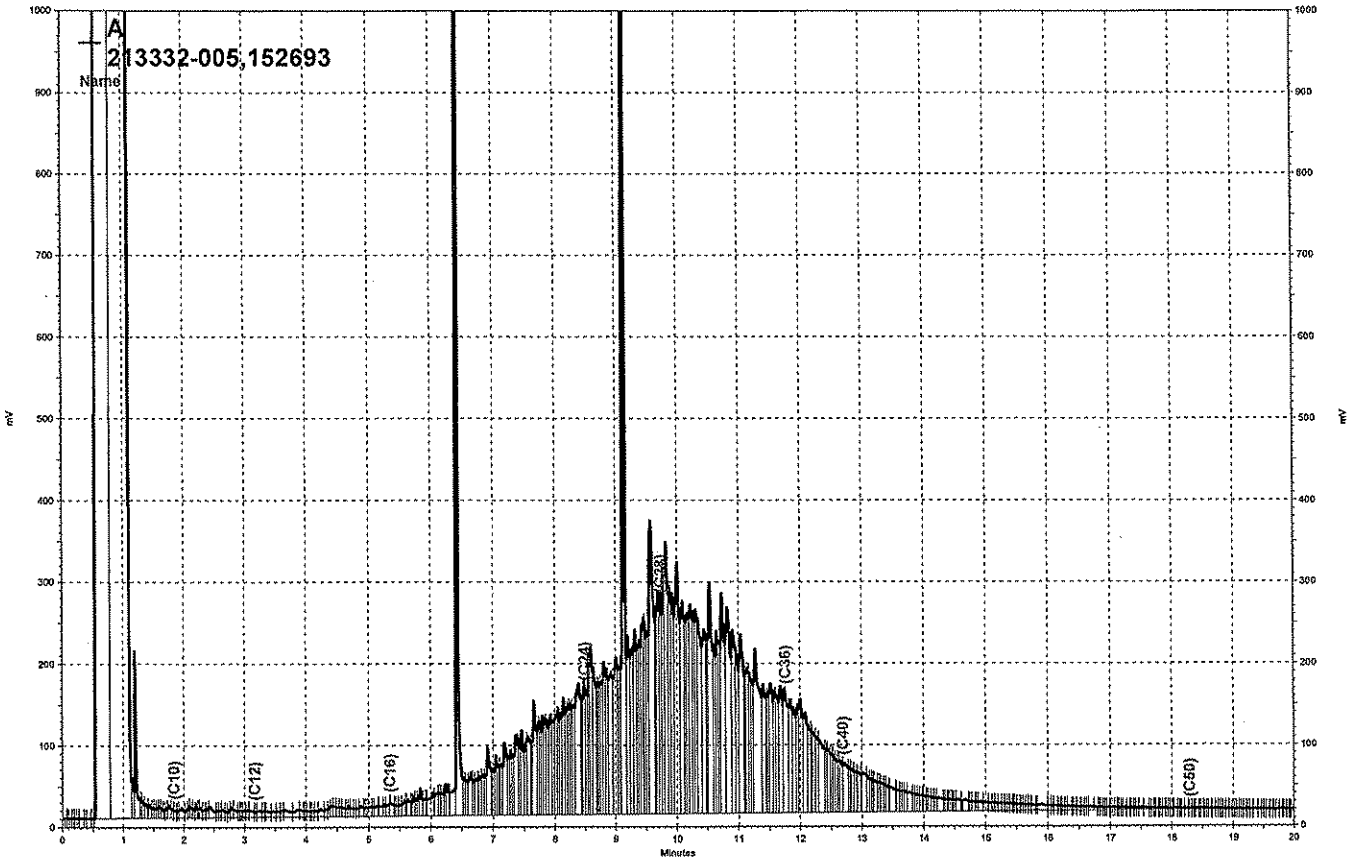

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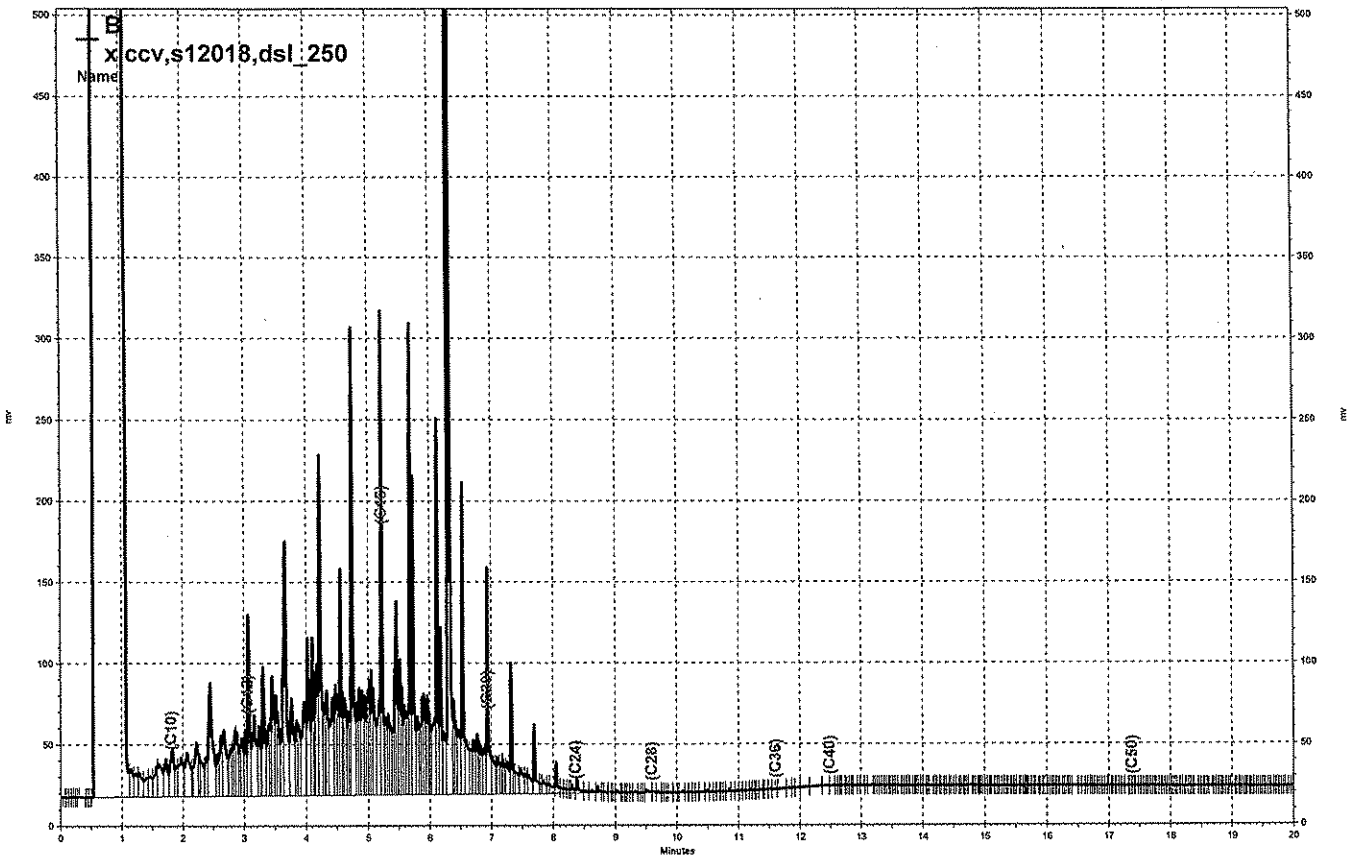

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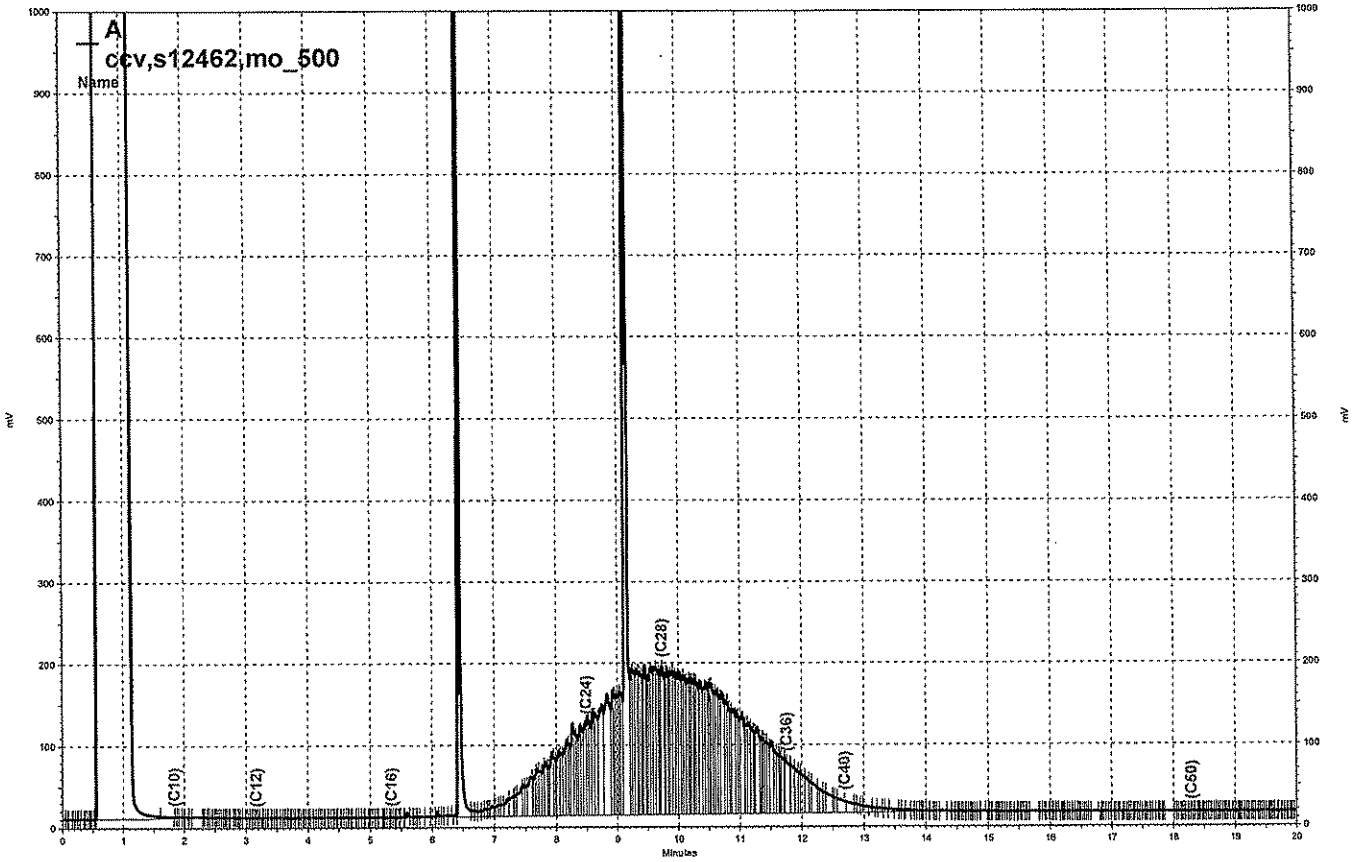

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B01-2.5	Diln Fac:	0.9560
Lab ID:	213332-001	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	40	9.6
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

9.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B01-2.5	Diln Fac:	0.9560
Lab ID:	213332-001	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	131	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	99	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B06-4.0	Diln Fac:	0.9542
Lab ID:	213332-002	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.8
Acetone	9.7	9.5
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

10.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B06-4.0	Diln Fac:	0.9542
Lab ID:	213332-002	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	98	71-128
1,2-Dichloroethane-d4	122	69-135
Toluene-d8	104	80-120
Bromofluorobenzene	99	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B12-3.0	Diln Fac:	0.9843
Lab ID:	213332-003	Batch#:	152727
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/09/09

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	66	9.8
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	11	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
RL= Reporting Limit

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B12-3.0	Diln Fac:	0.9843
Lab ID:	213332-003	Batch#:	152727
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/09/09

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	5.2	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	15	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	14	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	100	71-128
1,2-Dichloroethane-d4	132	69-135
Toluene-d8	104	80-120
Bromofluorobenzene	100	77-131

ND= Not Detected
RL= Reporting Limit

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B13-4.0	Diln Fac:	10.20
Lab ID:	213332-004	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Freon 12	ND	100
Chloromethane	ND	100
Vinyl Chloride	ND	100
Bromomethane	ND	100
Chloroethane	ND	100
Trichlorofluoromethane	ND	51
Acetone	ND	100
Freon 113	ND	51
1,1-Dichloroethene	ND	51
Methylene Chloride	ND	200
Carbon Disulfide	ND	51
MTBE	ND	51
trans-1,2-Dichloroethene	ND	51
Vinyl Acetate	ND	510
1,1-Dichloroethane	ND	51
2-Butanone	ND	100
cis-1,2-Dichloroethene	ND	51
2,2-Dichloropropane	ND	51
Chloroform	ND	51
Bromochloromethane	ND	51
1,1,1-Trichloroethane	ND	51
1,1-Dichloropropene	ND	51
Carbon Tetrachloride	ND	51
1,2-Dichloroethane	ND	51
Benzene	ND	51
Trichloroethene	ND	51
1,2-Dichloropropane	ND	51
Bromodichloromethane	ND	51
Dibromomethane	ND	51
4-Methyl-2-Pentanone	ND	100
cis-1,3-Dichloropropene	ND	51
Toluene	ND	51
trans-1,3-Dichloropropene	ND	51
1,1,2-Trichloroethane	ND	51
2-Hexanone	ND	100
1,3-Dichloropropane	ND	51
Tetrachloroethene	ND	51

ND= Not Detected
RL= Reporting Limit

12.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B13-4.0	Diln Fac:	10.20
Lab ID:	213332-004	Batch#:	152672
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Analyte	Result	RL
Dibromochloromethane	ND	51
1,2-Dibromoethane	ND	51
Chlorobenzene	ND	51
1,1,1,2-Tetrachloroethane	ND	51
Ethylbenzene	ND	51
m,p-Xylenes	ND	51
o-Xylene	ND	51
Styrene	ND	51
Bromoform	ND	51
Isopropylbenzene	ND	51
1,1,2,2-Tetrachloroethane	ND	51
1,2,3-Trichloropropane	ND	51
Propylbenzene	83	51
Bromobenzene	ND	51
1,3,5-Trimethylbenzene	ND	51
2-Chlorotoluene	ND	51
4-Chlorotoluene	ND	51
tert-Butylbenzene	ND	51
1,2,4-Trimethylbenzene	180	51
sec-Butylbenzene	ND	51
para-Isopropyl Toluene	ND	51
1,3-Dichlorobenzene	ND	51
1,4-Dichlorobenzene	ND	51
n-Butylbenzene	230	51
1,2-Dichlorobenzene	ND	51
1,2-Dibromo-3-Chloropropane	ND	51
1,2,4-Trichlorobenzene	ND	51
Hexachlorobutadiene	ND	51
Naphthalene	1,300	51
1,2,3-Trichlorobenzene	ND	51

Surrogate	%REC	Limits
Dibromofluoromethane	91	71-128
1,2-Dichloroethane-d4	100	69-135
Toluene-d8	98	80-120
Bromofluorobenzene	93	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B16-2.5	Diln Fac:	0.9960
Lab ID:	213332-005	Batch#:	152727
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/09/09

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	63	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B16-2.5	Diln Fac:	0.9960
Lab ID:	213332-005	Batch#:	152727
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/09/09

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	71-128
1,2-Dichloroethane-d4	131	69-135
Toluene-d8	102	80-120
Bromofluorobenzene	98	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC502704	Batch#:	152672
Matrix:	Soil	Analyzed:	07/08/09
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC502704	Batch#:	152672
Matrix:	Soil	Analyzed:	07/08/09
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	71-128
1,2-Dichloroethane-d4	124	69-135
Toluene-d8	103	80-120
Bromofluorobenzene	101	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	152672
Units:	ug/Kg	Analyzed:	07/08/09
Diln Fac:	1.000		

Type: BS Lab ID: QC502705

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.92	96	73-135
Benzene	25.00	22.96	92	80-125
Trichloroethene	25.00	25.35	101	80-127
Toluene	25.00	25.47	102	80-126
Chlorobenzene	25.00	24.32	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	118	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	96	77-131

Type: BSD Lab ID: QC502706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.17	97	73-135	1	20
Benzene	25.00	23.91	96	80-125	4	20
Trichloroethene	25.00	24.65	99	80-127	3	20
Toluene	25.00	25.18	101	80-126	1	20
Chlorobenzene	25.00	24.38	98	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	114	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	93	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	213315-001	Batch#:	152672
Matrix:	Soil	Sampled:	07/01/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/08/09

Type: MS Lab ID: QC502799

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9574	48.08	45.42	94	58-145
Benzene	<0.9615	48.08	41.09	85	56-126
Trichloroethene	<0.9615	48.08	45.45	95	50-142
Toluene	<0.9615	48.08	44.53	93	52-125
Chlorobenzene	<0.9615	48.08	40.66	85	46-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-128
1,2-Dichloroethane-d4	116	69-135
Toluene-d8	104	80-120
Bromofluorobenzene	95	77-131

Type: MSD Lab ID: QC502800

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	45.16	94	58-145	1	28
Benzene	48.08	41.39	86	56-126	1	26
Trichloroethene	48.08	44.13	92	50-142	3	29
Toluene	48.08	43.09	90	52-125	3	29
Chlorobenzene	48.08	38.98	81	46-120	4	29

Surrogate	%REC	Limits
Dibromofluoromethane	100	71-128
1,2-Dichloroethane-d4	114	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	96	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC502915	Batch#:	152727
Matrix:	Soil	Analyzed:	07/09/09
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC502915	Batch#:	152727
Matrix:	Soil	Analyzed:	07/09/09
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	71-128
1,2-Dichloroethane-d4	125	69-135
Toluene-d8	100	80-120
Bromofluorobenzene	101	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC502916	Batch#:	152727
Matrix:	Soil	Analyzed:	07/09/09
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.29	97	73-135
Benzene	25.00	23.68	95	80-125
Trichloroethene	25.00	25.32	101	80-127
Toluene	25.00	24.46	98	80-126
Chlorobenzene	25.00	25.40	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	71-128
1,2-Dichloroethane-d4	125	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	89	77-131

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	B16-2.5	Diln Fac:	0.9960
MSS Lab ID:	213332-005	Batch#:	152727
Matrix:	Soil	Sampled:	07/02/09
Units:	ug/Kg	Received:	07/07/09
Basis:	as received	Analyzed:	07/09/09

Type: MS Lab ID: QC502993

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9918	49.80	47.84	96	58-145
Benzene	<0.9960	49.80	48.15	97	56-126
Trichloroethene	<0.9960	49.80	51.93	104	50-142
Toluene	<0.9960	49.80	49.77	100	52-125
Chlorobenzene	<0.9960	49.80	44.57	89	46-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	71-128
1,2-Dichloroethane-d4	131	69-135
Toluene-d8	103	80-120
Bromofluorobenzene	95	77-131

Type: MSD Lab ID: QC502994

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.80	53.55	108	58-145	11	28
Benzene	49.80	47.93	96	56-126	0	26
Trichloroethene	49.80	51.32	103	50-142	1	29
Toluene	49.80	49.66	100	52-125	0	29
Chlorobenzene	49.80	45.19	91	46-120	1	29

Surrogate	%REC	Limits
Dibromofluoromethane	98	71-128
1,2-Dichloroethane-d4	121	69-135
Toluene-d8	95	80-120
Bromofluorobenzene	98	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	07/02/09
Units:	mg/Kg	Received:	07/07/09
Basis:	as received	Prepared:	07/07/09
Diln Fac:	1.000	Analyzed:	07/08/09
Batch#:	152661		

Field ID: B01-2.5 Lab ID: 213332-001
Type: SAMPLE

Analyte	Result	RL
Cadmium	0.49	0.25
Chromium	34	0.25
Lead	92	0.25
Nickel	35	0.25
Zinc	150	1.0

Field ID: B06-4.0 Lab ID: 213332-002
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	40	0.25
Lead	5.9	0.25
Nickel	59	0.25
Zinc	32	1.0

Field ID: B12-3.0 Lab ID: 213332-003
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	27	0.25
Lead	21	0.25
Nickel	25	0.25
Zinc	47	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	07/02/09
Units:	mg/Kg	Received:	07/07/09
Basis:	as received	Prepared:	07/07/09
Diln Fac:	1.000	Analyzed:	07/08/09
Batch#:	152661		

Field ID: B13-4.0 Lab ID: 213332-004
Type: SAMPLE

Analyte	Result	RL
Cadmium	0.31	0.25
Chromium	30	0.25
Lead	56	0.25
Nickel	32	0.25
Zinc	120	1.0

Field ID: B16-2.5 Lab ID: 213332-005
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	22	0.25
Lead	30	0.25
Nickel	23	0.25
Zinc	88	1.0

Type: BLANK Lab ID: QC502654

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	152661
Units:	mg/Kg	Prepared:	07/07/09
Diln Fac:	1.000	Analyzed:	07/08/09

Type: BS Lab ID: QC502655

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.21	102	80-120
Chromium	100.0	98.49	98	80-120
Lead	100.0	100.6	101	80-120
Nickel	25.00	24.29	97	80-120
Zinc	25.00	25.19	101	80-120

Type: BSD Lab ID: QC502656

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	11.17	112	80-120	9	20
Chromium	100.0	105.8	106	80-120	7	20
Lead	100.0	108.8	109	80-120	8	20
Nickel	25.00	26.34	105	80-120	8	20
Zinc	25.00	27.58	110	80-120	9	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	213332	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	152661
MSS Lab ID:	213311-001	Sampled:	07/03/09
Matrix:	Soil	Received:	07/06/09
Units:	mg/Kg	Prepared:	07/07/09
Basis:	as received	Analyzed:	07/08/09
Diln Fac:	1.000		

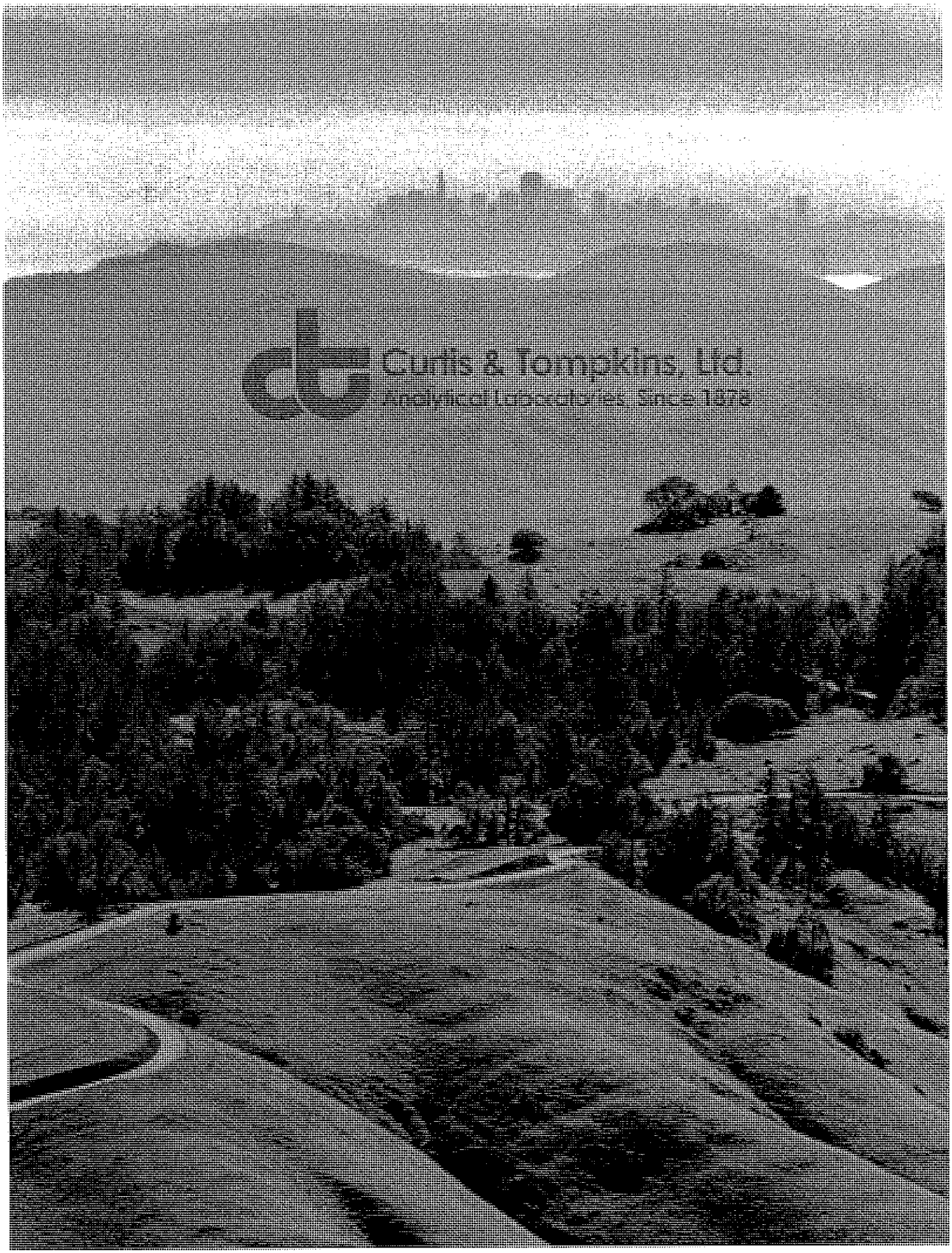
Type: MS Lab ID: QC502657

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.1254	10.00	10.03	99	63-120
Chromium	39.58	100.0	142.2	103	52-128
Lead	12.80	100.0	108.2	95	49-124
Nickel	38.54	25.00	66.62	112	34-148
Zinc	421.7	25.00	430.2	34 NM	25-159

Type: MSD Lab ID: QC502658

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	9.908	98	63-120	1	20
Chromium	100.0	131.7	92	52-128	8	25
Lead	100.0	107.2	94	49-124	1	31
Nickel	25.00	57.55	76	34-148	15	30
Zinc	25.00	379.5	-169 NM	25-159	13	33

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference


Curtis & Tompkins, Ltd.
Analytical Laboratories Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 213827
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.08
300 Frank H. Ogawa Plaza	Location : Placeworks
Oakland, CA 94612	Level : II

Sample ID	Lab ID
SP2-A	213827-001
SP2-B	213827-002
SP2-C	213827-003
SP2-D	213827-004
SP2-A,B,C,D	213827-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/30/2009
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	213827
Client:	Northgate Environmental Management
Project:	1141.08
Location:	Placeworks
Request Date:	07/29/09
Samples Received:	07/29/09

This data package contains sample and QC results for one soil sample and one four-point soil composite, requested for the above referenced project on 07/29/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in SP2-A,B,C,D (lab # 213827-005); the corresponding trifluorotoluene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
SP2-A (lab # 213827-001) was diluted due to high hydrocarbons. No other analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 213827

Project No.: 1141.08
Project Name: Placeworks
Project P.O.: 1141.08
Turnaround Time: 24 Hour

Sampler: Josh Otis
Report To: josh.otis@rgem.com; dennis.adurzinsky@rgem.com
Company: Northgate
Telephone: 510-839-0688
Fax: 510-839-4350

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE
1	SP2-A	7/29/09 1455	X			1				X
2	SP2-B	1500	X			1				X
3	SP2-C	1505	X			1				X
4	SP2-D	1510	X			1				X

Analysis

- X VOCs 8260
- TPH gas, diesel, oil 8015
- 5 LUFT METALS
- composite 4:1 for TPH & metals

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY:
John W. — 7/29/09 1600 DATE / TIME
DATE / TIME
DATE / TIME

RECEIVED BY:
Pat Langley — 7/29/09 1600 DATE / TIME
DATE / TIME
DATE / TIME

SIGNATURE

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 213827 Date Received 7/29/09 Number of coolers 1
Client PGE Project PLACERWORKS

Date Opened 7/29/09 By (print) M. VILLANUEVA (sign) [signature]
Date Logged in [signature] By (print) [signature] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☑ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☑ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are samples in the appropriate containers for indicated tests? _____ YES NO
11. Are sample labels present, in good condition and complete? _____ YES NO
12. Do the sample labels agree with custody papers? _____ YES NO
13. Was sufficient amount of sample sent for tests requested? _____ YES NO
14. Are the samples appropriately preserved? _____ YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	SP2-A,B,C,D	Batch#:	153347
Matrix:	Soil	Sampled:	07/29/09
Units:	mg/Kg	Received:	07/29/09
Basis:	as received	Analyzed:	07/29/09

Type:	SAMPLE	Diln Fac:	25.00
Lab ID:	213827-005		

Analyte	Result	RL
Gasoline C7-C12	260 Y	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	138	54-152
Bromofluorobenzene (FID)	184 *	50-152

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC505445		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	54-152
Bromofluorobenzene (FID)	82	50-152

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC505446	Batch#:	153347
Matrix:	Soil	Analyzed:	07/29/09
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.234	105	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	54-152
Bromofluorobenzene (FID)	97	50-152

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	213760-020	Batch#:	153347
Matrix:	Soil	Sampled:	07/24/09
Units:	mg/Kg	Received:	07/24/09
Basis:	as received	Analyzed:	07/29/09

Type: MS Lab ID: QC505447

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.07313	10.10	9.860	97	31-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	54-152
Bromofluorobenzene (FID)	117	50-152

Type: MSD Lab ID: QC505448

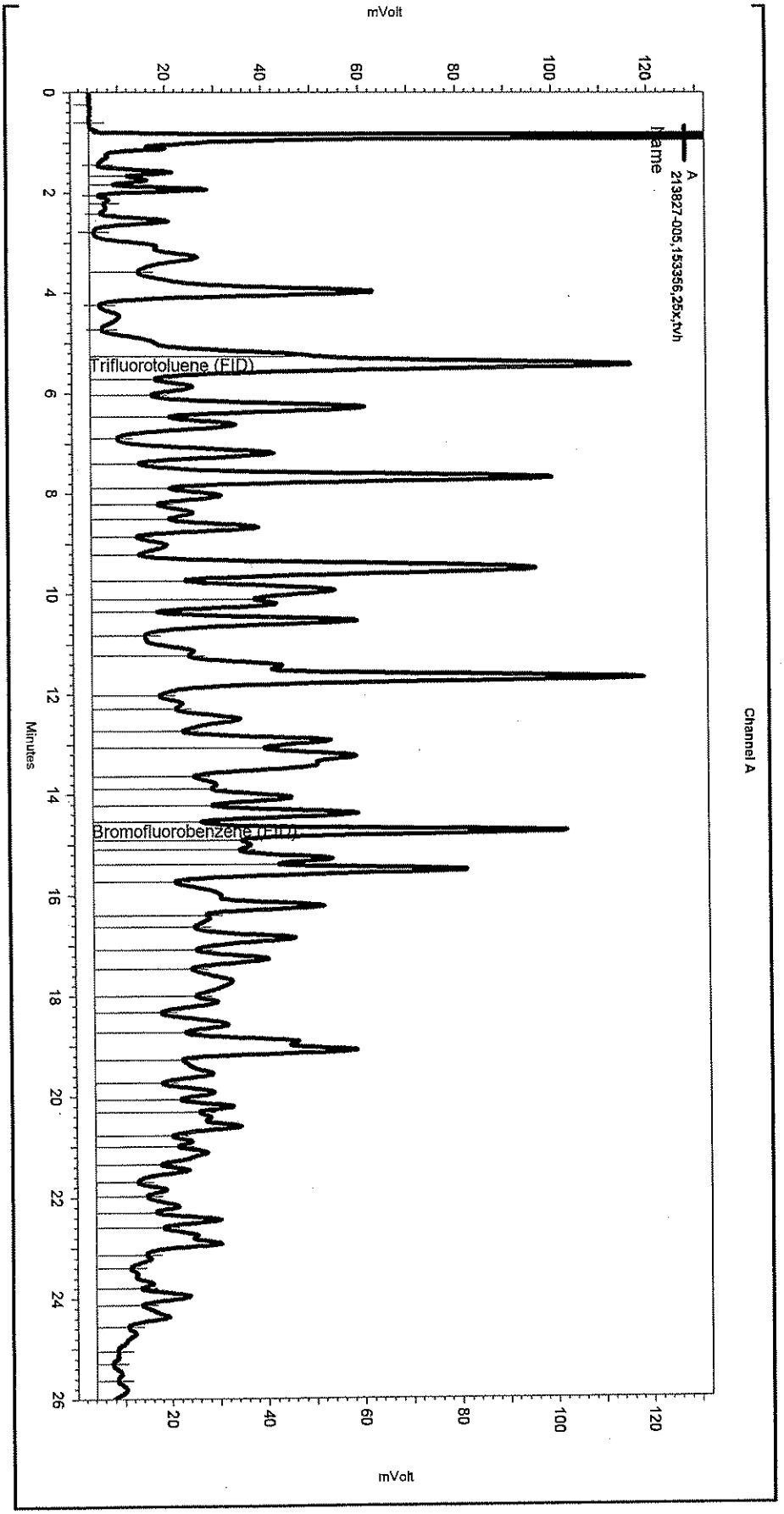
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	9.972	98	31-120	1	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	54-152
Bromofluorobenzene (FID)	115	50-152

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\210.seq
Sample Name: **213827-005,153356,25x,tvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\210_017
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe195.met

Software Version 3.1.7
Run Date: 7/29/2009 8:50:20 PM
Analysis Date: 7/30/2009 11:15:25 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: comp



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\210_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.26	0	0

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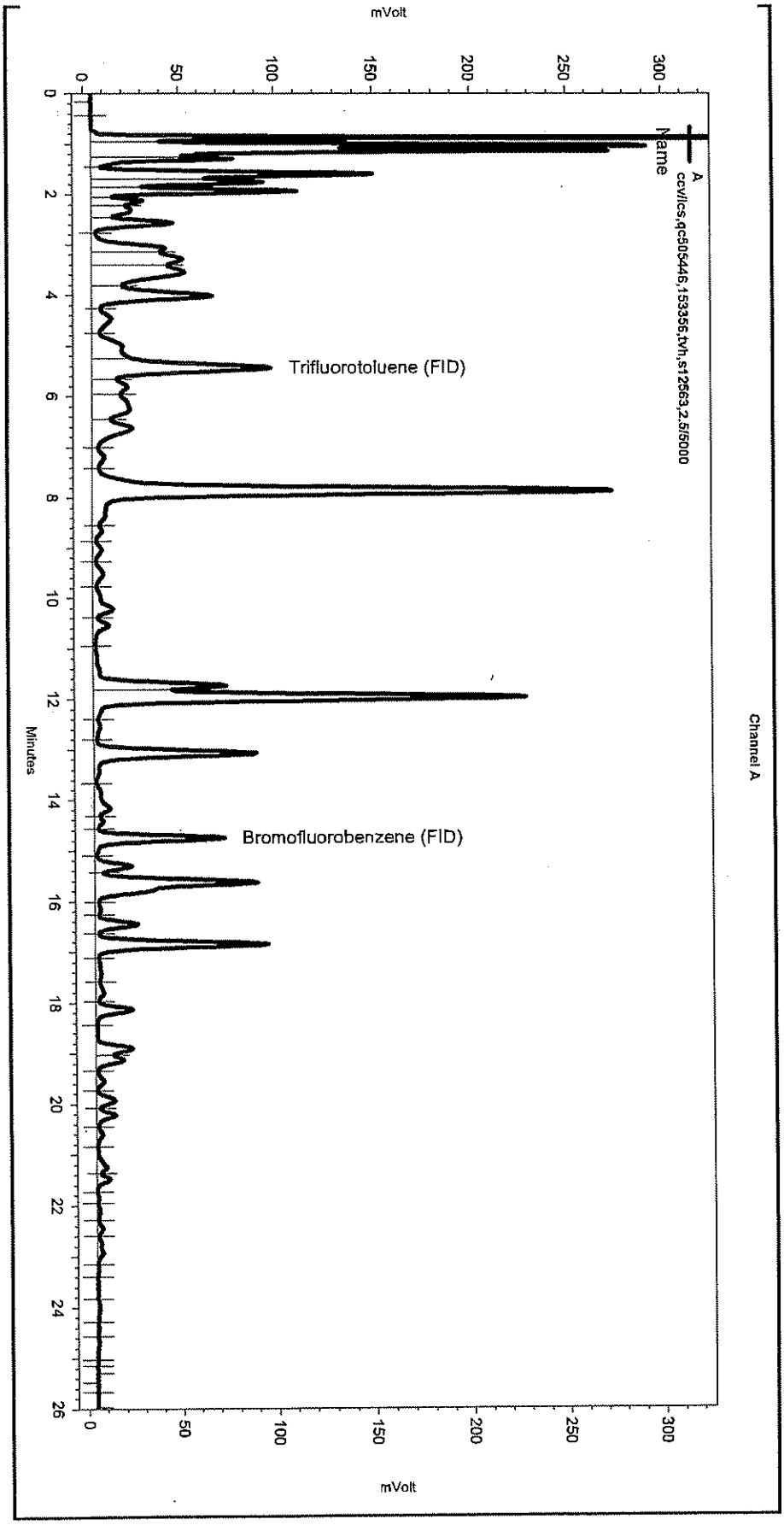
Sample Name: **ccv/lcs,qc505446,153356,tvh,s12563,2.5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\210_006
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe195.met

Software Version 3.1.7
Run Date: 7/29/2009 10:19:12 AM
Analysis Date: 7/30/2009 10:49:03 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\210_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.246	0	0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	SP2-A,B,C,D	Sampled:	07/29/09
Matrix:	Soil	Received:	07/29/09
Units:	mg/Kg	Prepared:	07/29/09
Basis:	as received	Analyzed:	07/30/09
Batch#:	153348		

Type: SAMPLE Diln Fac: 5.000
Lab ID: 213827-005

Analyte	Result	RL
Diesel C10-C24	420 Y	5.0
Motor Oil C24-C36	78	25

Surrogate	%REC	Limits
o-Terphenyl	83	53-133

Type: BLANK Diln Fac: 1.000
Lab ID: QC505450

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	104	53-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC505451	Batch#:	153348
Matrix:	Soil	Prepared:	07/29/09
Units:	mg/Kg	Analyzed:	07/30/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.86	42.80	86	52-128

Surrogate	%REC	Limits
o-Terphenyl	85	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	153348
MSS Lab ID:	213735-001	Sampled:	07/23/09
Matrix:	Soil	Received:	07/23/09
Units:	mg/Kg	Prepared:	07/29/09
Basis:	as received	Analyzed:	07/30/09
Diln Fac:	1.000		

Type: MS Lab ID: QC505452

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	857.2	49.97	90.03	-1535 NM	33-145

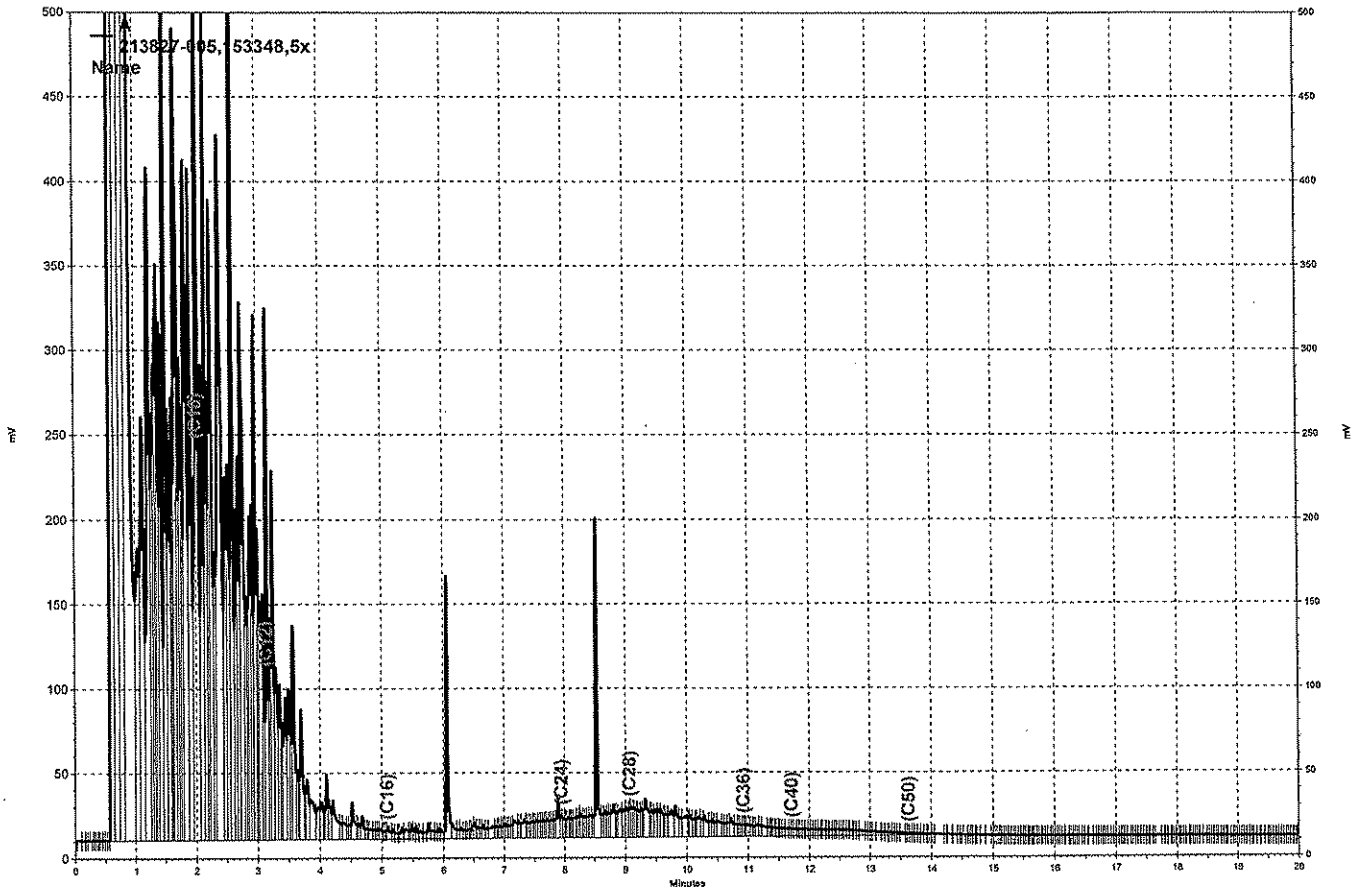
Surrogate	%REC	Limits
o-Terphenyl	116	53-133

Type: MSD Lab ID: QC505453

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.63	93.89	-1775 NM	33-145	4	44

Surrogate	%REC	Limits
o-Terphenyl	122	53-133

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference



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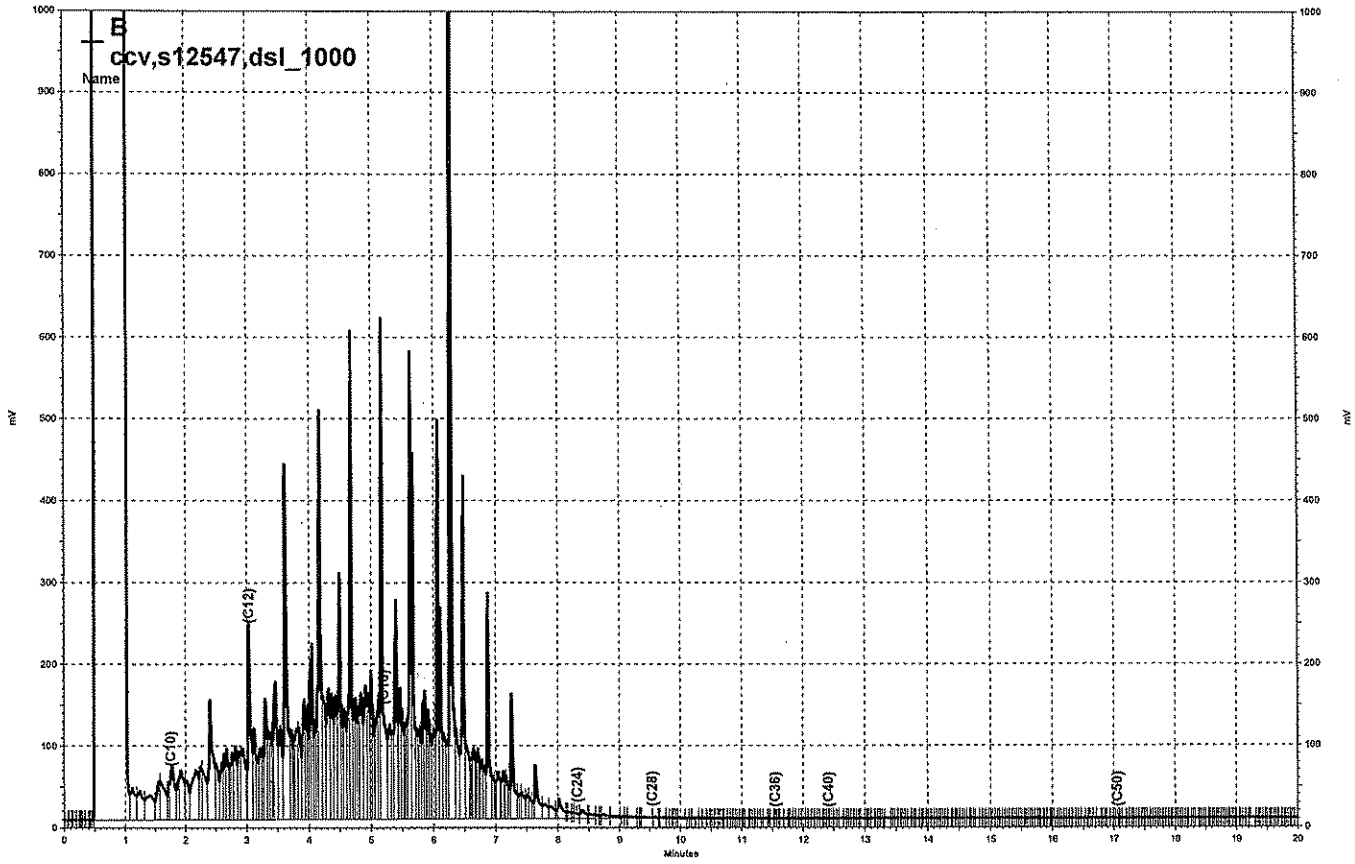

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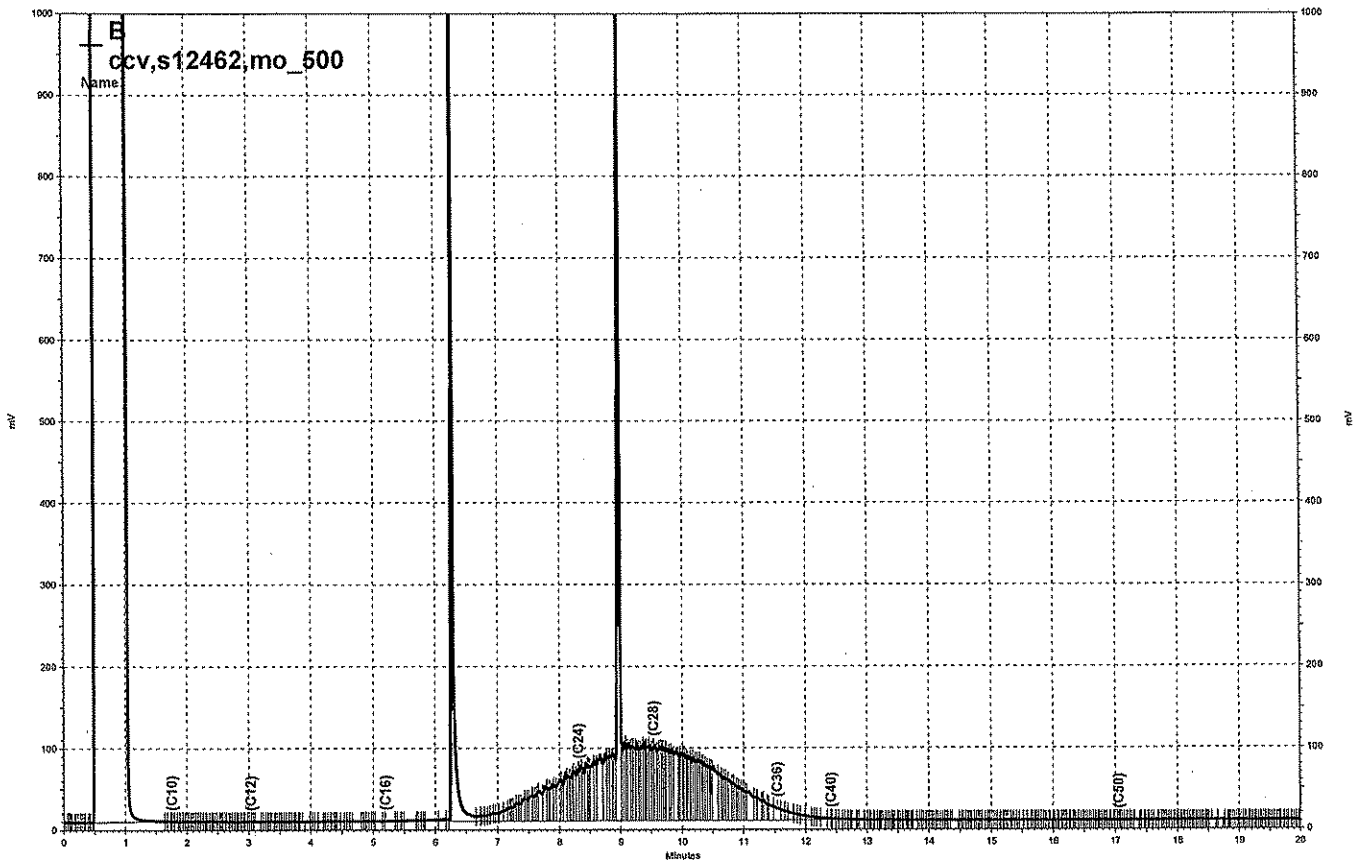

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SP2-A	Diln Fac:	500.0
Lab ID:	213827-001	Batch#:	153329
Matrix:	Soil	Sampled:	07/29/09
Units:	ug/Kg	Received:	07/29/09
Basis:	as received	Analyzed:	07/29/09

Analyte	Result	RL
Freon 12	ND	5,000
Chloromethane	ND	5,000
Vinyl Chloride	ND	5,000
Bromomethane	ND	5,000
Chloroethane	ND	5,000
Trichlorofluoromethane	ND	2,500
Acetone	ND	10,000
Freon 113	ND	2,500
1,1-Dichloroethene	ND	2,500
Methylene Chloride	ND	10,000
Carbon Disulfide	ND	2,500
MTBE	ND	2,500
trans-1,2-Dichloroethene	ND	2,500
Vinyl Acetate	ND	25,000
1,1-Dichloroethane	ND	2,500
2-Butanone	ND	5,000
cis-1,2-Dichloroethene	ND	2,500
2,2-Dichloropropane	ND	2,500
Chloroform	ND	2,500
Bromochloromethane	ND	2,500
1,1,1-Trichloroethane	ND	2,500
1,1-Dichloropropene	ND	2,500
Carbon Tetrachloride	ND	2,500
1,2-Dichloroethane	ND	2,500
Benzene	ND	2,500
Trichloroethene	ND	2,500
1,2-Dichloropropane	ND	2,500
Bromodichloromethane	ND	2,500
Dibromomethane	ND	2,500
4-Methyl-2-Pentanone	ND	5,000
cis-1,3-Dichloropropene	ND	2,500
Toluene	ND	2,500
trans-1,3-Dichloropropene	ND	2,500
1,1,2-Trichloroethane	ND	2,500
2-Hexanone	ND	5,000
1,3-Dichloropropane	ND	2,500
Tetrachloroethene	ND	2,500

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SP2-A	Diln Fac:	500.0
Lab ID:	213827-001	Batch#:	153329
Matrix:	Soil	Sampled:	07/29/09
Units:	ug/Kg	Received:	07/29/09
Basis:	as received	Analyzed:	07/29/09

Analyte	Result	RL
Dibromochloromethane	ND	2,500
1,2-Dibromoethane	ND	2,500
Chlorobenzene	ND	2,500
1,1,1,2-Tetrachloroethane	ND	2,500
Ethylbenzene	3,700	2,500
m,p-Xylenes	2,600	2,500
o-Xylene	ND	2,500
Styrene	ND	2,500
Bromoform	ND	2,500
Isopropylbenzene	ND	2,500
1,1,2,2-Tetrachloroethane	ND	2,500
1,2,3-Trichloropropane	ND	2,500
Propylbenzene	3,900	2,500
Bromobenzene	ND	2,500
1,3,5-Trimethylbenzene	ND	2,500
2-Chlorotoluene	ND	2,500
4-Chlorotoluene	ND	2,500
tert-Butylbenzene	ND	2,500
1,2,4-Trimethylbenzene	7,300	2,500
sec-Butylbenzene	ND	2,500
para-Isopropyl Toluene	ND	2,500
1,3-Dichlorobenzene	ND	2,500
1,4-Dichlorobenzene	ND	2,500
n-Butylbenzene	2,700	2,500
1,2-Dichlorobenzene	ND	2,500
1,2-Dibromo-3-Chloropropane	ND	2,500
1,2,4-Trichlorobenzene	ND	2,500
Hexachlorobutadiene	ND	2,500
Naphthalene	4,400	2,500
1,2,3-Trichlorobenzene	ND	2,500

Surrogate	%REC	Limits
Dibromofluoromethane	92	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	93	80-120
Bromofluorobenzene	105	77-131
Trifluorotoluene (MeOH)	93	56-147

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC505380	Batch#:	153329
Matrix:	Soil	Analyzed:	07/29/09
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC505380	Batch#:	153329
Matrix:	Soil	Analyzed:	07/29/09
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	87	71-128
1,2-Dichloroethane-d4	101	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	90	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC505381	Batch#:	153329
Matrix:	Soil	Analyzed:	07/29/09
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.59	106	73-135
Benzene	25.00	25.41	102	80-125
Trichloroethene	25.00	25.12	100	80-127
Toluene	25.00	26.16	105	80-126
Chlorobenzene	25.00	26.57	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	71-128
1,2-Dichloroethane-d4	90	69-135
Toluene-d8	96	80-120
Bromofluorobenzene	86	77-131

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	153329
MSS Lab ID:	213741-001	Sampled:	07/22/09
Matrix:	Soil	Received:	07/22/09
Units:	ug/Kg	Analyzed:	07/29/09
Basis:	as received		

Type: MS Diln Fac: 0.9804
Lab ID: QC505520

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9724	49.02	45.69	93	58-145
Benzene	<0.9766	49.02	42.16	86	56-126
Trichloroethene	<0.9766	49.02	47.37	97	50-142
Toluene	<0.9766	49.02	44.00	90	52-125
Chlorobenzene	<0.9766	49.02	41.65	85	46-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	71-128
1,2-Dichloroethane-d4	103	69-135
Toluene-d8	98	80-120
Bromofluorobenzene	89	77-131

Type: MSD Diln Fac: 0.9843
Lab ID: QC505521

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.21	49.33	100	58-145	7	28
Benzene	49.21	44.53	90	56-126	5	26
Trichloroethene	49.21	50.20	102	50-142	5	29
Toluene	49.21	47.61	97	52-125	7	29
Chlorobenzene	49.21	45.16	92	46-120	8	29

Surrogate	%REC	Limits
Dibromofluoromethane	95	71-128
1,2-Dichloroethane-d4	99	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	82	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	SP2-A,B,C,D	Batch#:	153371
Matrix:	Soil	Sampled:	07/29/09
Units:	mg/Kg	Received:	07/29/09
Basis:	as received	Prepared:	07/29/09
Diln Fac:	1.000	Analyzed:	07/30/09

Type: SAMPLE Lab ID: 213827-005

Analyte	Result	RL
Cadmium	1.0	0.25
Chromium	32	0.25
Lead	17	0.25
Nickel	36	0.25
Zinc	190	1.0

Type: BLANK Lab ID: QC505540

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	153371
Units:	mg/Kg	Prepared:	07/29/09
Diln Fac:	1.000	Analyzed:	07/30/09

Type: BS Lab ID: QC505541

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	9.968	100	80-120
Chromium	100.0	97.14	97	80-120
Lead	100.0	95.90	96	80-120
Nickel	25.00	24.44	98	80-120
Zinc	25.00	23.74	95	80-120

Type: BSD Lab ID: QC505542

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.15	102	80-120	2	20
Chromium	100.0	98.84	99	80-120	2	20
Lead	100.0	98.13	98	80-120	2	20
Nickel	25.00	24.96	100	80-120	2	20
Zinc	25.00	23.96	96	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	213827	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	153371
MSS Lab ID:	213735-001	Sampled:	07/23/09
Matrix:	Soil	Received:	07/23/09
Units:	mg/Kg	Prepared:	07/29/09
Basis:	as received	Analyzed:	07/30/09
Diln Fac:	1.000		

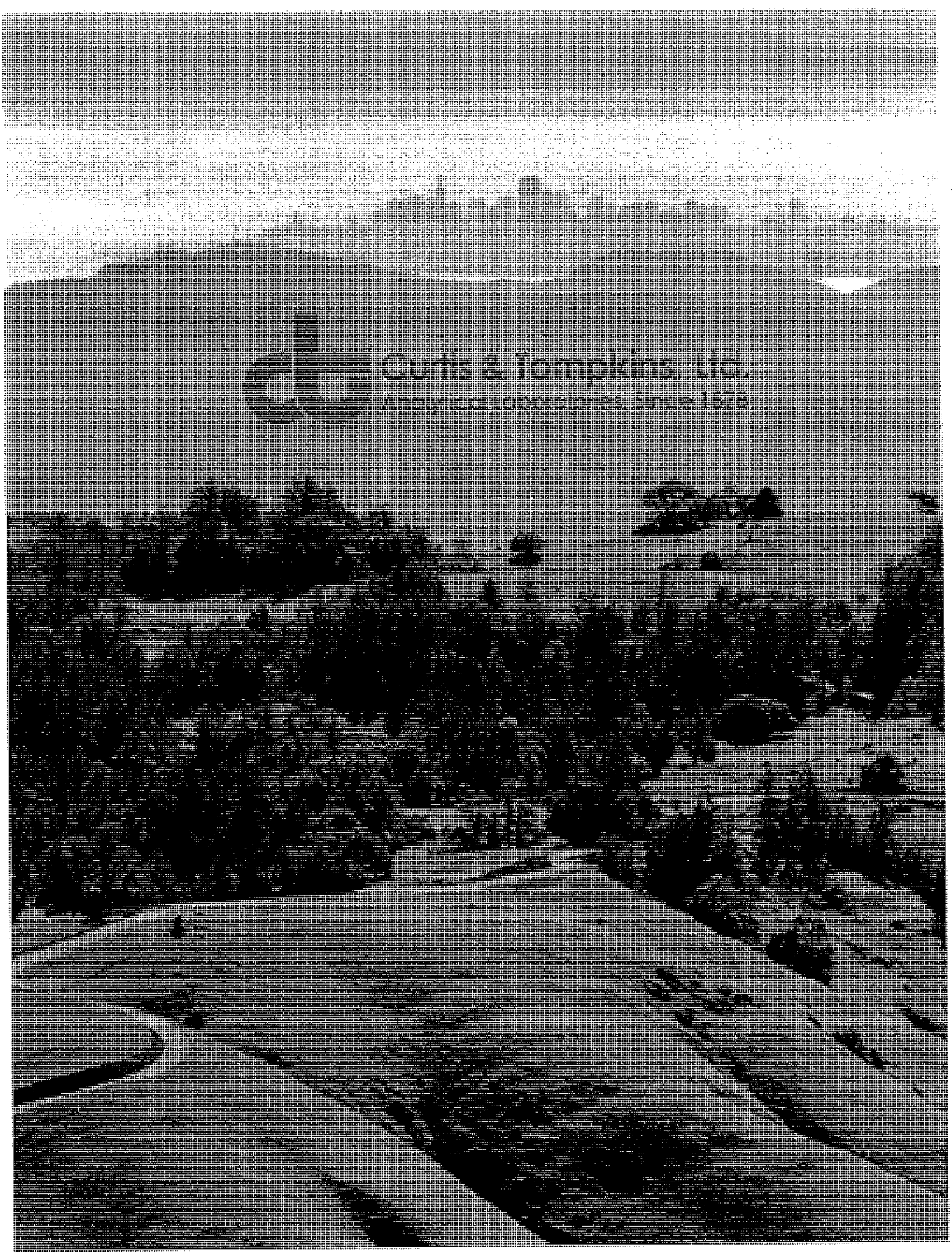
Type: MS Lab ID: QC505543

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.03194	9.434	8.505	90	63-120
Chromium	49.10	94.34	125.6	81	52-128
Lead	3.577	94.34	83.24	84	49-124
Nickel	30.94	23.58	51.70	88	34-148
Zinc	39.56	23.58	55.89	69	25-159

Type: MSD Lab ID: QC505544

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	9.259	8.227	89	63-120	1	20
Chromium	92.59	123.7	81	52-128	0	25
Lead	92.59	80.92	84	49-124	1	31
Nickel	23.15	46.95	69	34-148	9	30
Zinc	23.15	55.37	68	25-159	0	33

RPD= Relative Percent Difference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Analytical Laboratories, Since 1878

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 214075
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.08
300 Frank H. Ogawa Plaza	Location : Placeworks
Oakland, CA 94612	Level : II

Sample ID	Lab ID
SA-3.5	214075-001
SB-3.5	214075-002
BE-6.0	214075-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____
Project Manager

Date: 08/13/2009

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	214075
Client:	Northgate Environmental Management
Project:	1141.08
Location:	Placeworks
Request Date:	08/10/09
Samples Received:	08/10/09

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 08/10/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Matrix spikes were not reported for this analysis because the parent sample was reanalyzed in another batch. High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in BE-6.0 (lab # 214075-003), due to interference from coeluting hydrocarbon peaks. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
BE-6.0 (lab # 214075-003) was diluted due to high non-target analytes. No other analytical problems were encountered.

Metals (EPA 6010B):
Low recoveries were observed for cadmium and lead in the MS/MSD for batch 153720; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

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Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 214075

Sampler: JWO

Project No.: 1141.08

Report To: josh.otis@ngem.com dennis.fabzinsky@ngem.com

Project Name: Placeworks

Company: Northgate

Project P.O.: 1141.08

Telephone: (510) 839-0688

Turnaround Time: 72-Hr

Fax: (510) 839-4350

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analysis: TPH g, d, o	VOCs	Luft 5 Metals
1	SA-3.5	8-10-9 1345	X			2				X	X	X	X
2	SB-3.5	1350											
3	BE-6.0	1355											

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY: 8/10/09 1500 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY: Pat Hanaby 8/10/09 1500 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 214075 Date Received 8-10-9 Number of coolers 1
Client NORTHGATE Project DUKE WRKS

Date Opened 8-10-9 By (print) SEVANS (sign)
Date Logged in J By (print) J (sign) J

1. Did cooler come with a shipping slip (airbill, etc) YES NO
   Shipping info
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☒ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C)

☒ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	153706
Units:	mg/Kg	Sampled:	08/10/09
Basis:	as received	Received:	08/10/09
Diln Fac:	1.000		

Field ID: SA-3.5 Lab ID: 214075-001
Type: SAMPLE Analyzed: 08/11/09

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	54-152
Bromofluorobenzene (FID)	98	50-152

Field ID: SB-3.5 Lab ID: 214075-002
Type: SAMPLE Analyzed: 08/11/09

Analyte	Result	RL
Gasoline C7-C12	ND	0.99

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	54-152
Bromofluorobenzene (FID)	108	50-152

Field ID: BE-6.0 Lab ID: 214075-003
Type: SAMPLE Analyzed: 08/11/09

Analyte	Result	RL
Gasoline C7-C12	3.7 Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	154 *	54-152
Bromofluorobenzene (FID)	153 *	50-152

Type: BLANK Analyzed: 08/10/09
Lab ID: QC506897

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	54-152
Bromofluorobenzene (FID)	87	50-152

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC506900	Batch#:	153706
Matrix:	Soil	Analyzed:	08/10/09
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.354	94	77-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	139	54-152
Bromofluorobenzene (FID)	128	50-152

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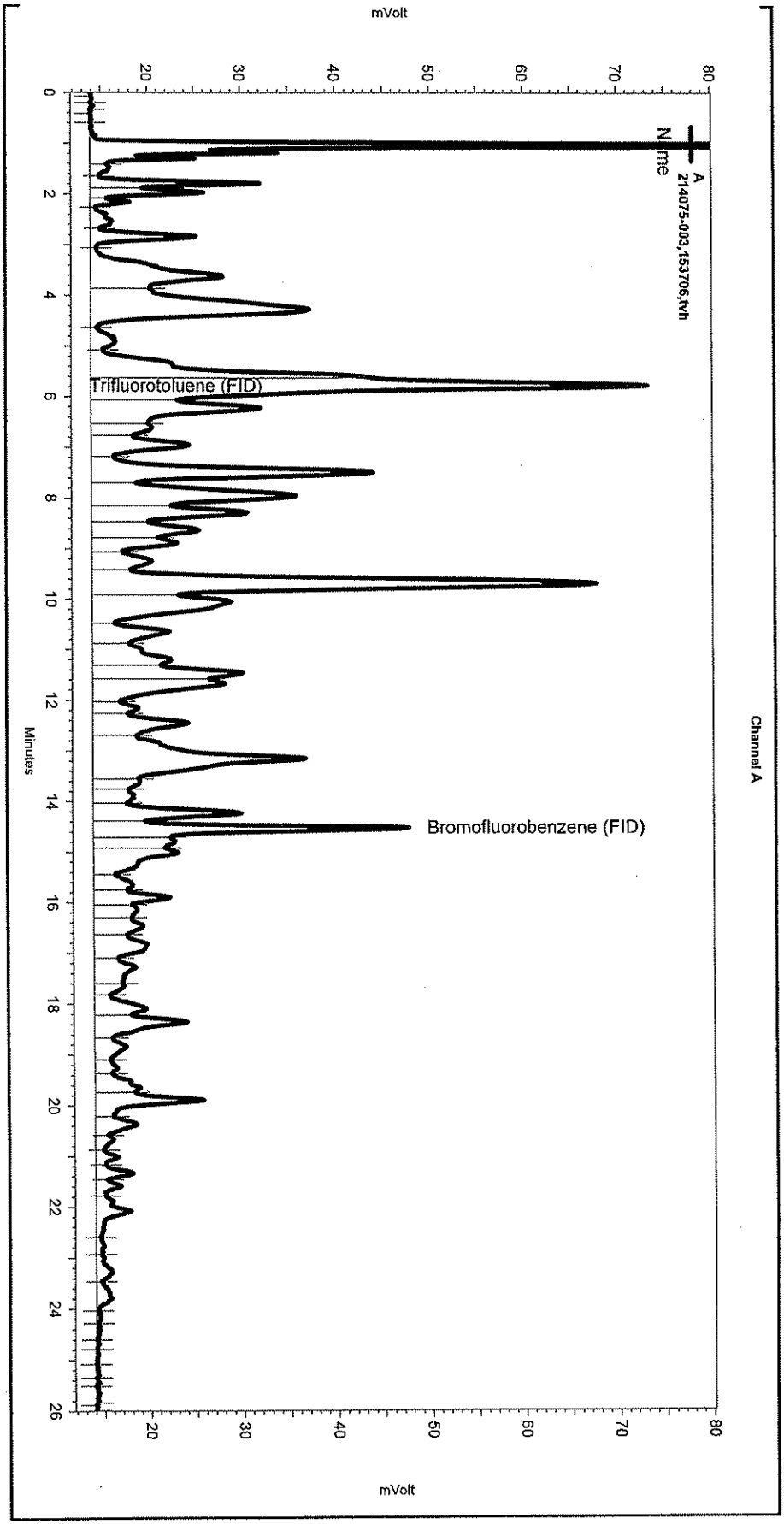
Sample Name: **214075-003,153706,tvh**
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\222_031
Instrument: GC04 (Offline) Vial: N/A Operator: TVH 4. Analyst (lims2k3\tvh4)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe219.met

Software Version 3.1.7
Run Date: 8/11/2009 6:03:18 AM
Analysis Date: 8/11/2009 12:05:15 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\222_031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.638	0	0

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Sample Name: **ccv/lcs,qc506900,153706,tvh,s12563,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\222_008**
Instrument: GC04 (Offline) Vial: N/A Operator: TVH 4. Analyst (lims2k3\tvh4)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe219.met

Software Version 3.1.7
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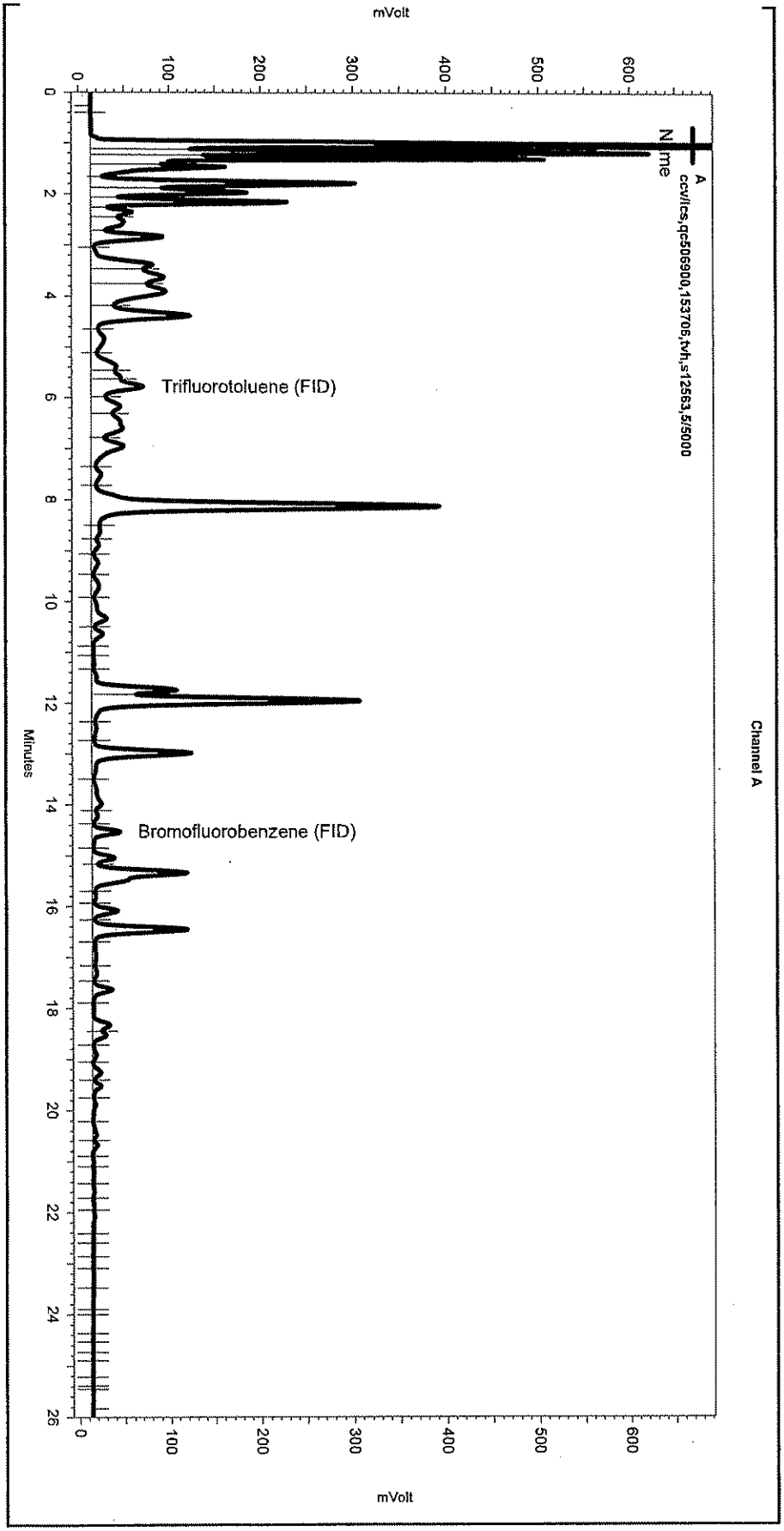
Analysis Date: 8/11/2009 10:47:35 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\222_008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.637	0	0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/10/09
Units:	mg/Kg	Received:	08/10/09
Basis:	as received	Prepared:	08/10/09
Diln Fac:	1.000	Analyzed:	08/11/09
Batch#:	153711		

Field ID: SA-3.5 Lab ID: 214075-001
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	1.8 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	73	53-133

Field ID: SB-3.5 Lab ID: 214075-002
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	3.0 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	70	53-133

Field ID: BE-6.0 Lab ID: 214075-003
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	27 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	65	53-133

Type: BLANK Lab ID: QC506927

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	96	53-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC506928	Batch#:	153711
Matrix:	Soil	Prepared:	08/10/09
Units:	mg/Kg	Analyzed:	08/11/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.32	38.23	76	52-128

Surrogate	%REC	Limits
o-Terphenyl	69	53-133

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	153711
MSS Lab ID:	214078-003	Sampled:	08/10/09
Matrix:	Soil	Received:	08/10/09
Units:	mg/Kg	Prepared:	08/10/09
Basis:	as received	Analyzed:	08/11/09
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC506929

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.1686	49.78	51.46	103	33-145

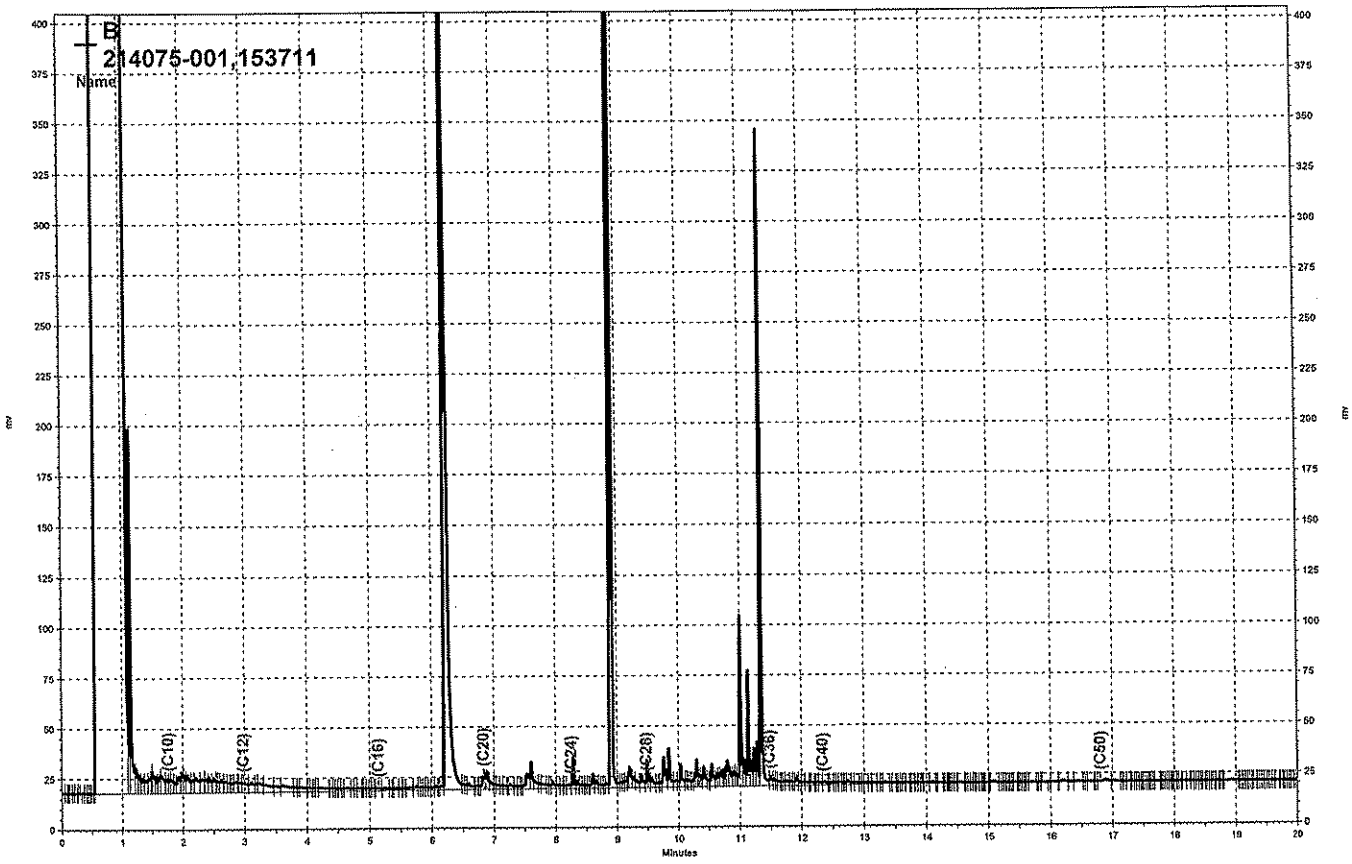
Surrogate	%REC	Limits
o-Terphenyl	108	53-133

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC506930

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.79	46.90	94	33-145	9	44

Surrogate	%REC	Limits
o-Terphenyl	100	53-133

RPD= Relative Percent Difference



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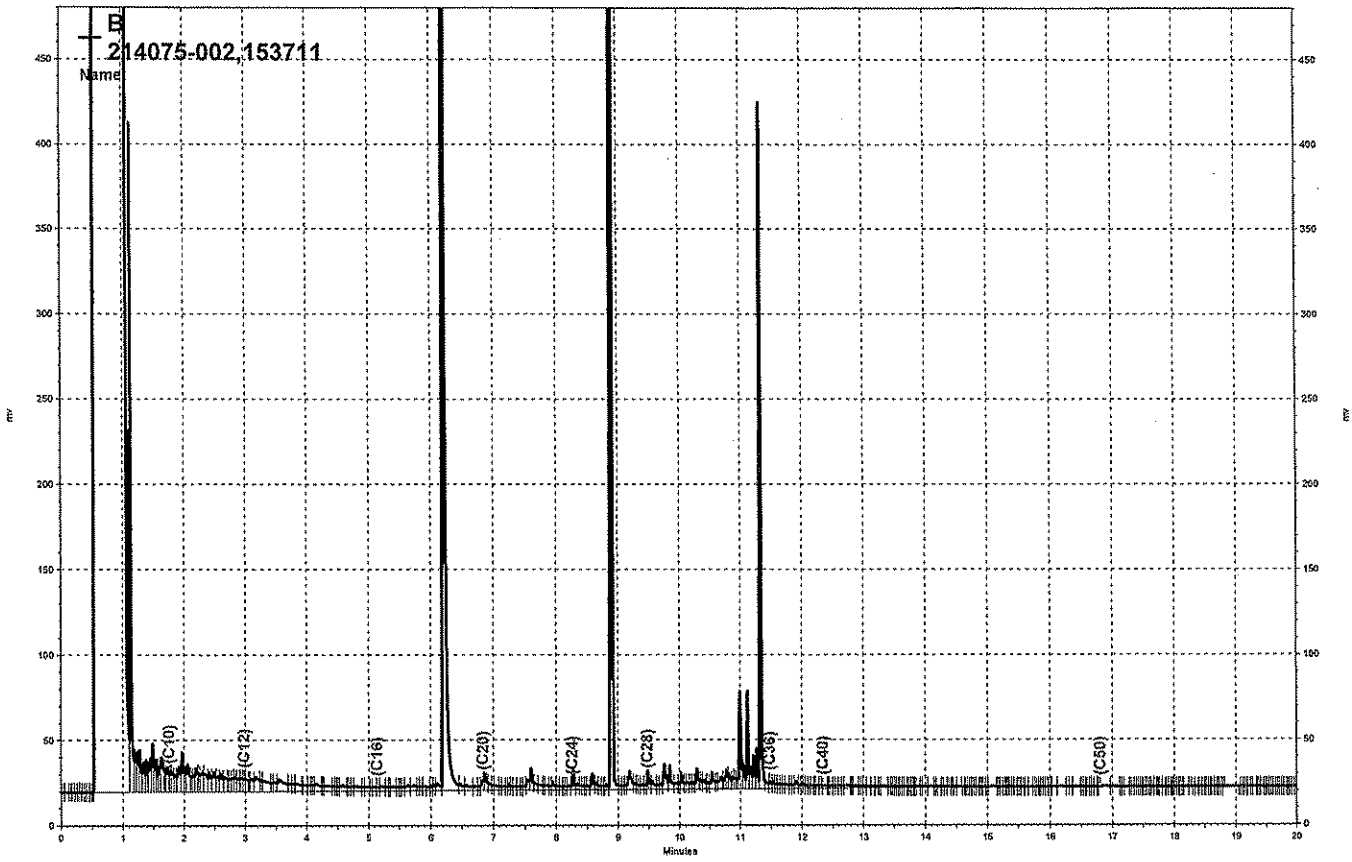

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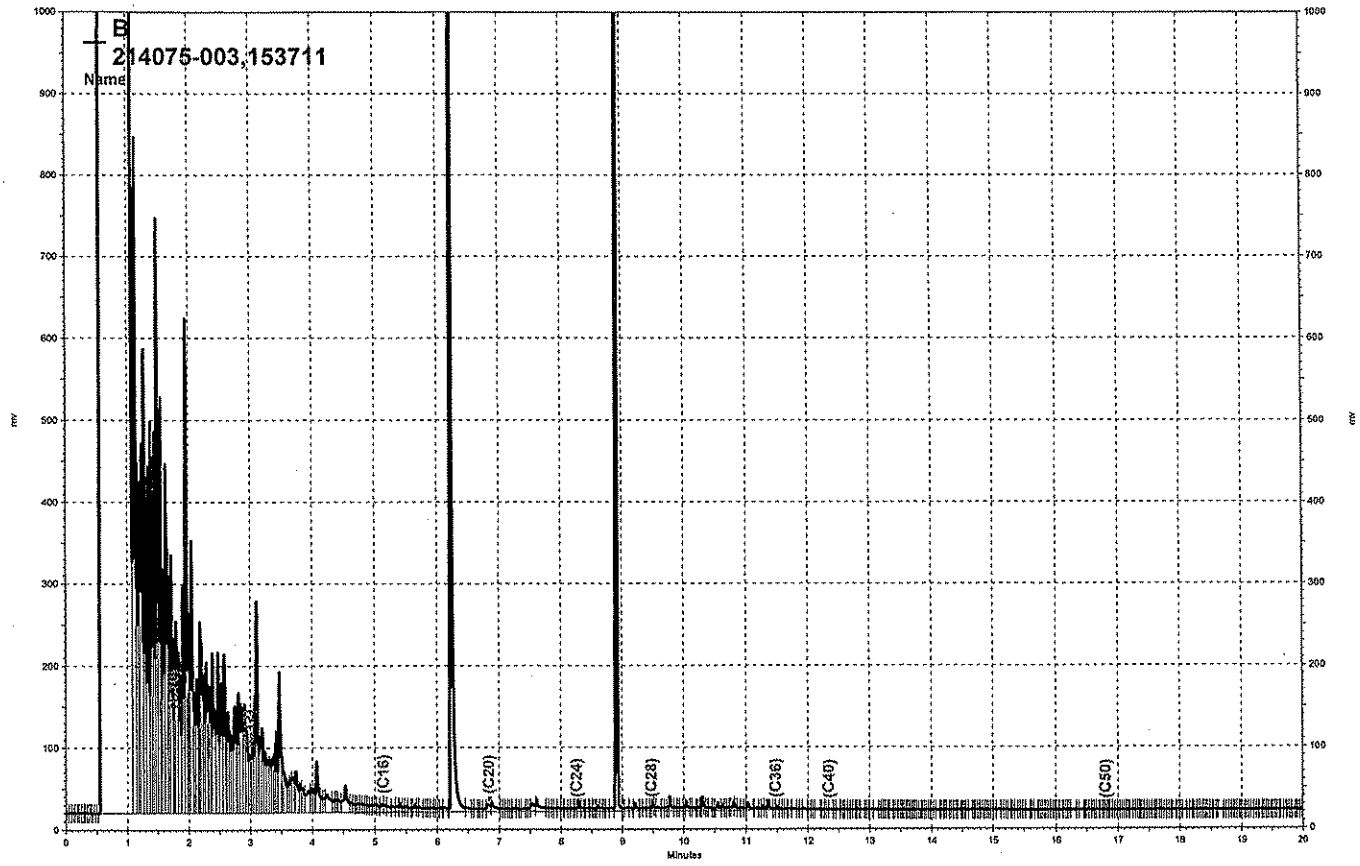

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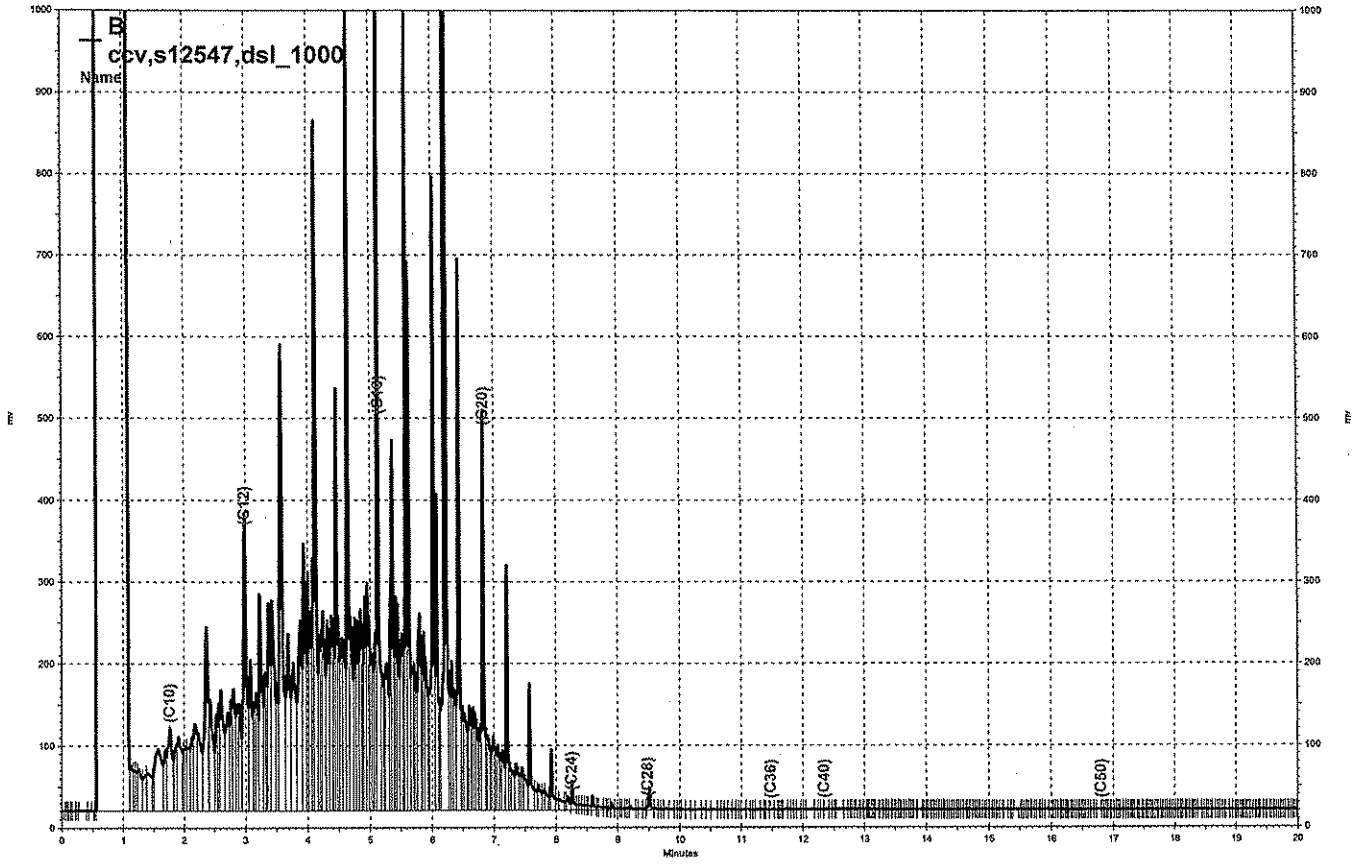

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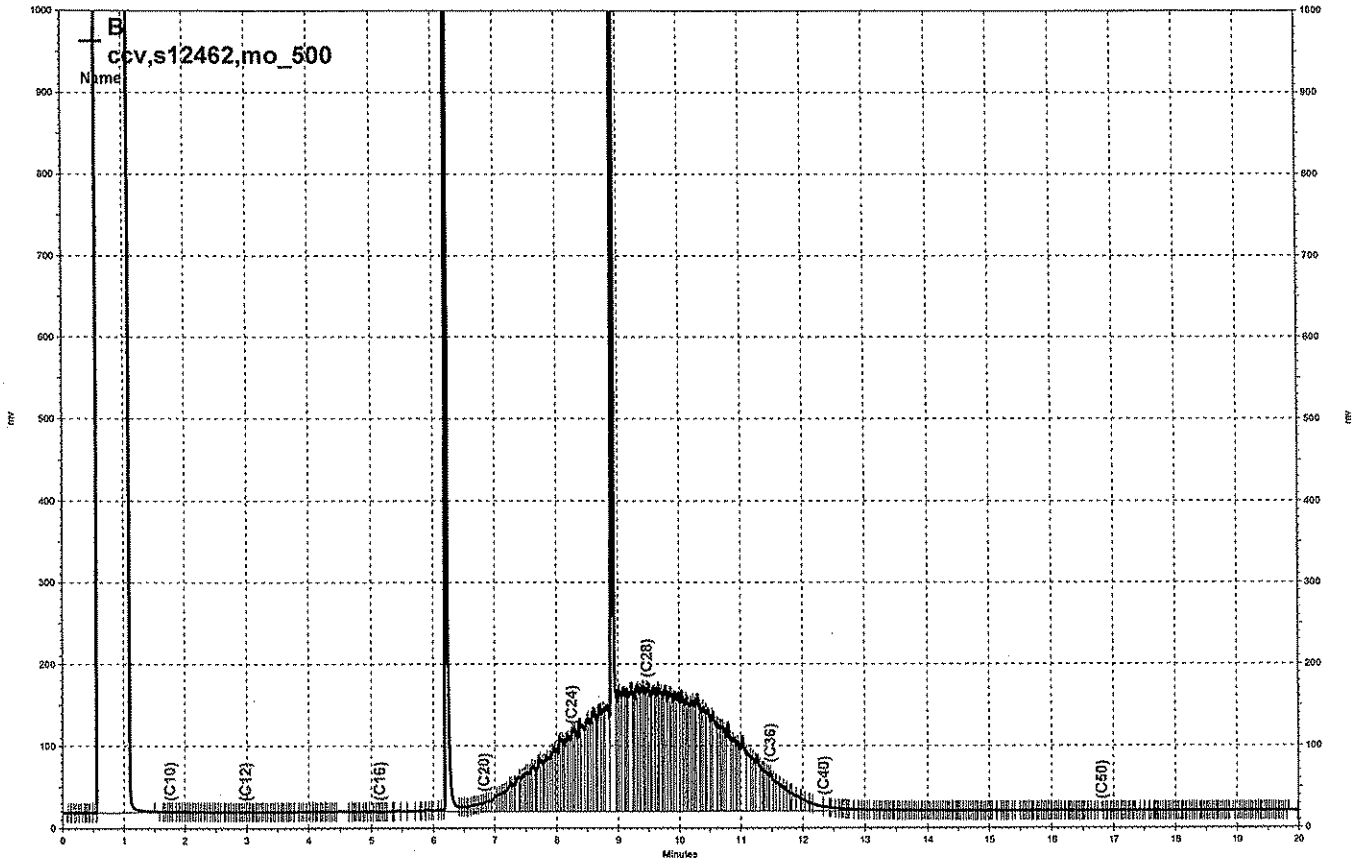

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SA-3.5	Diln Fac:	0.9524
Lab ID:	214075-001	Batch#:	153738
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/11/09

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SA-3.5	Diln Fac:	0.9524
Lab ID:	214075-001	Batch#:	153738
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/11/09

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	101	71-128
1,2-Dichloroethane-d4	114	69-135
Toluene-d8	97	80-120
Bromofluorobenzene	106	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SB-3.5	Diln Fac:	0.9615
Lab ID:	214075-002	Batch#:	153738
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/11/09

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	SB-3.5	Diln Fac:	0.9615
Lab ID:	214075-002	Batch#:	153738
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/11/09

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	106	71-128
1,2-Dichloroethane-d4	112	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	106	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	BE-6.0	Diln Fac:	4.762
Lab ID:	214075-003	Batch#:	153685
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/10/09

Analyte	Result	RL
Freon 12	ND	48
Chloromethane	ND	48
Vinyl Chloride	ND	48
Bromomethane	ND	48
Chloroethane	ND	48
Trichlorofluoromethane	ND	24
Acetone	ND	95
Freon 113	ND	24
1,1-Dichloroethene	ND	24
Methylene Chloride	ND	95
Carbon Disulfide	ND	24
MTBE	ND	24
trans-1,2-Dichloroethene	ND	24
Vinyl Acetate	ND	240
1,1-Dichloroethane	ND	24
2-Butanone	ND	48
cis-1,2-Dichloroethene	ND	24
2,2-Dichloropropane	ND	24
Chloroform	ND	24
Bromochloromethane	ND	24
1,1,1-Trichloroethane	ND	24
1,1-Dichloropropene	ND	24
Carbon Tetrachloride	ND	24
1,2-Dichloroethane	ND	24
Benzene	ND	24
Trichloroethene	ND	24
1,2-Dichloropropane	ND	24
Bromodichloromethane	ND	24
Dibromomethane	ND	24
4-Methyl-2-Pentanone	ND	48
cis-1,3-Dichloropropene	ND	24
Toluene	ND	24
trans-1,3-Dichloropropene	ND	24
1,1,2-Trichloroethane	ND	24
2-Hexanone	ND	48
1,3-Dichloropropane	ND	24
Tetrachloroethene	ND	24

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	BE-6.0	Diln Fac:	4.762
Lab ID:	214075-003	Batch#:	153685
Matrix:	Soil	Sampled:	08/10/09
Units:	ug/Kg	Received:	08/10/09
Basis:	as received	Analyzed:	08/10/09

Analyte	Result	RL
Dibromochloromethane	ND	24
1,2-Dibromoethane	ND	24
Chlorobenzene	ND	24
1,1,1,2-Tetrachloroethane	ND	24
Ethylbenzene	ND	24
m,p-Xylenes	ND	24
o-Xylene	ND	24
Styrene	ND	24
Bromoform	ND	24
Isopropylbenzene	ND	24
1,1,2,2-Tetrachloroethane	ND	24
1,2,3-Trichloropropane	ND	24
Propylbenzene	ND	24
Bromobenzene	ND	24
1,3,5-Trimethylbenzene	ND	24
2-Chlorotoluene	ND	24
4-Chlorotoluene	ND	24
tert-Butylbenzene	ND	24
1,2,4-Trimethylbenzene	ND	24
sec-Butylbenzene	ND	24
para-Isopropyl Toluene	ND	24
1,3-Dichlorobenzene	ND	24
1,4-Dichlorobenzene	ND	24
n-Butylbenzene	ND	24
1,2-Dichlorobenzene	ND	24
1,2-Dibromo-3-Chloropropane	ND	24
1,2,4-Trichlorobenzene	ND	24
Hexachlorobutadiene	ND	24
Naphthalene	ND	24
1,2,3-Trichlorobenzene	ND	24

Surrogate	%REC	Limits
Dibromofluoromethane	103	71-128
1,2-Dichloroethane-d4	88	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	111	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC506811	Batch#:	153685
Matrix:	Soil	Analyzed:	08/10/09
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC506811	Batch#:	153685
Matrix:	Soil	Analyzed:	08/10/09
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	110	71-128
1,2-Dichloroethane-d4	96	69-135
Toluene-d8	100	80-120
Bromofluorobenzene	112	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	153685
Units:	ug/Kg	Analyzed:	08/10/09
Diln Fac:	1.000		

Type: BS Lab ID: QC506812

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.19	113	73-135
Benzene	25.00	26.88	108	80-125
Trichloroethene	25.00	25.26	101	80-127
Toluene	25.00	25.20	101	80-126
Chlorobenzene	25.00	24.17	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	113	71-128
1,2-Dichloroethane-d4	95	69-135
Toluene-d8	97	80-120
Bromofluorobenzene	109	77-131

Type: BSD Lab ID: QC506813

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.16	113	73-135	0	20
Benzene	25.00	26.20	105	80-125	3	20
Trichloroethene	25.00	25.54	102	80-127	1	20
Toluene	25.00	25.97	104	80-126	3	20
Chlorobenzene	25.00	24.34	97	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	113	71-128
1,2-Dichloroethane-d4	93	69-135
Toluene-d8	101	80-120
Bromofluorobenzene	110	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	153685
MSS Lab ID:	214078-003	Sampled:	08/10/09
Matrix:	Soil	Received:	08/10/09
Units:	ug/Kg	Analyzed:	08/11/09
Basis:	as received		

Type: MS Diln Fac: 0.9901
Lab ID: QC506916

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9488	49.50	54.50	110	58-145
Benzene	<0.9488	49.50	48.96	99	56-126
Trichloroethene	<0.9488	49.50	47.09	95	50-142
Toluene	<0.9488	49.50	44.97	91	52-125
Chlorobenzene	<0.9488	49.50	44.28	89	46-120

Surrogate	%REC	Limits
Dibromofluoromethane	115	71-128
1,2-Dichloroethane-d4	94	69-135
Toluene-d8	94	80-120
Bromofluorobenzene	107	77-131

Type: MSD Diln Fac: 0.9921
Lab ID: QC506917

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.60	53.91	109	58-145	1	28
Benzene	49.60	48.74	98	56-126	1	26
Trichloroethene	49.60	47.00	95	50-142	0	29
Toluene	49.60	44.65	90	52-125	1	29
Chlorobenzene	49.60	43.98	89	46-120	1	29

Surrogate	%REC	Limits
Dibromofluoromethane	114	71-128
1,2-Dichloroethane-d4	93	69-135
Toluene-d8	97	80-120
Bromofluorobenzene	108	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC507060	Batch#:	153738
Matrix:	Soil	Analyzed:	08/11/09
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC507060	Batch#:	153738
Matrix:	Soil	Analyzed:	08/11/09
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	104	69-135
Toluene-d8	97	80-120
Bromofluorobenzene	109	77-131

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	153738
Units:	ug/Kg	Analyzed:	08/11/09
Diln Fac:	1.000		

Type: BS Lab ID: QC507061

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.87	99	73-135
Benzene	25.00	24.01	96	80-125
Trichloroethene	25.00	24.45	98	80-127
Toluene	25.00	25.21	101	80-126
Chlorobenzene	25.00	24.70	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	71-128
1,2-Dichloroethane-d4	93	69-135
Toluene-d8	98	80-120
Bromofluorobenzene	98	77-131

Type: BSD Lab ID: QC507062

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.25	97	73-135	3	20
Benzene	25.00	24.59	98	80-125	2	20
Trichloroethene	25.00	23.69	95	80-127	3	20
Toluene	25.00	22.90	92	80-126	10	20
Chlorobenzene	25.00	23.87	95	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-128
1,2-Dichloroethane-d4	98	69-135
Toluene-d8	95	80-120
Bromofluorobenzene	102	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	153738
MSS Lab ID:	214077-010	Sampled:	08/10/09
Matrix:	Soil	Received:	08/10/09
Units:	ug/Kg	Analyzed:	08/11/09
Basis:	as received		

Type: MS Diln Fac: 1.000
Lab ID: QC507143

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.9843	50.00	46.10	92	58-145
Benzene	<0.9843	50.00	48.37	97	56-126
Trichloroethene	<0.9843	50.00	51.66	103	50-142
Toluene	<0.9843	50.00	47.29	95	52-125
Chlorobenzene	<0.9843	50.00	48.84	98	46-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	71-128
1,2-Dichloroethane-d4	114	69-135
Toluene-d8	100	80-120
Bromofluorobenzene	98	77-131

Type: MSD Diln Fac: 0.9901
Lab ID: QC507144

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.50	49.22	99	58-145	8	28
Benzene	49.50	50.98	103	56-126	6	26
Trichloroethene	49.50	52.36	106	50-142	2	29
Toluene	49.50	47.60	96	52-125	2	29
Chlorobenzene	49.50	46.60	94	46-120	4	29

Surrogate	%REC	Limits
Dibromofluoromethane	102	71-128
1,2-Dichloroethane-d4	115	69-135
Toluene-d8	99	80-120
Bromofluorobenzene	99	77-131

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	08/10/09
Units:	mg/Kg	Received:	08/10/09
Basis:	as received	Prepared:	08/10/09
Diln Fac:	1.000	Analyzed:	08/11/09
Batch#:	153720		

Field ID: SA-3.5 Lab ID: 214075-001
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	22	0.25
Lead	3.1	0.25
Nickel	15	0.25
Zinc	17	1.0

Field ID: SB-3.5 Lab ID: 214075-002
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	27	0.25
Lead	3.3	0.25
Nickel	21	0.25
Zinc	18	1.0

Field ID: BE-6.0 Lab ID: 214075-003
Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	33	0.25
Lead	5.1	0.25
Nickel	52	0.25
Zinc	35	1.0

Type: BLANK Lab ID: QC506962

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	153720
Units:	mg/Kg	Prepared:	08/10/09
Diln Fac:	1.000	Analyzed:	08/11/09

Type: BS Lab ID: QC506963

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.39	104	80-120
Chromium	100.0	100.1	100	80-120
Lead	100.0	99.56	100	80-120
Nickel	25.00	24.99	100	80-120
Zinc	25.00	24.85	99	80-120

Type: BSD Lab ID: QC506964

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.31	103	80-120	1	20
Chromium	100.0	98.40	98	80-120	2	20
Lead	100.0	97.57	98	80-120	2	20
Nickel	25.00	24.37	97	80-120	3	20
Zinc	25.00	25.25	101	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	153720
MSS Lab ID:	213988-001	Sampled:	08/03/09
Matrix:	Soil	Received:	08/05/09
Units:	mg/Kg	Prepared:	08/10/09
Basis:	as received	Analyzed:	08/11/09
Diln Fac:	1.000		

Type: MS Lab ID: QC506965

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.295	10.00	6.639	53 *	63-120
Chromium	132.7	100.0	193.5	61	52-128
Lead	13.35	100.0	63.22	50	49-124
Nickel	10.54	25.00	23.39	51	34-148
Zinc	13.06	25.00	27.58	58	25-159

Type: MSD Lab ID: QC506966

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	9.709	5.893	47 *	63-120	9	20
Chromium	97.09	184.0	53	52-128	4	25
Lead	97.09	56.20	44 *	49-124	9	31
Nickel	24.27	20.74	42	34-148	10	30
Zinc	24.27	25.15	50	25-159	7	33

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002644636	1	800-838-1477	006099769 JJK

5. Generator's Name and Mailing Address

PLACEWORKS LLC
1501 Pacific Ave., Alameda CA 94501

Generator's Site Address (if different than mailing address)

PLACEWORKS LLC
3645 San Pablo Ave., Emeryville, CA 94608

Generator's Phone: 510-499-9400

6. Transporter 1 Company Name: ~~DenBeste Transportation Inc.~~ J J PEREZ TRUCKING INC — U.S. EPA ID Number: ~~CAD982513579~~ CAR000154476

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number: CAT000646117

Chemical Waste Management
35251 Old Skyline Road
Kettleman City, CA 93239 559-386-9711

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. RQ Environmentally Hazardous Substances, Solid N.O.S., 9 UN3077, PG III, ~~(Lead) (Soil Impacted with > 10 LB Lead)~~	001	DT	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

LIC 9D64342

Profile #: a) CA578032 ERG: a)171 #64

Wear Proper PPE When Handling Material

15. 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Placeworks LLC — Signature: [signature] — Month Day Year: 07 29 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Frane Clement — Signature: [signature] — Month Day Year: 07 29 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jamie Ward — Signature: Jamie Ward — Month Day Year: 07 29 09

SARC Oct. 30. 2009 3:12PM KETTLEMAN HILLS FACILITY ASPRCWMENV No. 0550 P. 2:08:56

Load Status

Receipt # 000740846 Transporter JJ PEREZ & SONS TRUCKING
Truck # Load Priority Scheduled On-time Comments Exist?
1st Doc # 006099769JJK Load Type Dumps

I. TRUCK ARRIVES
Arrived 7/29/09 13:06 WMO813RLF
Weigh-in 7/29/09 13:10 WMO813RLF

II. PAPERWORK REVIEW
Reviewed 7/29/09 13:17
by WMO813SP1

III. SAMPLE WASTE/UNLOAD TRUCK
Accept Status A Accepted
Accept/Rej 7/29/09 13:43
by WMO813SP1
Unloaded 7/29/09 13:29
by WMO813SP1

IV. PROBLEM RESOLUTION
Problem Status No Problems
Resolved
by

V. FINAL REVIEW/TRUCK DEPARTS
Weigh Out 7/29/09 13:40
by WMO813SP1

** WEIGHT SUMMARY **

Gross	81000.00
- Tare	30100.00
= Net	50900.00
+ Adjustment	
= Adj. Net	50900.00

Ver#09.1

F3=Exit F12=Prompt F15=Problems F22=Comments

4008

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Applicable	2. Page 1 of: 1	3. Emergency Response Phone: 800-838-1477	4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address
Placeworks LLC
1501 Pacific Ave., Alameda., CA 94501
Generator's Phone:

Generator's Site Address (if different than mailing address)
3645 San Pablo Ave
Emeryville Ca

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
NWS Hay Road Landfill
6426 Hay Rd., Vacaville, CA 95687
(707) 678-4718
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.	Class II Soil	1	DT	18		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Level D PPE (Coveralls, Hard Hat, Safety Vest
Profile #4446

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: PLACEWORKS LLC — Signature: [signature] — Month: 8 — Day: 10 — Year: 09

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

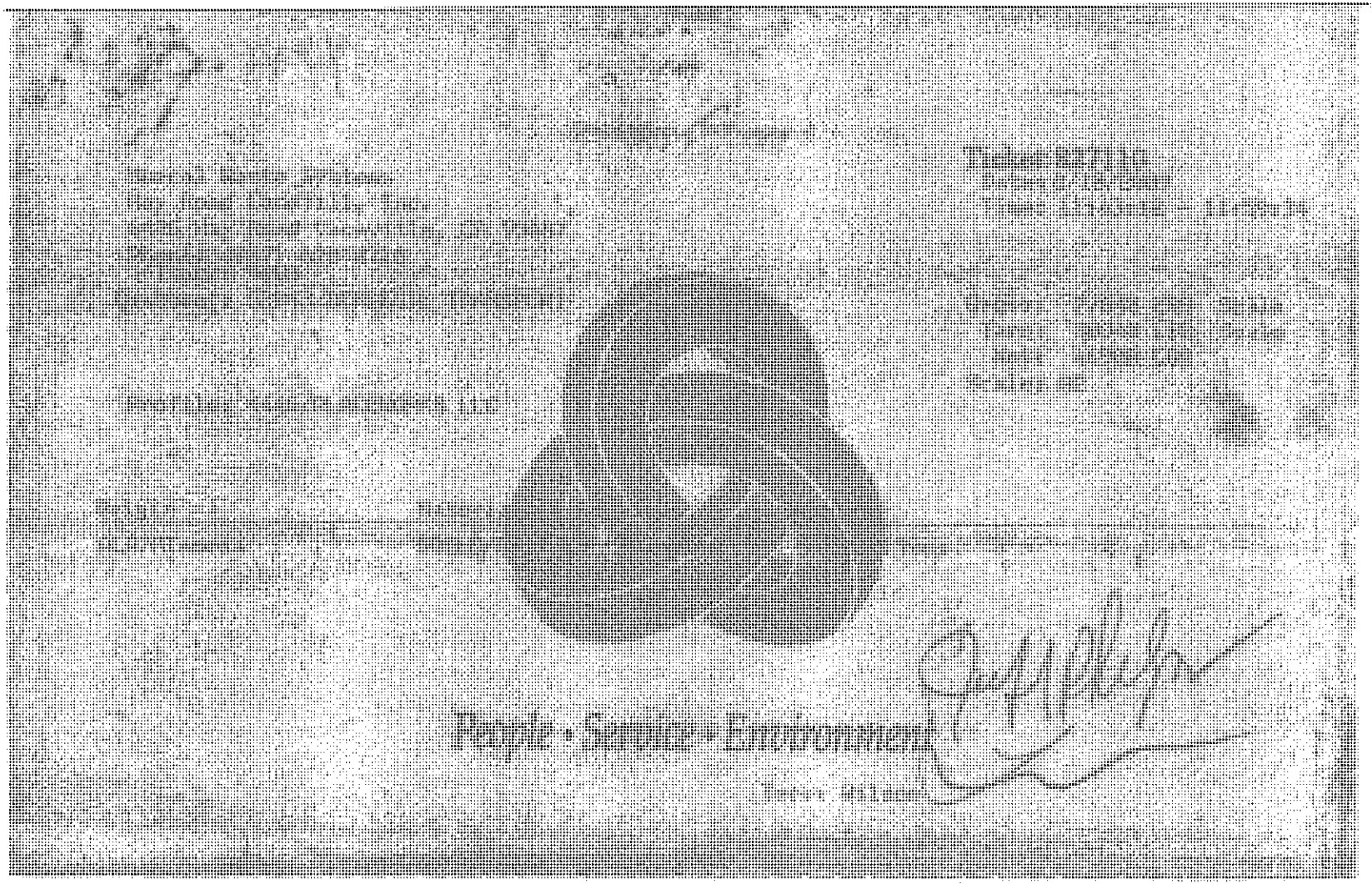
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Phelps — Signature: [signature] — Month: 8 — Day: 10 — Year: 09
Transporter 2 Printed/Typed Name: — Signature: — Month: — Day: — Year:

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: Joseph Snyder — Signature: [signature] — Month: 8 — Day: 10 — Year: 09

189-GLC-O 6 10498 (Rev. 8/06) — TRANSPORTER #1


People • Service • Environment

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Applicable

2. Page 1 of: 1

3. Emergency Response Phone: 800-838-1477

4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address
Placeworks LLC
1501 Pacific Ave., Alameda, CA 94501

Generator's Site Address (if different than mailing address)
3645 San Pablo Ave
Emeryville CA

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
NWS Hay Road Landfill
6426 Hay Rd., Vacaville, CA 95687
(707) 678-4718

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.	Class II Soil	1	DT	18		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Level D PPE Glove, Hard Hat, Safety Vest
Profile #4446

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: PLACEWORKS LLC
Signature:
Month: 8 Day: 10 Year: 09

INTL

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: JEFF PHELPS
Signature:
Month: 8 Day: 10 Year: 09

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:

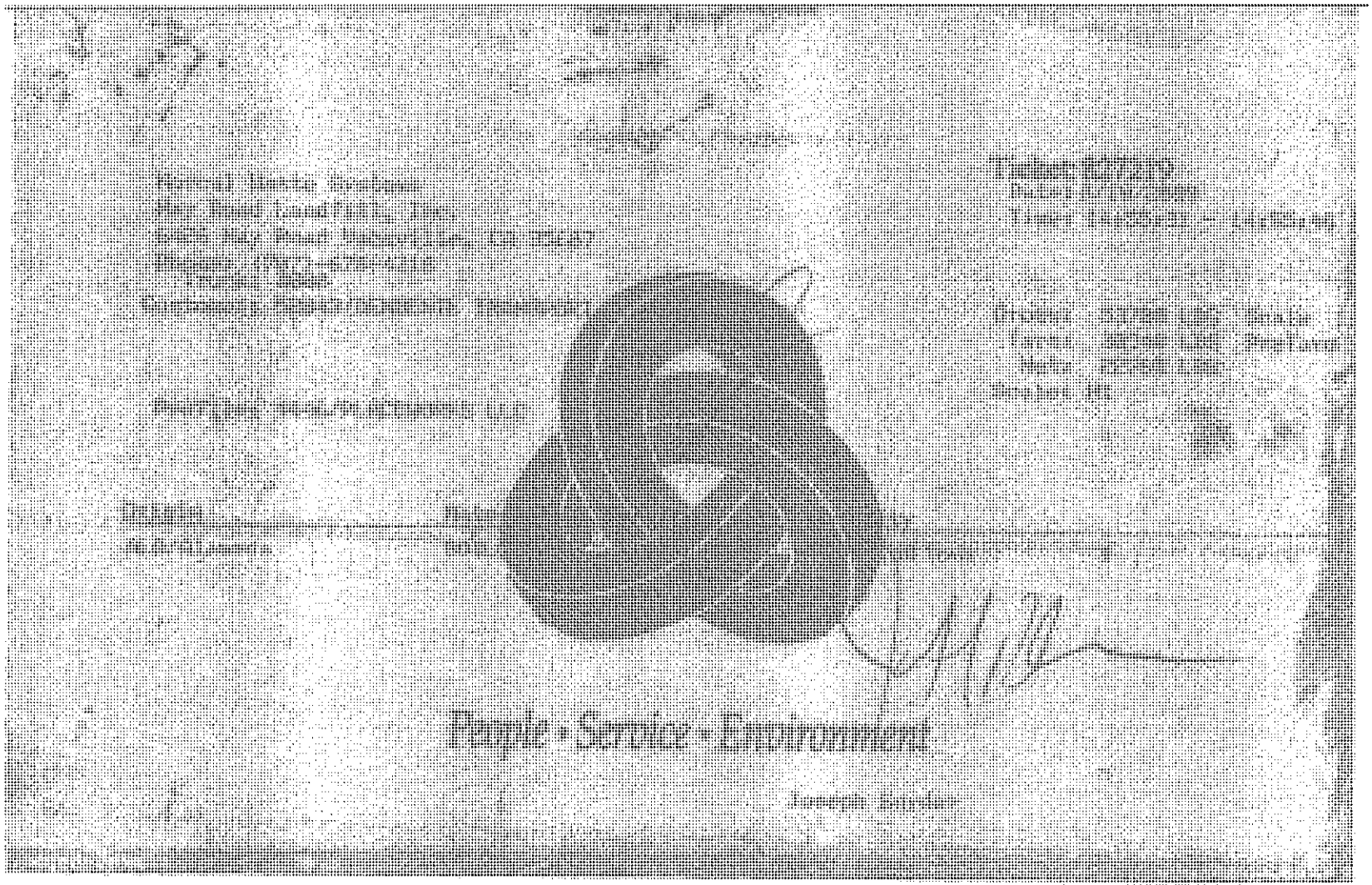
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Bryan Sanchez
Signature:
Month: 10 Day: 10 Year: 09

169-BLC-O 6 10496 (Rev. 8/06)

TRANSPORTER #1


People • Service • Environment

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Applicable	2. Page 1 of: 1	3. Emergency Response Phone: 800-832-1477	4. Waste Tracking Number:

5. Generator's Name and Mailing Address: Placeworks LLC, 1501 Pacific Ave., Alameda, CA 94501
Generator's Site Address (if different than mailing address): 3645 Shoreline Ave. Emeryville, CA
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: NWS Hay Road Landfill, 6426 Hay Rd., Vacaville, CA 95687, (707) 678-4718 — 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.	
GENERATOR	1. Class II Soil.	1	DT	18		
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Level D PPE Gloves, Hart Hat, Safety Vest
Profile #4446

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: PLACEWORKS LLC — Signature — Month: 10 Day: 10 Year: 09

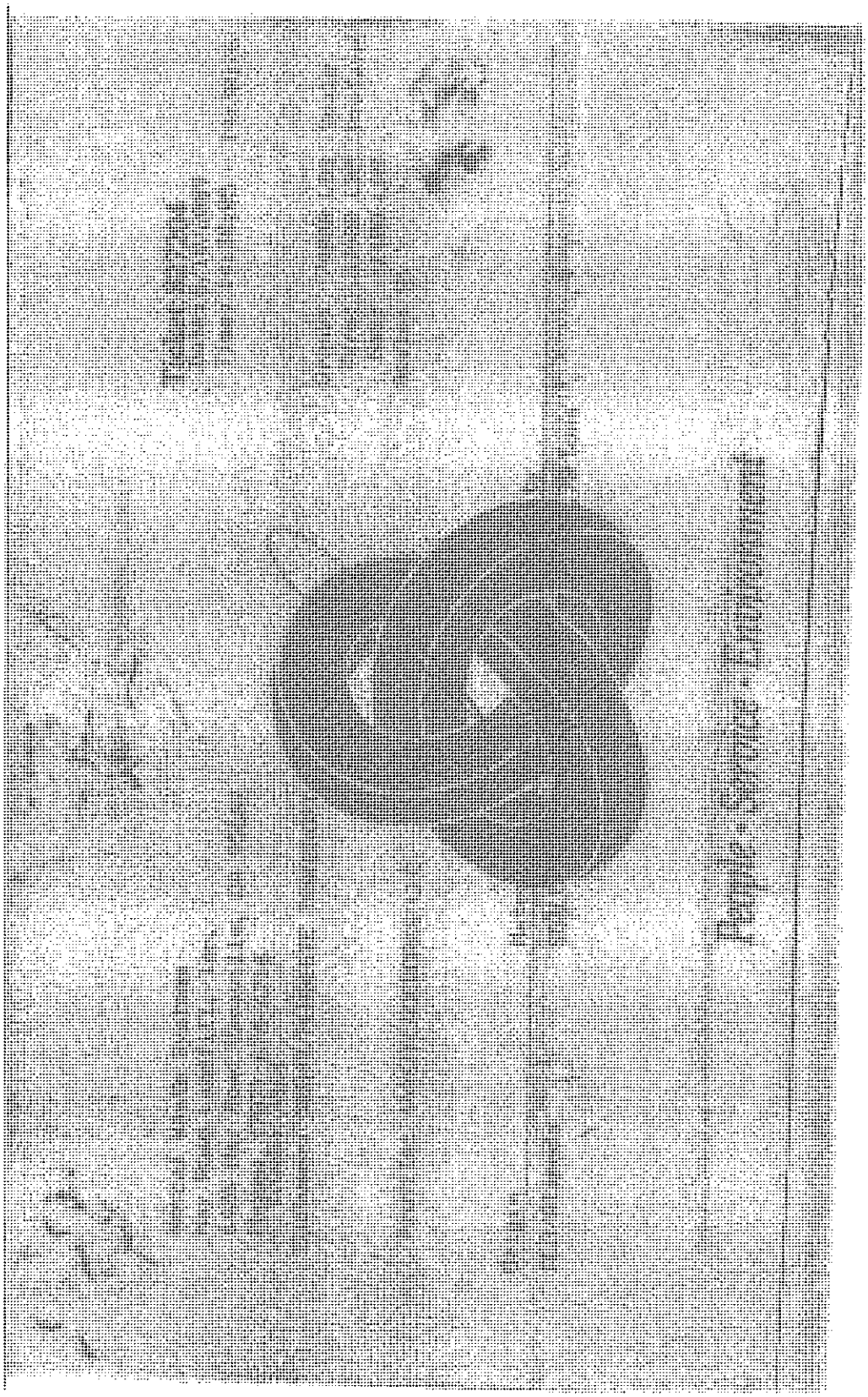
INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgement of Receipt of Materials
Transporter 1 Printed/Typed Name: SAN BASRA — Signature — Month: 10 Day: 10 Year: 09
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: Joseph Sayler — Signature — Month: 10 Day: 10 Year: 09

169-BLC-O 6 10499 (Rev. 8/08) TRANSPORTER #1



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Applicable	1	800-828-1477	

5. Generator's Name and Mailing Address
Placeworks LLC
1501 Pacific Ave., Alameda, CA 94501

Generator's Site Address (if different than mailing address)
3645 SAN PABLO AVE
EMERYVILLE CA

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
NWS Hay Road Landfill
6426 Hay Rd., Vacaville, CA 95687
(707) 678-4718

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.	Class II Soil	1	DT	18		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Level D PPE Gloves, Hard Hat, Safety Vest
Profile #4446

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: PLACEWORKS LLC — Signature: [signature] — Month: 08 — Day: 10 — Year: 09

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SAN BASIN — Signature: [signature] — Month: 08 — Day: 10 — Year: 09

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

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: Joseph Snyder — Signature: [signature] — Month: 8 — Day: 10 — Year: 09

GENERATOR | TRANSPORTER | INTL | DESIGNATED FACILITY

People • Service • Environment

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Applicable	2. Page 1 of: 1	3. Emergency Response Phone: 800-838-1477	4. Waste Tracking Number:

5. Generator's Name and Mailing Address: Placeworks LLC, 1501 Pacific Ave., Alameda, CA 94501
Generator's Site Address (if different than mailing address): 3645 San Pablo Ave. Emeryville CA
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: NWS Hay Road Landfill, 6426 Hay Rd., Vacaville, CA 95687, (707) 678-4718 — 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.	Class II Soil.	1	DT	18	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Level D PPE: Gloves, Hard Hat, Safety Vest
Profile #4486

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: PLACEWORKS LLC — Signature — Month 8 Day 19 Year 05

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Darrell Ford — Signature — Month 8 Day 10 Year 05
Transporter 2 Printed/Typed Name — Signature — Month Day Year

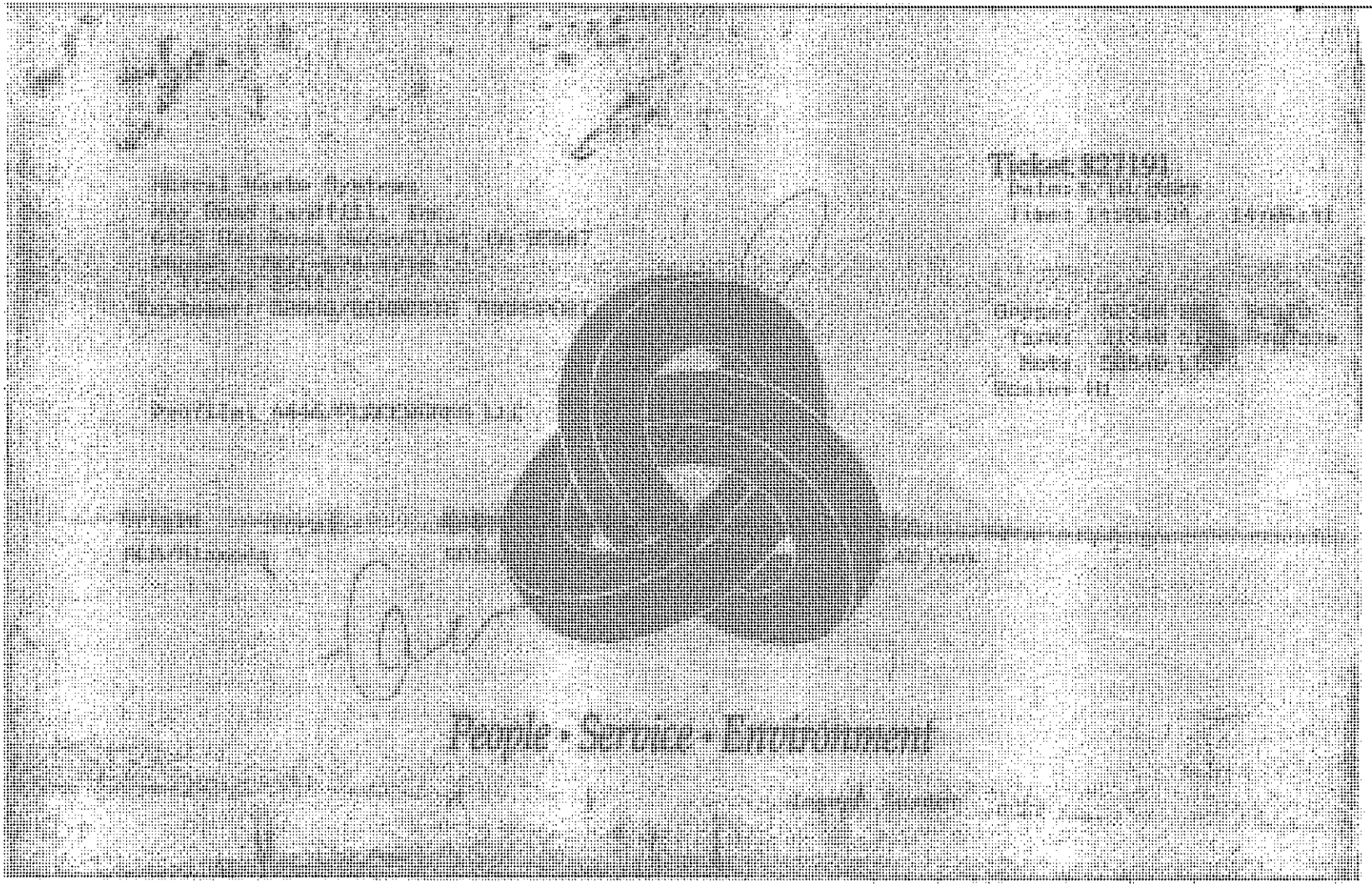
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

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: Dwight Snyder — Signature — Month 8 Day 10 Year 05

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY


People • Service • Environment

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Applicable	2. Page 1 of: 1	3. Emergency Response Phone: 800-638-1477	4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address: Pacworks LLC, 1901 Pacific Ave., Alameda., CA 94501

Generator's Site Address (if different than mailing address): 3695 San Pablo Ave Emeryville CA

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: NWS Hay Road Landfill, 6426 Hay Rd., Vacaville, CA 95687, (707) 678-4718 — 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.	Class II Soil	1	DT	18		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information: Level D PPE (Gloves, Hard Hat, Safety Vest) Profile #4446

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [signature] — Month: 9 — Day: 30 — Year: 09

INTL

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] Thomas — Signature: [signature] — Month: 10 — Day: 1 — Year: 09

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: Dsoya Seya — Signature: [signature] — Month: 10 — Day: 1 — Year: 09