Carryl MacLeod
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
cmacleod@chevron.com

RECEIVED
By Alameda County Environmental Health at 1:47 pm, Sep 29, 2014

September 24, 2014

Mr. Mark Detterman
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Union Oil Company of California Service Station
(CEMC 371572)
3645 San Pablo Avenue
Emeryville, California

I have reviewed and agree with the data presented in the attached *Waste Disposal Documentation* report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Carryl MacLeod
Project Manager

Attachment: *Waste Disposal Documentation*

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

September 24, 2014 Reference No. 062056

Mr. Mark Detterman
Alameda County Environmental Health Services (ACEHS)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Waste Disposal Documentation
Former Union Oil Company of California Service Station
(CEMC 371572)
3645 San Pablo Road
Emeryville, California
ACEH Case RO0003068

Dear Mr. Detterman:

Persuant to ACEHS e-mail correspondence dated September 8, 2014, Conestoga-Rovers and Associates (CRA) is submitting the attached waste disposal documentation for waste generated during site assessment activities performed at the site referenced above between January 28 through January 30, 2014, on behalf of Chevron Environmental Management Company (Chevron).

Please contact Mr. Brian Silva of CRA at 916-889-8908 or Ms. Carryl MacLeod of Chevron with any questions or concerns you may have.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

PROFESSIONAL GEOLOGIST
GREG BARCLAY
No. 6260
STATE OF CALIFORNIA

Brian Silva Greg Barclay, PG 6260

BS/mws/3
Encl.

cc: Ms. Carryl MacLeod, Chevron *(electronic copy)*

One Team Waste Services

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

PROJECT SUMMARY

TO:	NAWTDesk	REF. NO:	062056
CHEVRON PM:	Carryl MacLeod	EMC BUSINESS UNIT:	MBU
FROM:	Catharina Beckwith	DATE:	February 14, 2014
SUPPLIER PM:	Brian Silva	SUPPLIER COMPANY	CRA

RE: Former Unocal 371572–WR1631-062056 - Disposal of Hazardous Waste

This summary is for Waste Pick-up, Transportation, and Disposal of *3 drums of soil contaminated with lead, Non-RCRA hazardous and 2 drums of corrosive liquid, RCRA hazardous* generated from well destruction activities for Waste Request 1631.

GENERATOR/SITE INFORMATION

Facility ID: 371572 Facility Name: Former Unocal 371572

Location: 3645 San Pablo Ave, Emeryville, CA 94608

WASTESTREAM INFORMATION

Profile: 506903 Non RCRA hazardous waste solid (soil contaminated with lead)

Profile: 506917 UN3266, Corrosive liquid, basic, inorganic, RCRA Hazardous

SHIPPING INFORMATION

Transporter: Belshire Environmental Services, Inc.

DISPOSAL FACILITY INFORMATION

Manifest No.:	009580668JJK	Ship Date:	1/28/14
Facility:	Veolia-Azusa	Received Date:	2/6/14
Location:	1704 West First Street Azusa, CA 91702		
Manifest No.:	009580669JJK	Ship Date:	1/29/14
Facility:	Veolia-Azusa	Received Date:	2/6/14
Location:	1704 West First Street Azusa, CA 91702		
Manifest No.:	009580670JJK	Ship Date:	1/30/14

CRA PROJECT SUMMARY

Facility:	Veolia-Azusa	Received Date:	2/6/14
Location:	1704 West First Street Azusa, CA 91702		

ATTACHMENTS

Final Manifest(s)/Bill of Lading	☑	DTSC Stamped Manifest	☑
Generator Manifest(s)/Bill of Lading	☑	LDR (if applicable)	☑
Profile Approval (if available)	☐	Signed Profile	☑
Analytical	☑	Certificate of Destruction (COD)	☐
Other: _____	☐		

371572

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: CAR000242073
2. Page 1 of: 1
3. Emergency Response Phone: 1-800-424-9300
4. Manifest Tracking Number: 009580670 JJK

5. Generator's Name and Mailing Address
Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
Generator's Phone: 877 386-6044

Generator's Site Address (if different than mailing address)
3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Belshire
U.S. EPA ID Number: CAR000183913

7. Transporter 2 Company Name: BELSHIRE
U.S. EPA ID Number: CAR000183913

8. Designated Facility Name and Site Address
Veolia Environmental Services - Azusa, California
1704 West 1st Street
Azusa, CA 91702
Facility's Phone: 626 334 5117
U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid (soil contaminated with lead)	001	D M	200	P	611		
X	2. RQ UN3266, Waste Corrosive Liquid, Basic, Inorganic, n.o.s., (Concrete rinsate mix), 8, PGIII. (D002)	001	D M	15	G	122	D002	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b1 506903 Soil ERG N/A
9b2 506917 - BLI ERG 154
NEAR LEVEL D P
PRESENT
WR 1631
B H

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: Bryan Sandor as agent for CEMC
Signature: BCL as agent for CEMC
Month: 01 Day: 30 Year: 14

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

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STEVEN E. MENDOZA
Signature: Steven E. Mendoza
Month: 01 Day: 30 Year: 14

Transporter 2 Printed/Typed Name: Jose Carreyra
Signature:
Month: 02 Day: 06 Year: 14

DESIGNATED FACILITY
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. H141 2. H141 3. 4.

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: Fiorella Arias
Signature: Fiorella Arias
Month: 02 Day: 06 Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

371572

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
CAR000242073	1	1-800-424-9300	009580669 JJK

GENERATOR

5. Generator's Name and Mailing Address
Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
877 386-6044
Generator's Phone:

Generator's Site Address (if different than mailing address)
3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Belshire — U.S. EPA ID Number: CAR0001

7. Transporter 2 Company Name: BELSHIRE — U.S. EPA ID Number: CAR000183911

8. Designated Facility Name and Site Address
Veolia Environmental Services - Azusa, California
1704 West 1st Street
Azusa, CA 91702
Facility's Phone: 626-334-5117
U.S. EPA ID Number: CAD008302903

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid (Soil contaminated with lead)	001	DM	250	P	611		
X	2. RQ UN3266, Waste Corrosive Liquid, Basic, Inorganic, n.o.s., (Concrete rinsate mix), 8, PGIII. (D002)	001	DM	040	G	122	D002	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b1 506903 Soil ERG N/A
9b2 506917 - BLI ERG 154
WEAR LEVEL D PPE GLOVES, PRESENT WR 1631 PLASH
SI # 23

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: Bryan Saylor as agent for CEMC
Signature: as agent for CEMC
Month: 01 Day: 29 Year: 14

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STEVEN E. MENDOZA
Signature:
Month: 01 Day: 29 Year: 14

Transporter 2 Printed/Typed Name: Jose Ferreyra
Signature:
Month: 02 Day: 06 Year: 14

DESIGNATED FACILITY

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.
H141	H141		

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: Adriana Arias
Signature:
Month: 02 Day: 10 Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

371572

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
CAR000242073	1	1-800-424-9300	009580668 JJK

GENERATOR

5. Generator's Name and Mailing Address
Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
Generator's Phone: 877 386-6044

Generator's Site Address (if different than mailing address)
3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Belshire — U.S. EPA ID Number: CAR000183913

7. Transporter 2 Company Name: BELSHIRE — U.S. EPA ID Number: CAR000183913

8. Designated Facility Name and Site Address
Veolia Environmental Services - Azusa, California
1704 West 1st Street
Azusa, CA 91702
Facility's Phone: 626-334-5117
U.S. EPA ID Number: CAD008302903

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Solid (soil contaminated with lead)	001	D M	115	P	611		
X	2. ~~UN3266, Waste Corrosive Liquid, Basic, Inorganic, n.o.s., (Concrete rinsate mix), 8, II~~ ~~PGIII~~ BS 1/28/14		D M			~~122~~	D002	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b1 506903 Soil ERG N A
~~9b2 506917 Bs I ERG 154~~ BS 1/28/14
WEAR LEVEL D PPE GLOVES, GOGGLES, SPLASH PROTECTIO
PRE ENT
WR 1631
Bs # 234065

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: BRYAN SANDR as agent for CEMC — Signature: as agent for CEMC — Month 01 Day 28 Year 14

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STEVEN E. MENDOZA — Signature — Month 01 Day 28 Year 14

Transporter 2 Printed/Typed Name: Bob Ferreira — Signature — Month 02 Day 06 Year 14

DESIGNATED FACILITY

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.
H141			

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: Andrea Arias — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM PHASE IV

Generator Name: Former Unocal 371572 **EPA ID #** CAR000242073 **State Manifest No.** 009580670JJK

1. If waste is a waste water (see 40CFR 268.2) place "w" next to the applicable code (s)

Profile # 506917

2. CODES WITH SUB CATEGORIES (place appropriate letter from section 8 before each code that applies) (See 40 CFR 268 for details)

___	D001	HI-TOC	___	D008	Lead Acid batteries	___	KO69	Not Calcium Sulfate	___	P065	Lo RMERC Res.	___	U151	Hi Hg
___	D001	Except HI-TOC	___	D009	Organic Hg > 260 ppm	___	K071	Rmerc Res.	___	P065	Not Inc./RMERC Res.	___	U240	2, 4 D
___	D003	Reactive Cyanide	___	D009	Inorg. Hg>260ppm	___	K071	Not Rmerc Res.	___	P065	Hi Inc./RMERC Res.	___	U240	2, 4 esters & Salts
___	D003	Reactive Sulfide	___	D009	Hg<260	___	K106	Lo Rmerc Res.	___	P092	Lo Inc. Res.			
___	D003	Explosive	___	F025	Light ends	___	K106	Not Rmerc Res.	___	P092	Lo RMERC Res.			
___	D003	Water Reactives	___	F025	Spent filter	___	K106	>260 ppm Hg	___	P092	Not Inc./RMERC Res.			
___	D003	Unexp Ord.Emg	___	K006	Hydrated	___	P047	Salts	___	P092	Hi Inc./RMERC Res.			
___	D003	Other Reactives	___	K006	Anhydrous	___	P047	Nonsalts	___	U151	Lo RMERC Res.			
___	D006	Batteries	___	K069	Calcium Sulfate	___	P065	Lo Inc. Res.	___	U151	Lo Not RMERC Res.			

The subcategory for D018-D043 waste is "treated in nonCWA/ nonSDWA facility" unless the following box is checked: ☐ "treated in CWA/SDWA facility"

3. COMMON CODES (Place appropriate letter from section 8 before each code that applies)

A.o	D002	___ P012	___ P030	___ P051	___ P098	___ P105	___ P205	___ F006	___ F007	___ F008	___ F009	___ F010	___ F011	___ F012	___ F019	___ F039				
	D004	___ D005	___ D006	___ D007	___ D008	___ D009	___ D010	___ D011	D012	___ D013	___ D014	___ D015	___ D016	___ D017	D018	___ D019				
	D020	___ D021	___ D022	___ D023	___ D024	___ D025	___ D026	___ D027	D028	___ D029	___ D030	___ D031	___ D032	___ D033	D034	___ D035				
	D036	___ D037	___ D038	___ D039	___ D040	___ D041	___ D042	___ D043	F001	___ F002	___ F003	___ F004	___ F005	___ U002	U003	___ U005				
	U007	___ U044	___ U061	___ U072	___ U080	___ U108	___ U117	___ U122	U123	___ U136	___ U154	___ U188	___ U213	___ U220	U226	___ U279				
																___ K061				

ADDITIONAL CODES (Enter all codes not identified above which are associated with waste)

4. USEPA HAZARDOUS WASTE CODE(S)	5. TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268.41, 268.43 OR SPECIFIED TECHNOLOGY BELOW	6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW

To identify F039 or UHCs manage in non-CWA, use the "F039/Underlying Hazardous Constituents Form" provided and check here: ☐

If no UHCs are present upon generation check here: ☐ Check here if disposal facility will check for all UHCs ☐ (i.e no UHC form required)

To list additional EPA waste code(s), use the supplemental sheet and check here: ☐ In lieu of supplemental sheet you may use multiple copies of this form.

7. SOLVENTS CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents ___

___ Acetone	___ Benzene	___ n-Butyl alcohol	___ Carbon disulfide
___ Carbon Tetrachloride	___ Chlorobenzene	___ O-Cresol	___ Cresols (m&p)
___ Cyclohexanons	___ o-Dichlorobenzene	___ 2-Ethoxyethanol	___ Ethyl acetate
___ Ethyl benzene	___ Ethyl ether	___ isobutanol	___ Methanol
___ Methylene chloride	___ Methyl ethyl ketone	___ Methyl isobutyl ketone	___ Nitrobenzene
___ 2-Nitropropane	___ Pyridine	___ Tetrachloroethylene	___ Toluene
___ 1,1,1-Trichloroethane	___ 1,1,2-Trichloroethane	___ 1,1,2-Trichloro,1,2,2-trifluoroethane	___ Trichloroethylene
___ Trichloromonofluoromethane	___ Xylenes		

8 (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A.o RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and

B.2 (CERTIFICATION REMOVED BY PHASE IV)

B.3 GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents has been treated by combustion units as specified in 268.42. Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSE WITHOUT FURTHER TREATMENT

" I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

E. WASTE NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature Robert Larsen, as agent for CEMC Robert Larsen as agent for CEMC

Title SME/Conestoga-Rovers and Associates Date 1.7.2014

FORM # 0ES-78B

GENERATOR COPY

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM PHASE IV

Generator Name: Former Unocal 371572 **EPA ID #** CAR000242073 **State Manifest No.** 009580669JJK

1. If waste is a waste water (see 40CFR 268.2) place "w" next to the applicable code (s)

Profile # 506917

2. CODES WITH SUB CATEGORIES (place appropriate letter from section 8 before each code that applies) (See 40 CFR 268 for details)

___	D001	HI-TOC	___	D008	Lead Acid batteries	___	KO69	Not Calcium Sulfate	___	P065	Lo RMERC Res.	___	U151	Hi Hg
___	D001	Except HI-TOC	___	D009	Organic Hg > 260 ppm	___	K071	Rmerc Res.	___	P065	Not Inc./RMERC Res.	___	U240	2, 4 D
___	D003	Reactive Cyanide	___	D009	Inorg. Hg>260ppm	___	K071	Not Rmerc Res.	___	P065	Hi Inc./RMERC Res.	___	U240	2, 4 esters & Salts
___	D003	Reactive Sulfide	___	D009	Hg<260	___	K106	Lo Rmerc Res.	___	P092	Lo Inc. Res.			
___	D003	Explosive	___	F025	Light ends	___	K106	Not Rmerc Res.	___	P092	Lo RMERC Res.			
___	D003	Water Reactives	___	F025	Spent filter	___	K106	>260 ppm Hg	___	P092	Not Inc./RMERC Res.			
___	D003	Unexp Ord.Emg	___	K006	Hydrated	___	P047	Salts	___	P092	Hi Inc./RMERC Res.			
___	D003	Other Reactives	___	K006	Anhydrous	___	P047	Nonsalts	___	U151	Lo RMERC Res.			
___	D006	Batteries	___	K069	Calcium Sulfate	___	P065	Lo Inc. Res.	___	U151	Lo Not RMERC Res.			

The subcategory for D018-D043 waste is "treated in nonCWA/ nonSDWA facility" unless the following box is checked: ☐ "treated in CWA/SDWA facility"

3. COMMON CODES (Place appropriate letter from section 8 before each code that applies)

A.o	D002	___ P012	___ P030	___ P051	___ P098	___ P105	___ P205	___ F006	___ F007	___ F008	___ F009	___ F010	___ F011	___ F012	___ F019	___ F039				
	D004	___ D005	___ D006	___ D007	___ D008	___ D009	___ D010	___ D011	___ D012	___ D013	___ D014	___ D015	___ D016	___ D017	___ D018	___ D019				
	D020	___ D021	___ D022	___ D023	___ D024	___ D025	___ D026	___ D027	___ D028	___ D029	___ D030	___ D031	___ D032	___ D033	___ D034	___ D035				
	D036	___ D037	___ D038	___ D039	___ D040	___ D041	___ D042	___ D043	___ F001	___ F002	___ F003	___ F004	___ F005	___ U002	___ U003	___ U005				
	U007	___ U044	___ U061	___ U072	___ U080	___ U108	___ U117	___ U122	___ U123	___ U136	___ U154	___ U188	___ U213	___ U220	___ U226	___ U279				
																___ K061				

ADDITIONAL CODES (Enter all codes not identified above which are associated with waste)

4. USEPA HAZARDOUS WASTE CODE(S)	5. TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268.41, 268.43 OR SPECIFIED TECHNOLOGY BELOW	6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW

To identify F039 or UHCs manage in non-CWA, use the "F039/Underlying Hazardous Constituents Form" provided and check here: ☐

If no UHCs are present upon generation check here: ☐ Check here if disposal facility will check for all UHCs ☐ (i.e no UHC form required)

To list additional EPA waste code(s), use the supplemental sheet and check here: ☐ In lieu of supplemental sheet you may use multiple copies of this form.

7. SOLVENTS CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents ___

___ Acetone	___ Benzene	___ n-Butyl alcohol	___ Carbon disulfide
___ Carbon Tetrachloride	___ Chlorobenzene	___ O-Cresol	___ Cresols (m&p)
___ Cyclohexanons	___ o-Dichlorobenzene	___ 2-Ethoxyethanol	___ Ethyl acetate
___ Ethyl benzene	___ Ethyl ether	___ isobutanol	___ Methanol
___ Methylene chloride	___ Methyl ethyl ketone	___ Methyl isobutyl ketone	___ Nitrobenzene
___ 2-Nitropropane	___ Pyridine	___ Tetrachloroethylene	___ Toluene
___ 1,1,1-Trichloroethane	___ 1,1,2-Trichloroethane	___ 1,1,2-Trichloro,1,2,2-trifluoroethane	___ Trichloroethylene
___ Trichloromonofluoromethane	___ Xylenes		

8 (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A.o RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and

B.2 (CERTIFICATION REMOVED BY PHASE IV)

B.3 GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents has been treated by combustion units as specified in 268.42. Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSE WITHOUT FURTHER TREATMENT

" I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

E. WASTE NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature Robert Larsen, as agent for CEMC Robert Larsen as agent for CEMC

Title **SME/Conestoga-Rovers and Associates** Date 1·7·2014

FORM # 0ES-78B

GENERATOR COPY

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM PHASE IV

Generator Name: Former Unocal 371572 **EPA ID #** CAR000242073 **State Manifest No.** 009580668JJK

1. If waste is a waste water (see 40CFR 268.2) place "w" next to the applicable code (s)

Profile # 506917

2. CODES WITH SUB CATEGORIES (place appropriate letter from section 8 before each code that applies) (See 40 CFR 268 for details)

___	D001	HI-TOC	___	D008	Lead Acid batteries	___	K069	Not Calcium Sulfate	___	P065	Lo RMERC Res.	___	U151	Hi Hg	
___	D001	Except HI-TOC	___	D009	Organic Hg > 260 ppm	___	K071	Rmerc Res.	___	P065	Not Inc./RMERC Res.	___	U240	2, 4 D	
___	D003	Reactive Cyanide	___	D009	Inorg. Hg>260ppm	___	K071	Not Rmerc Res.	___	P065	Hi Inc./RMERC Res.	___	U240	2, 4 esters & Salts	
___	D003	Reactive Sulfide	___	D009	Hg<260	___	K106	Lo Rmerc Res.	___	P092	Lo Inc. Res.				
___	D003	Explosive	___	F025	Light ends	___	K106	Not Rmerc Res.	___	P092	Lo RMERC Res.				
___	D003	Water Reactives	___	F025	Spent filter	___	K106	>260 ppm Hg	___	P092	Not Inc./RMERC Res.				
___	D003	Unexp Ord.Emg	___	K006	Hydrated	___	P047	Salts	___	P092	Hi Inc./RMERC Res.				
___	D003	Other Reactives	___	K006	Anhydrous	___	P047	Nonsalts	___	U151	Lo RMERC Res.				
___	D006	Batteries	___	K069	Calcium Sulfate	___	P065	Lo Inc. Res.	___	U151	Lo Not RMERC Res.				

The subcategory for D018-D043 waste is "treated in nonCWA/ nonSDWA facility" unless the following box is checked: ☐ "treated in CWA/SDWA facility"

3. COMMON CODES (Place appropriate letter from section 8 before each code that applies)

A.o	D002	P012	P030	P051	P098	P105	P205	F006	F007	F008	F009	F010	F011	F012	F019	F039			
___	D004	___ D005	___ D006	___ D007	___ D008	___ D009	___ D010	___ D011	D012	D013	D014	___ D015	___ D016	___ D017	___ D018	___ D019			
___	D020	___ D021	___ D022	___ D023	___ D024	___ D025	___ D026	___ D027	D028	D029	D030	___ D031	___ D032	___ D033	___ D034	___ D035			
___	D036	___ D037	___ D038	___ D039	___ D040	___ D041	___ D042	___ D043	F001	F002	F003	___ F004	___ F005	___ U002	___ U003	___ U005			
___	U007	___ U044	___ U061	___ U072	___ U080	___ U108	___ U117	___ U122	U123	U136	U154	___ U188	___ U213	___ U220	___ U226	___ U279			
																___ K061			

ADDITIONAL CODES (Enter all codes not identified above which are associated with waste)

4. USEPA HAZARDOUS WASTE CODE(S)	5. TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268.41, 268.43 OR SPECIFIED TECHNOLOGY BELOW	6. HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW

To identify F039 or UHCs manage in non-CWA, use the "F039/Underlying Hazardous Constituents Form" provided and check here: ☐

If no UHCs are present upon generation check here: ☑ Check here if disposal facility will check for all UHCs ☐ (i.e no UHC form required)

To list additional EPA waste code(s), use the supplemental sheet and check here: ☐ In lieu of supplemental sheet you may use multiple copies of this form.

7. SOLVENTS CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents ___

___ Acetone	___ Benzene	___ n-Butyl alcohol	___ Carbon disulfide
___ Carbon Tetrachloride	___ Chlorobenzene	___ O-Cresol	___ Cresols (m&p)
___ Cyclohexanons	___ o-Dichlorobenzene	___ 2-Ethoxyethanol	___ Ethyl acetate
___ Ethyl benzene	___ Ethyl ether	___ isobutanol	___ Methanol
___ Methylene chloride	___ Methyl ethyl ketone	___ Methyl isobutyl ketone	___ Nitrobenzene
___ 2-Nitropropane	___ Pyridine	___ Tetrachloroethylene	___ Toluene
___ 1,1,1-Trichloroethane	___ 1,1,2-Trichloroethane	___ 1,1,2-Trichloro,1,2,2-trifluoroethane	___ Trichloroethylene
___ Trichloromonofluoromethane	___ Xylenes		

8 (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A.o RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and

B.2 (CERTIFICATION REMOVED BY PHASE IV)

B.3 GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

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B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

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C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

☐ For Hazardous Debris: " This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSE WITHOUT FURTHER TREATMENT

" I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

E. WASTE NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature Robert Larsen, as agent for CEMC Robert Larsen as agent for CEMC

Title SME/Conestoga-Rovers and Associates Date 1.7.2014

FORM # 0ES-78B

GENERATOR COPY

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
	[illegible]	1	[illegible]	009580670 JJK

5. Generator's Name and Mailing Address

Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583

Generator's Phone: [illegible]

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

3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Belshire — U.S. EPA ID Number: [illegible]

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

8. Designated Facility Name and Site Address

Veolia Environmental Services - Azusa, California
1704 West 1st Street
Azusa, CA 91702

Facility's Phone: [illegible]

U.S. EPA ID Number: CAD008302903

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid (soil contaminated with lead)	001	DM	200	P	611
X	2. RQ UN3266, Waste Corrosive Liquid, Basic, Inorganic, n.o.s., (Concrete rinsate mix), 8, PGIII (D002)	001	DM	15	G	122 D002
	3.					
	4.					

SENT TO DTSC
Date: [illegible]
Init: GCB

14. Special Handling Instructions and Additional Information

9b1 506903 SOIL ERG N/A
9b2 506917 BLI ERG 154
WEAR LEVEL D PPE/GLOVES, GOGGLES, SPLASH PROTECTION IF LIQUID PRESENT
WR 1631

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	Signature	Month	Day	Year
Brian Sanchez as agent for CEMC	[signature] as agent for CEMC	01	20	14

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

17. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	STEVEN E. MENDOZA	[signature]	01	20	14
Transporter 2					

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.

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 — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

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: C A R 0 0 0 2 4 2 0 7 3
2. Page 1 of 1
3. Emergency Response Phone: 1-800-424-9300
4. Manifest Tracking Number: 009580669 JJK

5. Generator's Name and Mailing Address:
Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
877 386-6044
Generator's Phone:

Generator's Site Address (if different than mailing address):
3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Seiglitz — U.S. EPA ID Number: C A R 0 0 0 1 8 3 9 1 3

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

8. Designated Facility Name and Site Address:
Clean Harbors Chemical Services - Azusa, California
1704 West 1st Street
Azusa CA 91702
Facility's Phone: 626-334-5117
U.S. EPA ID Number: C A D 0 0 8 3 0 2 9 0 3

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non RCRA Hazardous Waste Solid (Soil Contaminated with lead)	001	DM	250	P	611
X	2. RQ, Waste Corrosive liquid, basic, inorganic, n.o.s. (Concrete rinsate mix), 8, PGIII. (D002) (initialed 1/31/14)	001	DM	040	G	122 D002
	3.					
	4.					

SENT TO DTSC
Date: 1/31/14
Init: CMS

14. Special Handling Instructions and Additional Information
9b1 506903 Soil ERG N/A — WEAR LEVEL D PPE/GLOVES, GOGGLES, SPLASH PROTECTION IF LIQUID PRESENT
9b2 506917 - BLI ERG 154 — WR#631

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: Bryan Santor (as agent for Chevron EMC) — Signature: [signature] — Month 01 Day 29 Year 14

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: Steven E. Mendoza — Signature: [signature] — Month 01 Day 29 Year 14
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.

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 — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

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
	CAR000054073	1	1-800-424-9300	009580668 JJK

GENERATOR

5. Generator's Name and Mailing Address
Former Unocal 371572
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
Generator's Phone: 877 386-6044

Generator's Site Address (if different than mailing address)
3645 San Pablo Avenue
Emeryville, CA 94608-3901

6. Transporter 1 Company Name: Belshire — U.S. EPA ID Number: CAR000183913

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

8. Designated Facility Name and Site Address
Veolia Environmental Services - Azusa, California
1704 West 1st Street
Azusa, CA 91702
Facility's Phone: 626-334-5117
U.S. EPA ID Number: CAD008302903

	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
1.		Non-RCRA Hazardous Waste Solid (soil contaminated with lead)	001	DM	115	P	611		
2.	X	~~UN3266, Waste Corrosive Liquid, Basic, Inorganic, n.o.s., (Concrete rinsate mix), 8, III~~ PGIII					~~322~~	D002	
3.									
4.									

SENT TO DTSC
Date: 1/28/14
Init: CJG

14. Special Handling Instructions and Additional Information
9b1 506903 Soil ERG N/A — WEAR LEVEL D PPE/GLOVES, GOGGLES, SPLASH PROTECTION IF LIQUIDS PRESENT
~~9b2 506917 Soil ERG 151~~ WR 1631
135 1/28/14

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: BRIAN SANDE — Signature: [signature] — Month: 01 — Day: 28 — Year: 14

INTL

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STEVEN E. MENDOZA — Signature: [signature] — Month: 01 — Day: 28 — Year: 14

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

DESIGNATED FACILITY

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.

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 — Signature — Month — Day — Year

VEOLIA
ENVIRONMENTAL SERVICES

WASTESTREAM INFORMATION PROFILE

☐ Recertification

Disposal Code

Veolia ES LOCATION ☐ Invoice Address — **1704 West 1st Street** ADDRESS — **Azusa** CITY — **CA** ST

☐ Manifest from – blank if direct

Veolia ES TSDF requested **AZUSA** Technology requested ____ Generator No.____ **Generator EPA ID No.** CAR000242073

1. **Generator Name** Former Unocal 37 1572 **Generator State No.** N/A
   Address 3645 San Pablo Ave **State Wastestream No.** N/A
   City Emeryville **State** CA **Country** USA **ZIP** 94608
   NAICS (SIC) Code 562910 **Source** ____ **Origin** ____ **Form** ____ **System Type** ____

2. **Waste Name** Soil contaminated with lead, Non-RCRA hazardous **Lab or Waste Area**____

3. **Process Generating Waste** Investigation or remediation of past contamination associated with UST Corrective Action 40 CFR Part 280

4. **Shipping Name** Non RCRA Hazardous Waste Solid (Soil with Lead)

Hazard Class **UN/NA No.** **PG** **RQ amt** 0 lb

RQ Desc:	1. N/A	2.
DOT Desc:	1.	2.

5. **Waste Codes** ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Wastewater ☐ **Non Wastewater** ☐ **Sub Category** ____

6. **Physical and chemical properties** *(check all that apply)*

pH
- a ☐ < 2
- b ☐ 2 - 5
- c ☐ 5 - 9
- d ☐ 9 - 12.5
- e ☐ > 12.5

N/A solid exact

Specific Gravity
- a ☐ < .8
- b ☐ .8 - 1.0
- c ☐ 1.0
- d ☐ 1.0 - 1.2
- e ☐ > 1.2

Solid exact

Flash Point (F)
- a ☐ < 80
- b ☐ 80 - 100
- c ☐ 101 - 140
- d ☐ 141 - 200
- e ☐ > 200
- f ☒ no flash ____exact

Solids
- ____ % suspended
- 100 % settleable
- ____ % dissolved

Free Liquid Range ____ to ____ %

- unk % ash
- ____ water solubility
- <2 000 BTU/lb

Physical State
- s ☒ solid
- m ☐ semi-solid
- l ☐ liquid
- p ☐ pumpable semi-solid
- f ☐ flowable powder
- g ☐ gas
- a ☐ acrosol
- r ☐ pressurized liquid
- d ☐ debris per 40 CFR 268.45
- h ☐ sharps

Hazardous Characteristics
- a ☐ air reactive
- w ☐ water reactive
- c ☐ cyanide reactive
- f ☐ sulfide reactive
- e ☐ explosive
- o ☐ oxidizing acid
- p ☐ peroxide former
- r ☐ radioactive or NRC regulated
- s ☐ shock sensitive
- t ☐ temp sensitive
- m ☐ polymerization/monomer
- n ☐ OSHA carcinogen
- I ☐ infectious
- h ☐ inhalation hazard Zone: ____

Odor
- a none ☒
- b mild ☐
- c strong ☐

describe____

Halogens
- Br ____ % Bromine
- Cl ____ % Chlorine
- F ____ % Fluorine
- I ____ % Iodine

Layers: a ☐ **multilayered:** b ☐ **bi-layered:** c ☒ **single phase:**

Viscosity by Layer:	Top Layer	Second Layer	Bottom Layer
	☐ high (syrup)	☐ high (syrup)	☐ high (syrup)
	☐ medium (oil)	☐ medium (oil)	☐ medium (oil)
	☐ low (water)	☐ low (water)	☐ low (water)
	☐ solid	☐ solid	☒ solid

Color
- Varies
- ____
- ____

Used oil y/n N **HOC <1000 ppm** ☐ **or > 1000 ppm** ☐

WIP No. ____

7. **Chemical Composition** [M = Marine Pollutant, S - Severe Marine Pollutant, O = Ozone Depleting Substance, U = Underlying Hazardous Constituent, B = Benzene NESHAP, T = TRI Chemical, C = OSHA Carcinogen]

	Constituents	Range	Units		Constituents	Range	Units
	Soil	95-100	%				
	See attached spreadsheet and analytical						
	Debris	0-5	%				

Total Composition Must Equal or Exceed 100%

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
   PCB concentration _____p pm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream subject to Benzene NESHAP? Yes ☐ No ☒
    If yes, is the wastestream subject to Notification and Control Requirements? Yes ☐ No ☒
    Benzene concentration _____ ppm
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
    Volatile organic concentration, if known _____ ppmw
    CC approved analytical method ☐ Generator Knowledge ☐
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. **Container Information** (*Identify UN container marking if known*)
    Packaging: Bulk Solid ☐ Type/Size: _____ **Bulk Liquid** ☐ Type/Size: _____ **Drum** ☒ Type/Size: **DM/55 Gallons**
    Other _____
    Shipping Frequency: Units 2 Per Month ☐ Quarter ☐ Year ☐ One Time ☐ Other **As neede d**

15. **Additional Information**: _____

Wear Level D PPE / Gloves / Safety Goggles/Splash Protection

Please see reports 213332, 214075, 217460

_____

Is analytical or an MSDS available that describes the waste? Yes ☒ No ☐ If yes, please attach.

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Robert Larsen as agent for CEMC	510-420-0700	11-1-2013
NAME (PRINT OR TYPE)	**PHONE**	**DATE**
Robert A Larsen, as agent for CEMC	SME/Conestoga-Rovers and Associates	
SIGNATURE	**TITLE**	

FACILITY NOTIFICATION

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

TSDF PROCESSING USE ONLY: PPE REQUIRED No _____ Yes _____ Describe _____

WIP No. _____

VEOLIA
ENVIRONMENTAL SERVICES

WASTESTREAM INFORMATION PROFILE

☐ Recertification — Disposal Code ____

Veolia ES LOCATION: 1704 West 1st Street (ADDRESS) | Azusa (CITY) | CA (ST)

☐ Invoice Address

☐ Manifest from – blank if direct

Veolia ES TSDF requested **AZUSA** Technology requested ____ Generator No.____ **Generator EPA ID No.** CAR000242073

1. **Generator Name** Former Unocal 371572 — **Generator State No.** N/A
   Address 3645 San Pablo Ave — **State Wastestream No.** N/A
   City Emeryville **State** CA **Country** USA **ZIP** 94608
   NAICS (SIC) Code 562910 **Source** ____ **Origin** ____ **Form** ____ **System Type** ____

2. **Waste Name** Corrosive liquid, basic inorganic — **Lab or Waste Area**____

3. **Process Generating Waste** Investigation or remediation of past contamination associated with UST Corrective Action 40 CFR Part 280

4. **Shipping Name** RQ, UN3266, Waste Corrosive Liquid, basic, inorganic, nos (Calcium hydroxide and calcium oxide solution), 8, PG III (D002)

Hazard Class 8 **UN/NA No.** 3266 **PG** III **RQ amt** ≥100lb

RQ Desc:	1. **D002≥100lbs**	2.
DOT Desc:	1. **Waste Corrosive Liquid, basic, inorganic**	2.

5. **Waste Codes** D002 122 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Wastewater ☐ **Non Wastewater** ☒ **Sub Category** ____

6. **Physical and chemical properties** *(check all that apply)*

pH
- a ☐ < 2
- b ☐ 2 - 5
- c ☐ 5 - 9
- d ☐ 9 - 12.5
- e ☒ > 12.5

___exact

Specific Gravity
- a ☐ < .8
- b ☐ .8 - 1.0
- c ☒ 1.0
- d ☐ 1.0 - 1.2
- e ☐ > 1.2

_____ exact

Flash Point (F)
- a ☐ < 80
- b ☐ 80 - 100
- c ☐ 101 - 140
- d ☐ 141 - 200
- e ☒ > 200
- f ☐ no flash _____exact

Solids
- 0-5 % suspended
- 0-5 % settleable
- 0-5 % dissolved

unk % ash
_____ water solubility
<2 000 BTU/lb

Free Liquid Range 95 to 100 %

Physical State
- s ☐ solid
- m ☐ semi-solid
- l ☒ liquid
- p ☐ pumpable semi-solid
- f ☐ flowable powder
- g ☐ gas
- a ☐ aerosol
- r ☐ pressurized liquid
- d ☐ debris per 40 CFR 268.45
- h ☐ sharps

Hazardous Characteristics
- a ☐ air reactive
- w ☐ water reactive
- c ☐ cyanide reactive
- f ☐ sulfide reactive
- e ☐ explosive
- o ☐ oxidizing acid
- p ☐ peroxide former
- r ☐ radioactive or NRC regulated
- s ☐ shock sensitive
- t ☐ temp sensitive
- m ☐ polymerization/monomer
- n ☐ OSHA carcinogen
- I ☐ infectious
- h ☐ inhalation hazard Zone: _

Odor
- a none ☒
- b mild ☐
- c strong ☐

describe_____

Halogens
- Br _____ % Bromine
- Cl _____ % Chlorine
- F _____ % Fluorine
- I _____ % Iodine

Layers: a ☐ **multilayered:** b ☒ **bi-layered:** c ☐ **single phase:**

Viscosity by Layer:	Top Layer	Second Layer	Bottom Layer
	☐ high (syrup)	☐ high (syrup)	☐ high (syrup)
	☐ medium (oil)	☐ medium (oil)	☐ medium (oil)
	☒ low (water)	☒ low (water)	☐ low (water)
	☐ solid	☐ solid	☒ solid

Color
Varies
_____
_____

Used oil y/n N **HOC** <1000 ppm ☐ or > 1000 ppm ☐

WIP No. _____

7. **Chemical Composition** [M = Marine Pollutant, S - Severe Marine Pollutant, O = Ozone Depleting Substance, U = Underlying Hazardous Constituent, B = Benzene NESHAP, T = TRI Chemical, C = OSHA Carcinogen]

	Constituents	Range	Units		Constituents	Range	Units
	Water	95-100	%				
	Sediment (Portland Cement)	0-5	%				
	Calcium Hydroxide	Trace					
	Calcium Oxide	Trace					

Total Composition Must Equal or Exceed 100%

Other:

8. Is the wastestream being imported into the USA? Yes ☐ No ☒
9. Does the wastestream contain PCBs regulated by 40CFR? Yes ☐ No ☒
   PCB concentration _____p pm
10. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒
11. Is the wastestream subject to Benzene NESHAP? Yes ☐ No ☒
    If yes, is the wastestream subject to Notification and Control Requirements? Yes ☐ No ☒
    Benzene concentration _____ ppm
12. Is the wastestream subject to RCRA subpart CC controls? Yes ☐ No ☒
    Volatile organic concentration, if known _____ ppmw
    CC approved analytical method ☐ Generator Knowledge ☐
13. Is the wastestream from a CERCLA or state mandated cleanup? Yes ☒ No ☐

14. **Container Information** (*Identify UN container marking if known*)
    Packaging: **Bulk Solid** ☐ Type/Size: _____ **Bulk Liquid** ☐ Type/Size: _____ **Drum** ☒ Type/Size: **DM/55 Gallons**
    Other _____
    Shipping Frequency: Units 1 Per Month ☐ Quarter ☐ Year ☐ One Time ☐ Other **As neede d**

15. **Additional Information**: _____

Wear Level D PPE / Gloves / Safety Goggles/Splash Protection

Water used to decon grout tools

_____

Is analytical or an MSDS available that describes the waste? Yes ☒ No ☐ If yes, please attach.

GENERATOR CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize sampling of any waste shipment for purposes of recertification.

Robert Larsen as agent for CEMC	510-420-0700	11·1·2013
NAME (PRINT OR TYPE)	**PHONE**	**DATE**
Robert C Larsen, as agent for CEMC	SME/Conestoga-Rovers and Associates	
SIGNATURE	**TITLE**	

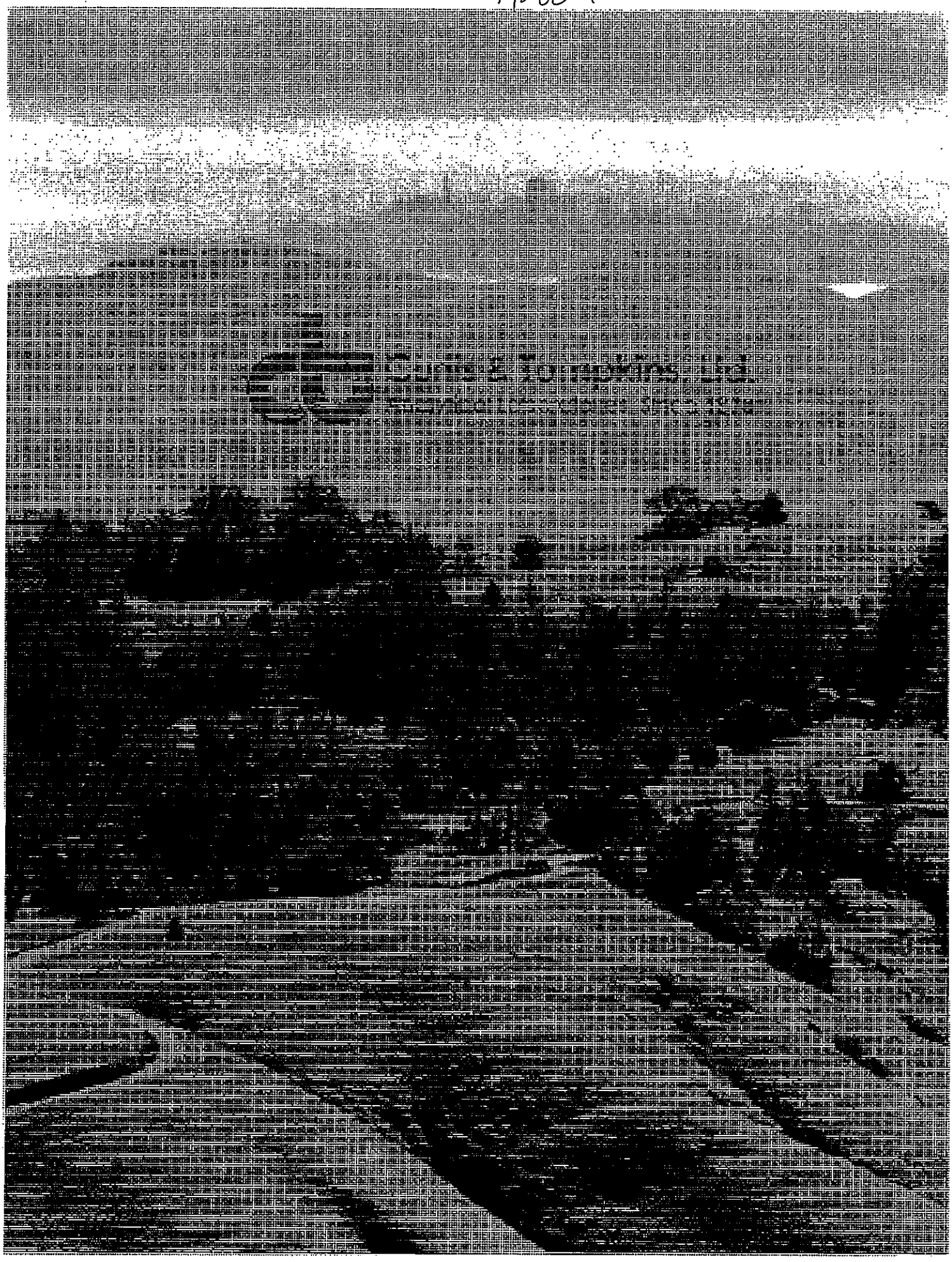
FACILITY NOTIFICATION

If approved for management, Veolia ES has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

TSDF PROCESSING USE ONLY: PPE REQUIRED No _____ Yes _____ Describe _____

WIP No. _____

7/2009



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

Laboratory Job Number 213332
ANALYTICAL REPORT

Northgate Environmental Management
300 Frank H. Ogawa Plaza
Oakland, CA 94612

Project : 1141.08
Location : Placeworks
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 / PLEASANTON

Date Opened 7/7/09 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 #:	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

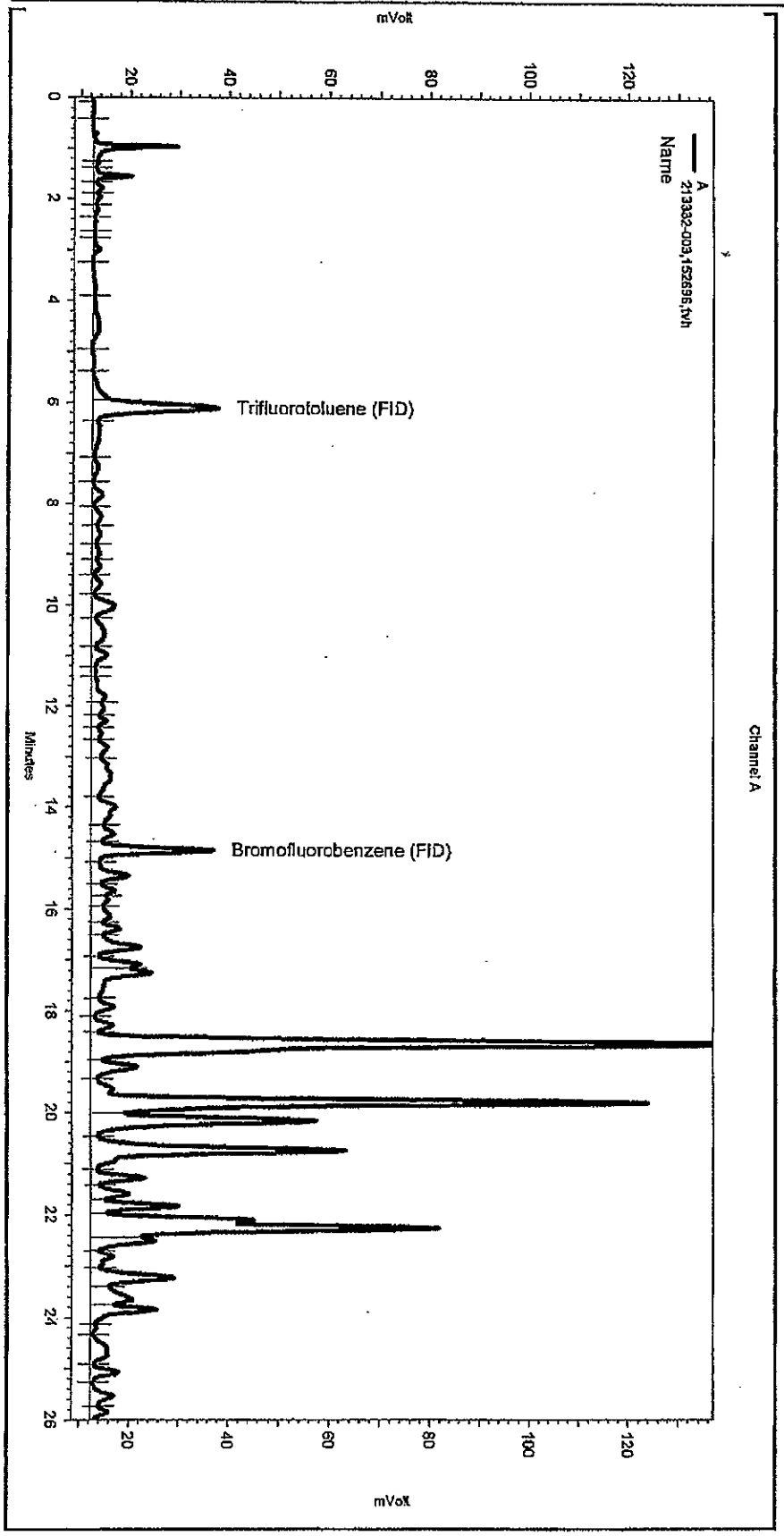
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.718	1.219	71	31-120	6	34

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



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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\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

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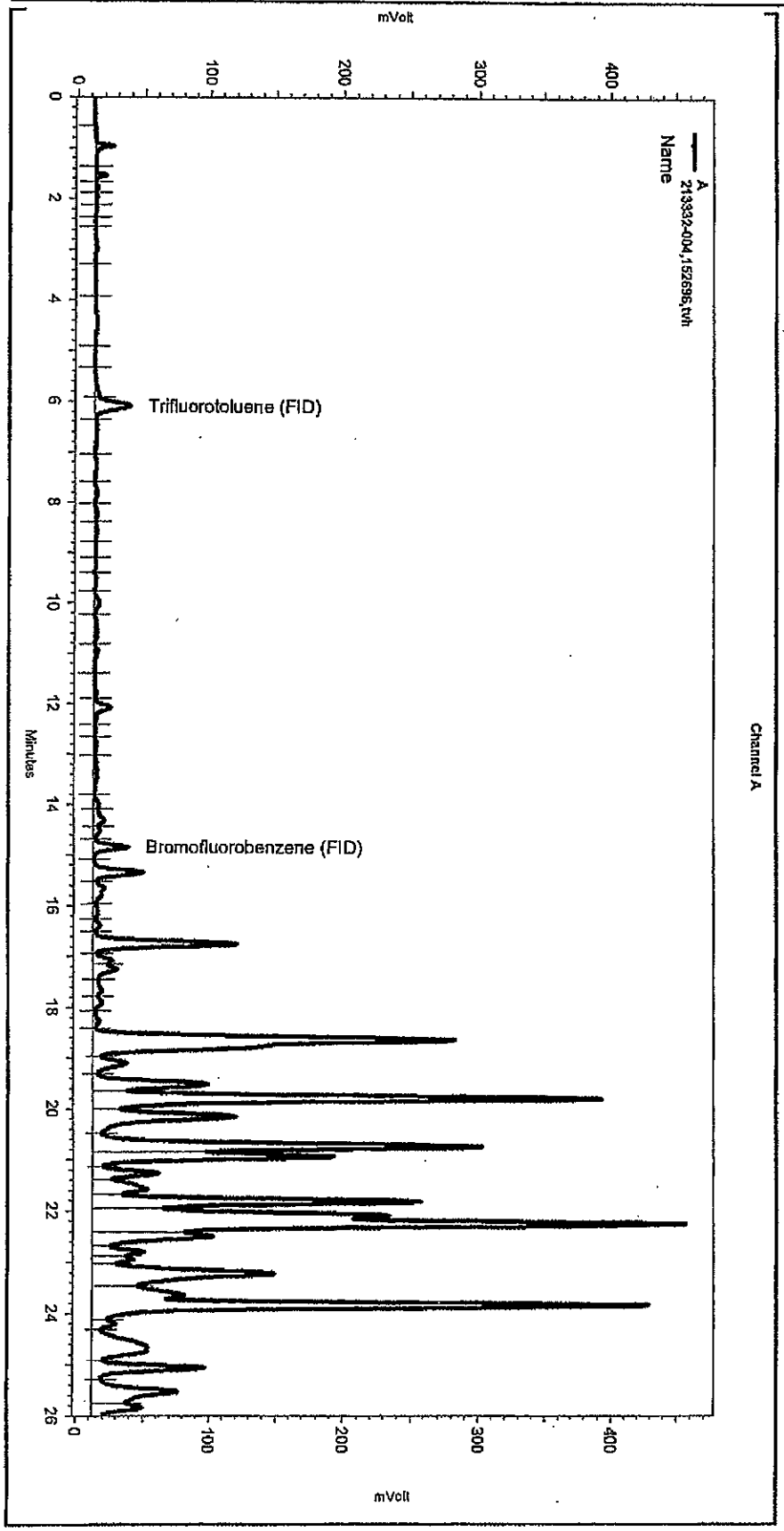
Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2 Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe188.met

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

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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

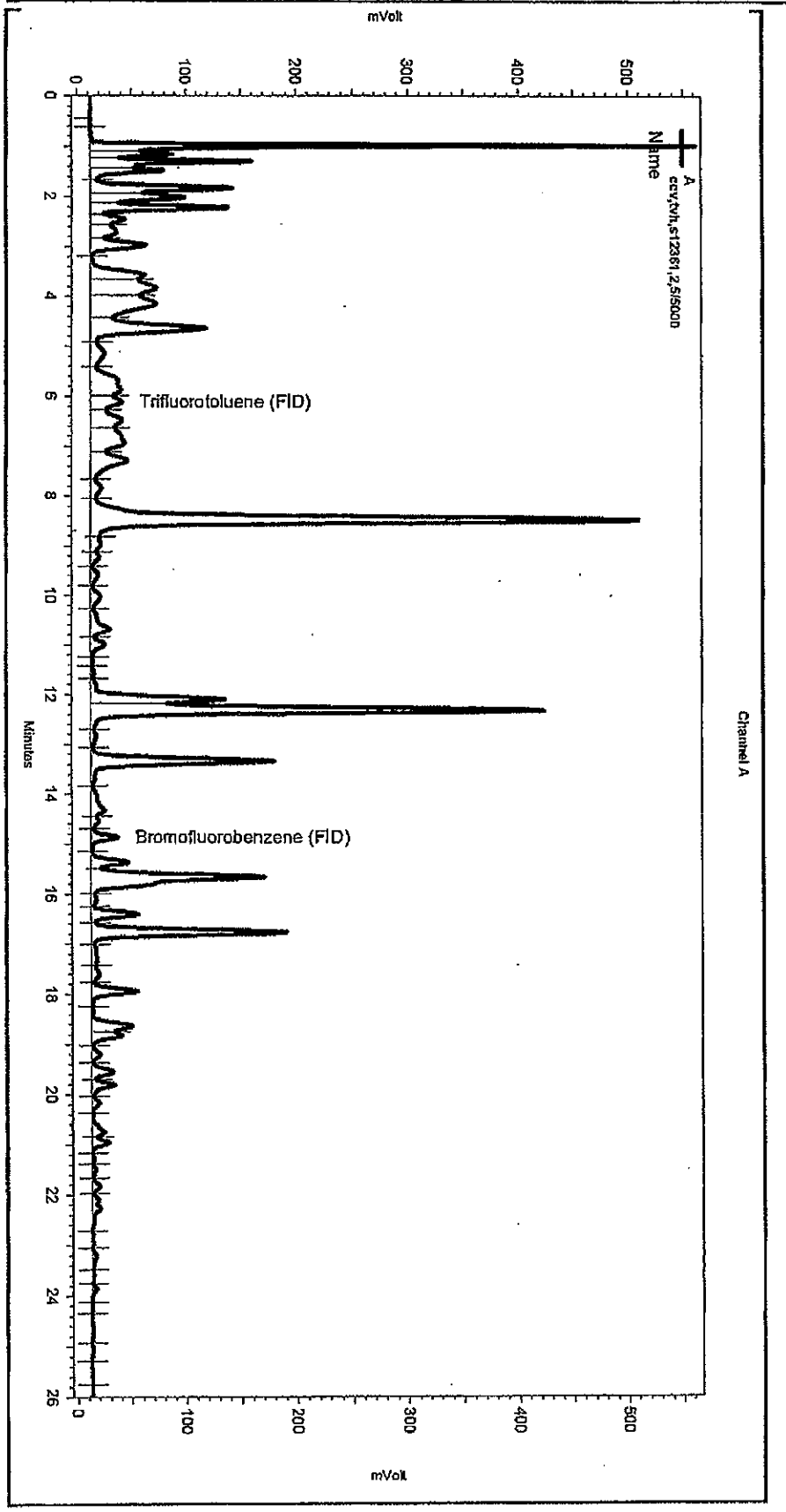
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\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 10:04:38 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\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

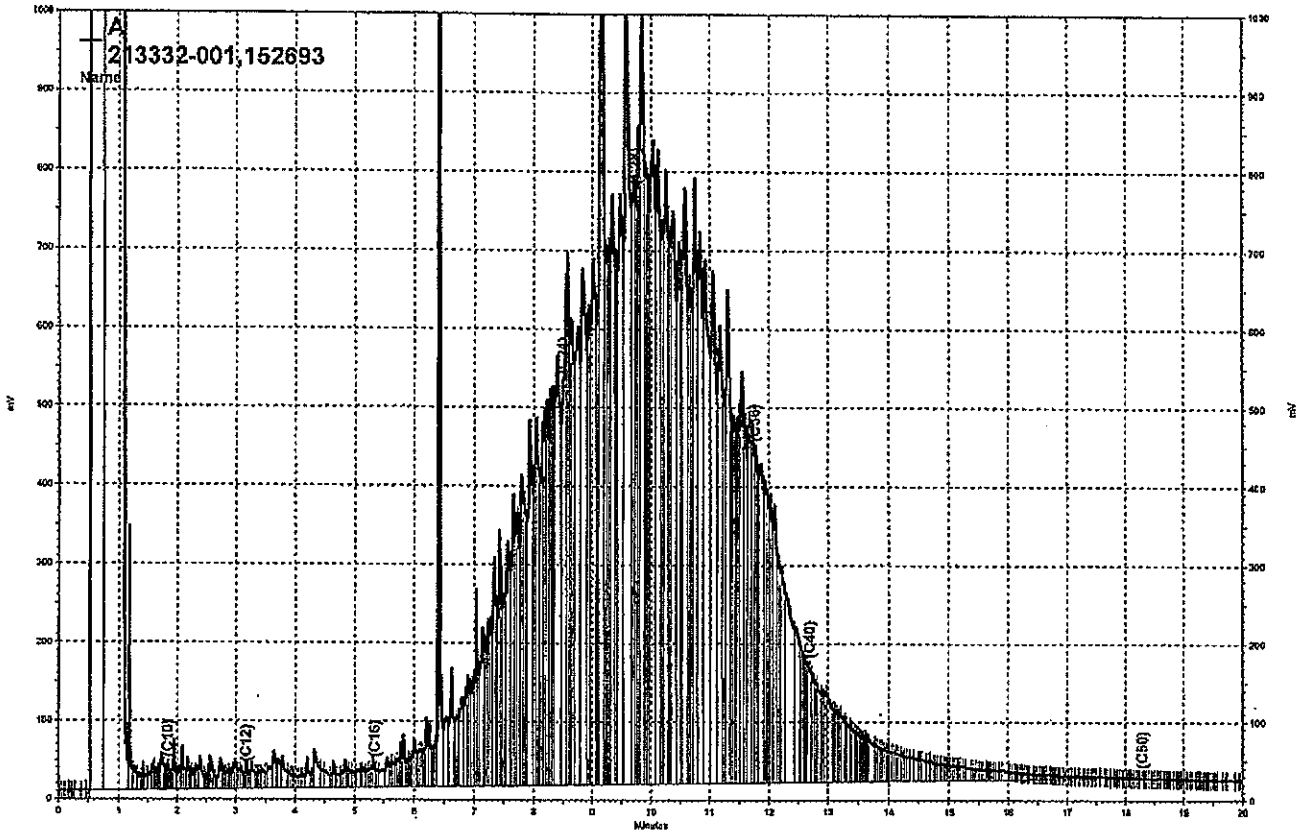
Type: MSD
Lab ID: QC502780

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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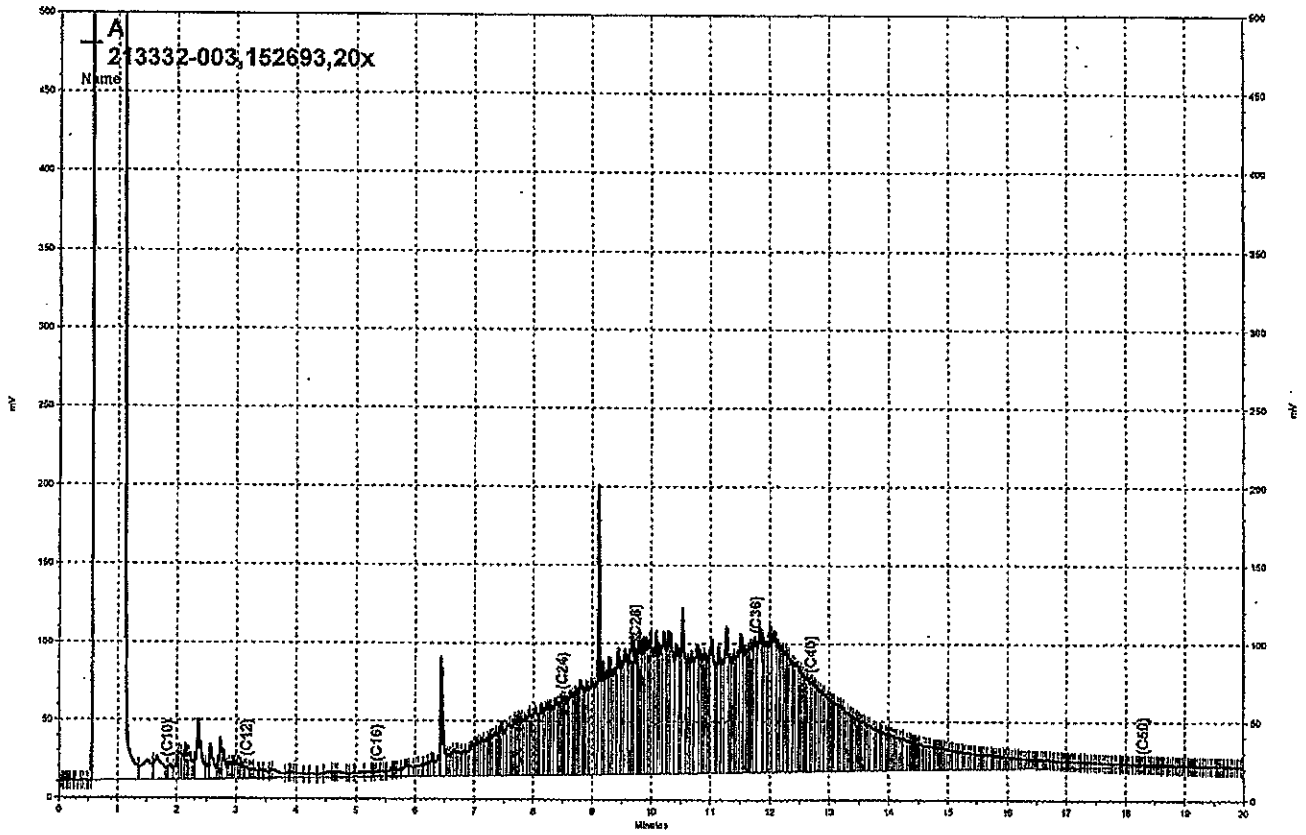

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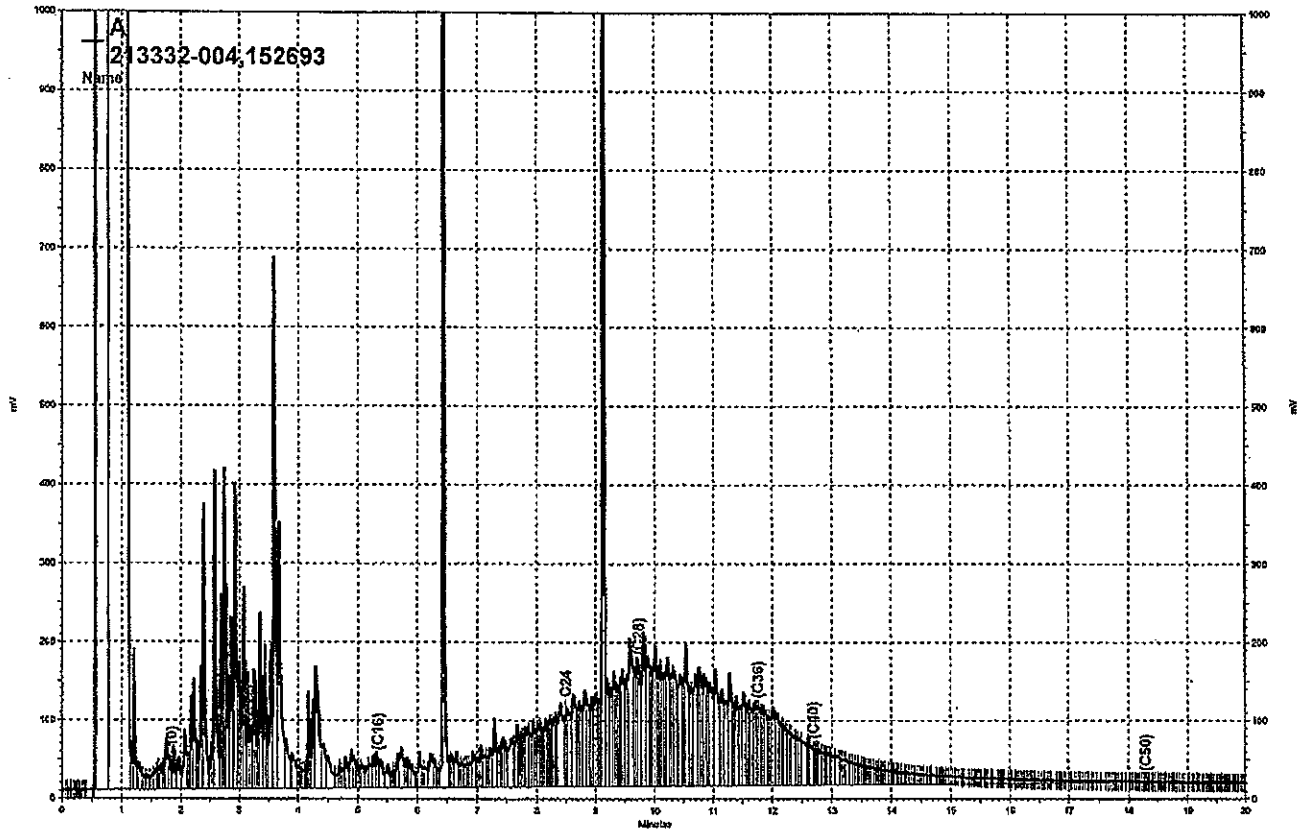

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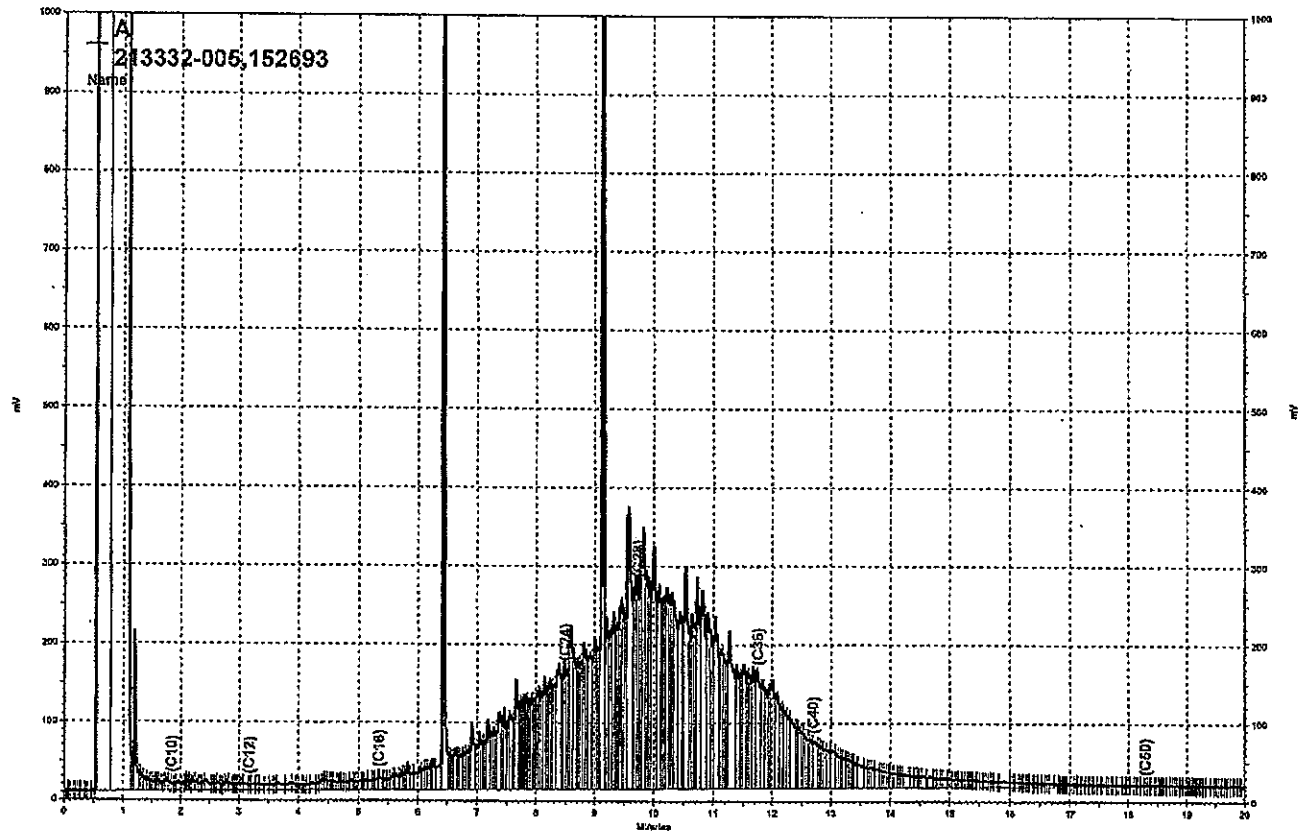

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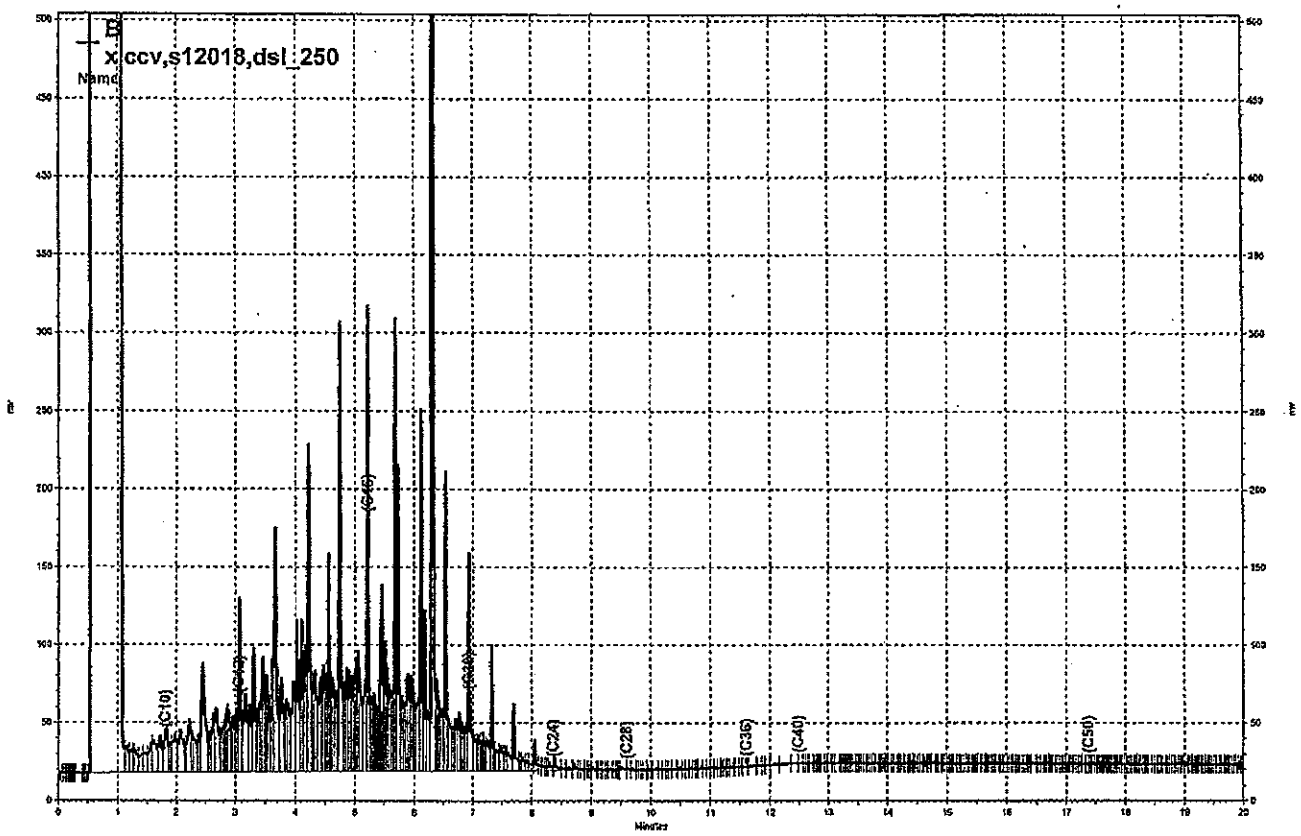

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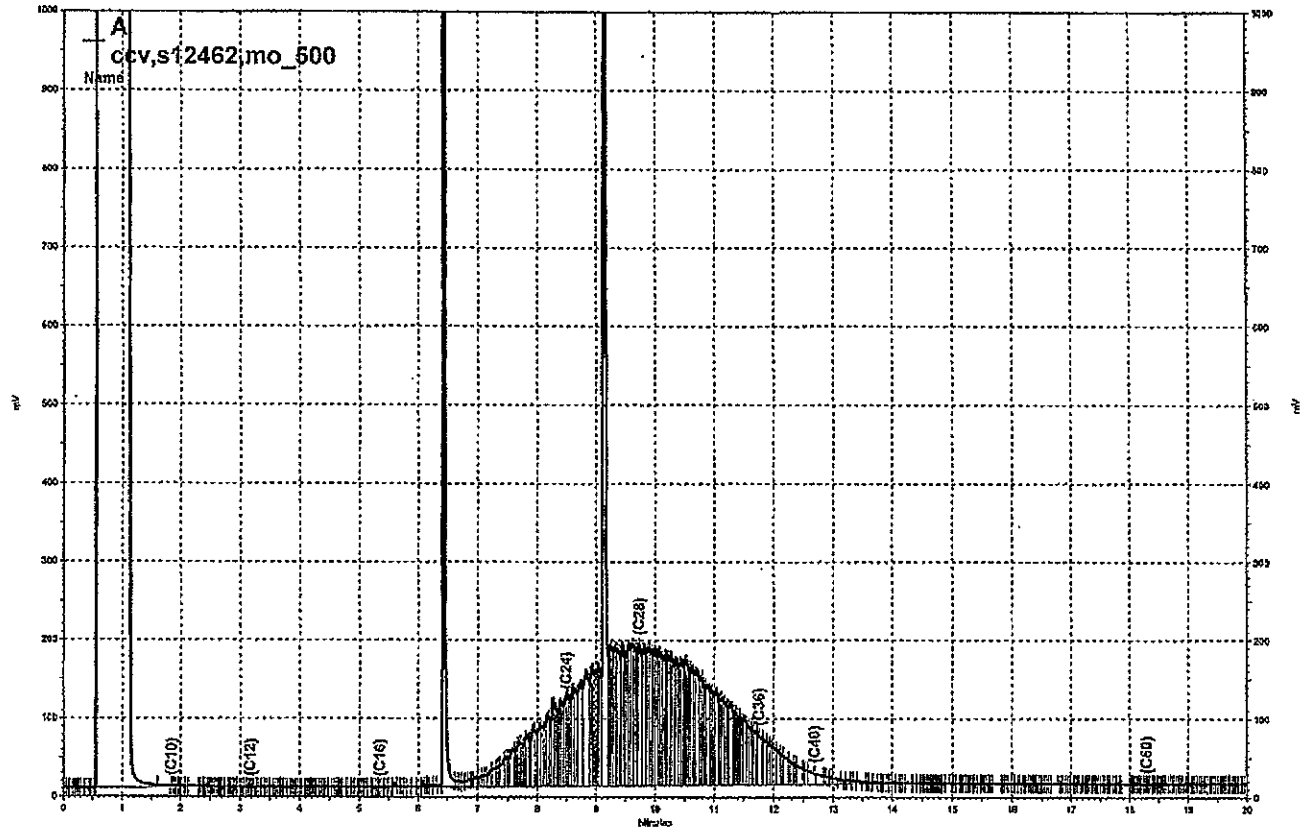

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Curtis & Tompkins, Ltd.

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

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

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

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

17.0

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

17.0

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 Title 22 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
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.

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 #: 214075

Sampler: JWO

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

Company: Northgate

Telephone: (510) 839-0688

Fax: (510) 839-4350

Project No.: 1141.08

Project Name: Placeworks

Project P.O.: 1141.08

Turnaround Time: 72-Hr

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

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☒ On ice ☐ Ambient

Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY: [signature] 8/10/09 1500 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY: Pat Haugh[signature] 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 PLATE WORKS

Date Opened 8-10-9 By (print) SEVANS (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 #:	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

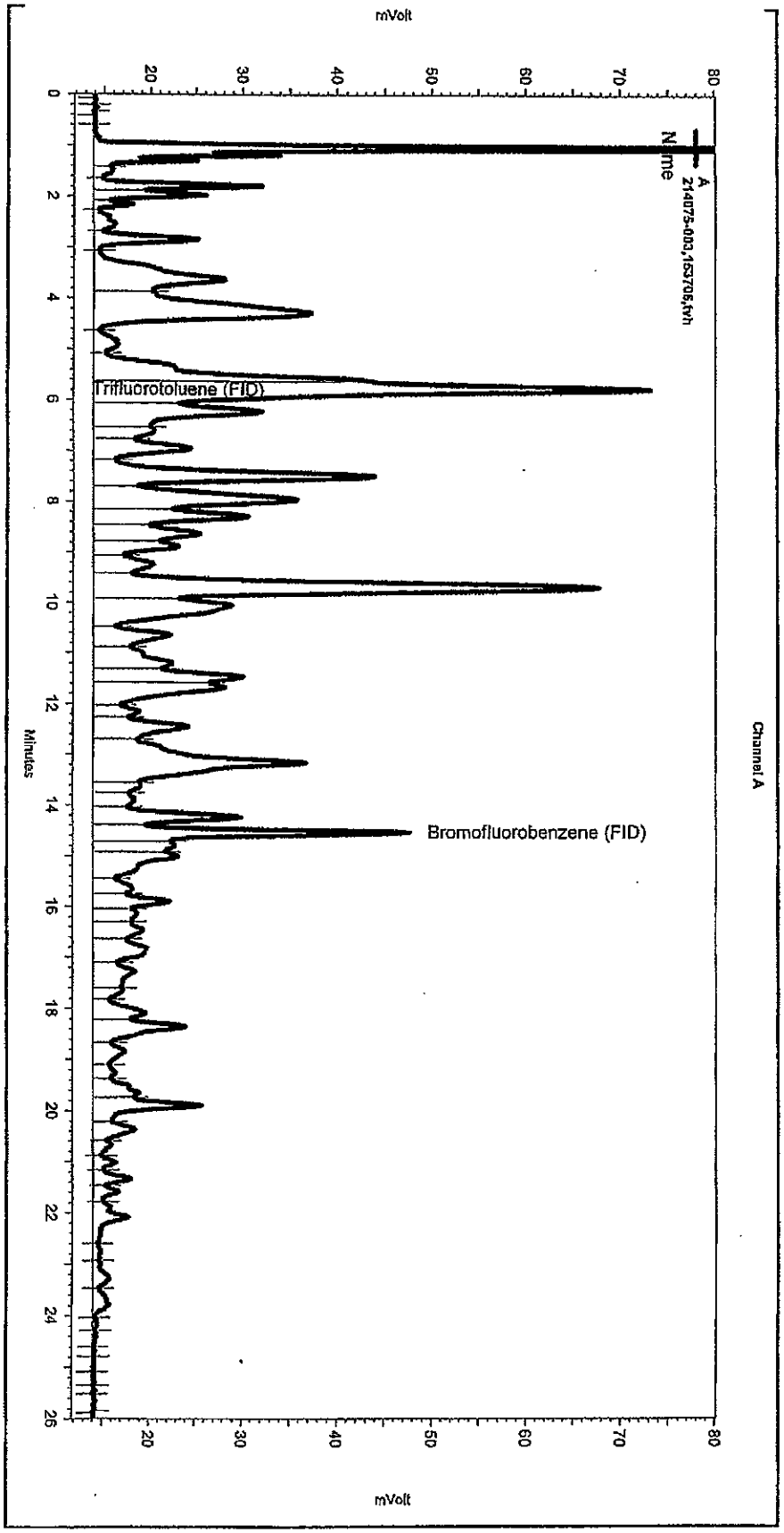
Lab #:	214075	Location:	Placeworks
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC506900	Batch#:	153706
Matrix:	Soil	Analyzed:	08/10/09
Units:	mg/Kg		

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

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\222.seq
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

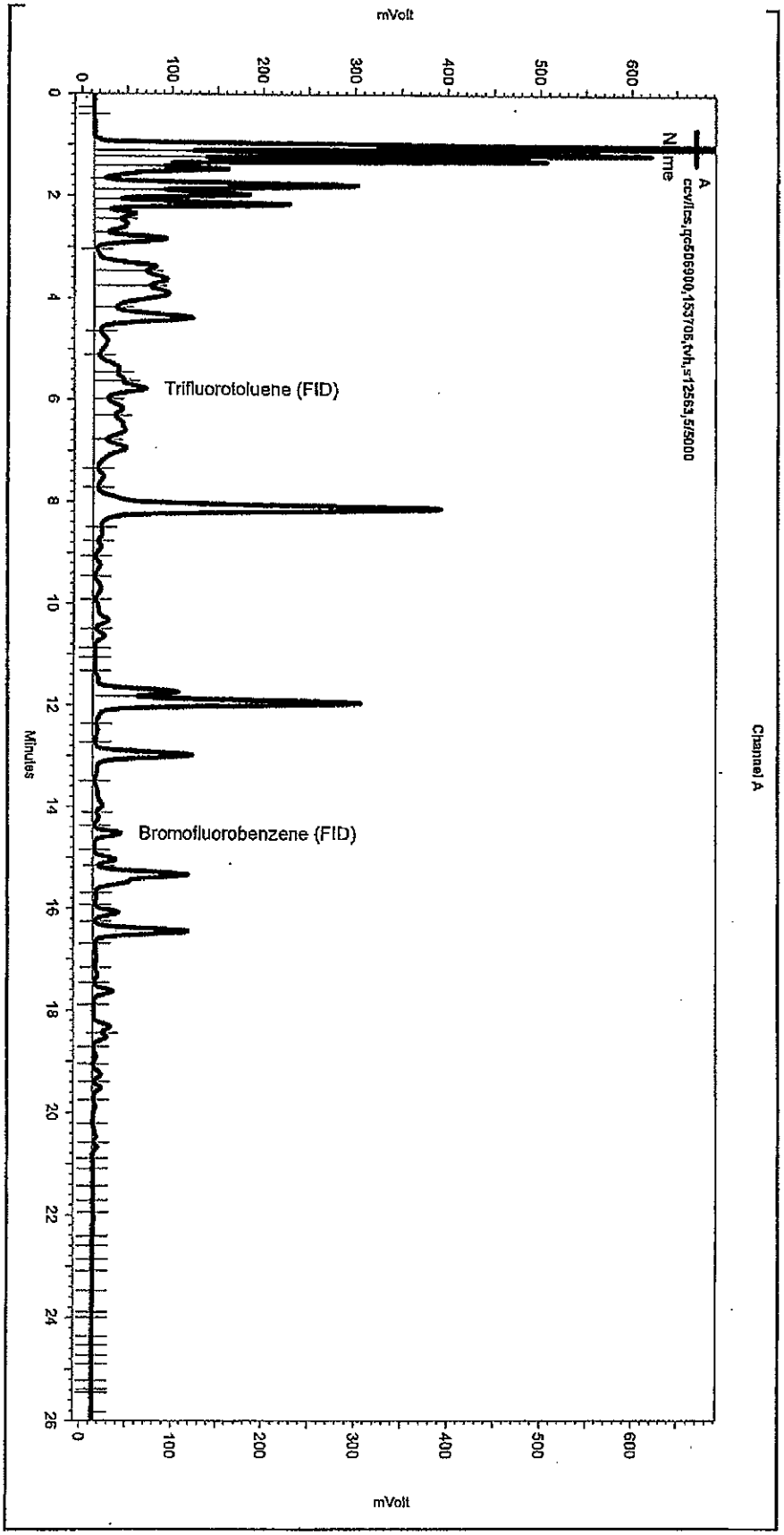
Manual Integration Fixes

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

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\222.seq
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
Run Date: 8/10/2009 3:03:58 PM
Analysis Date: 8/11/2009 10:47:35 AM
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\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
Lab ID: QC506929

Cleanup Method: EPA 3630C

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

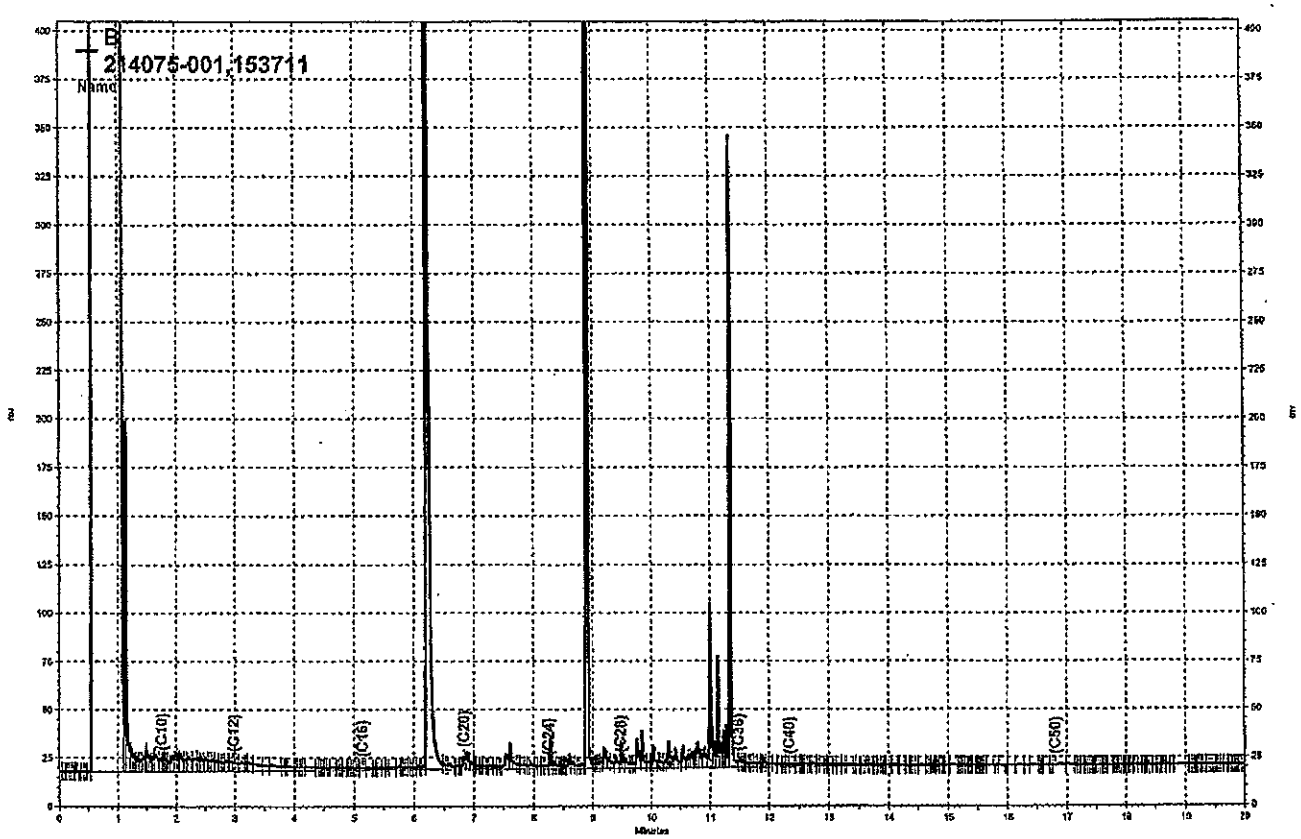
Type: MSD
Lab ID: QC506930

Cleanup Method: EPA 3630C

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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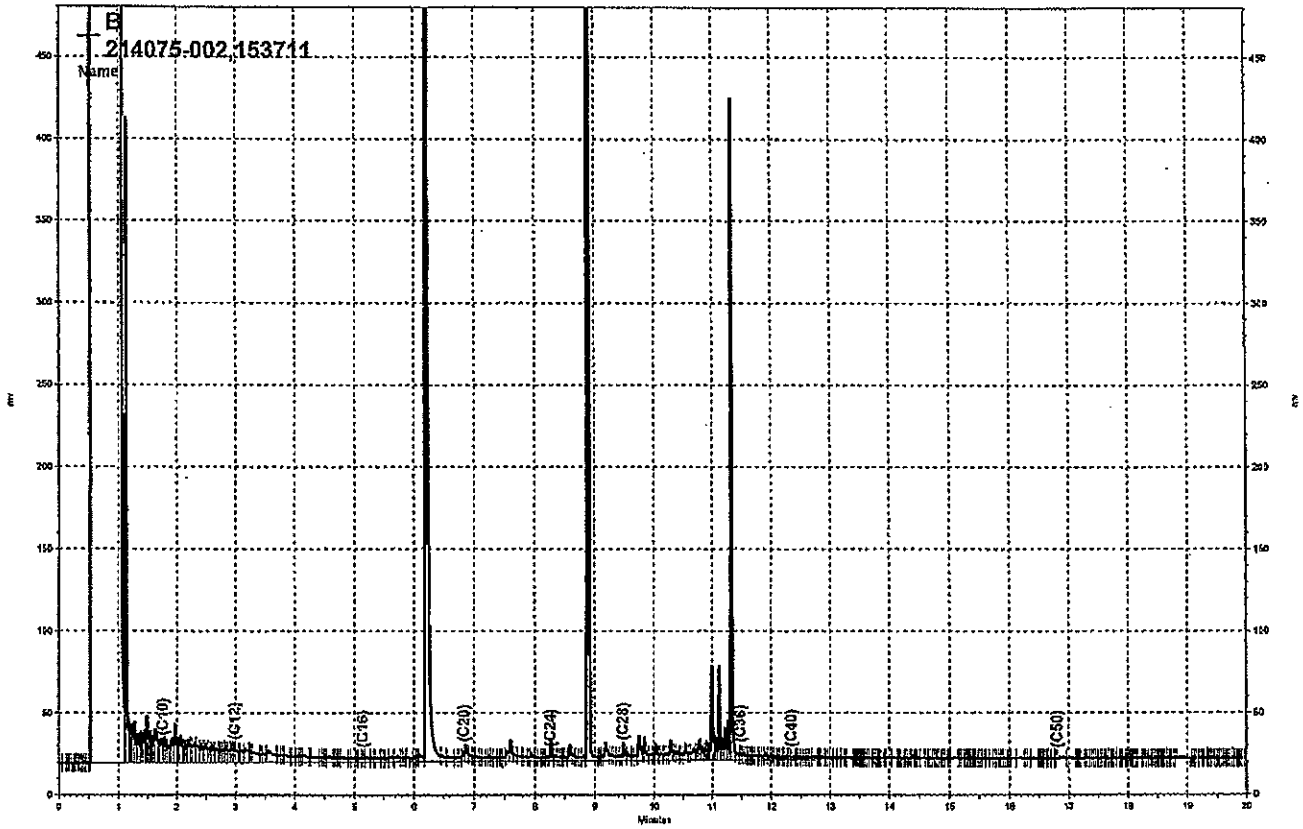

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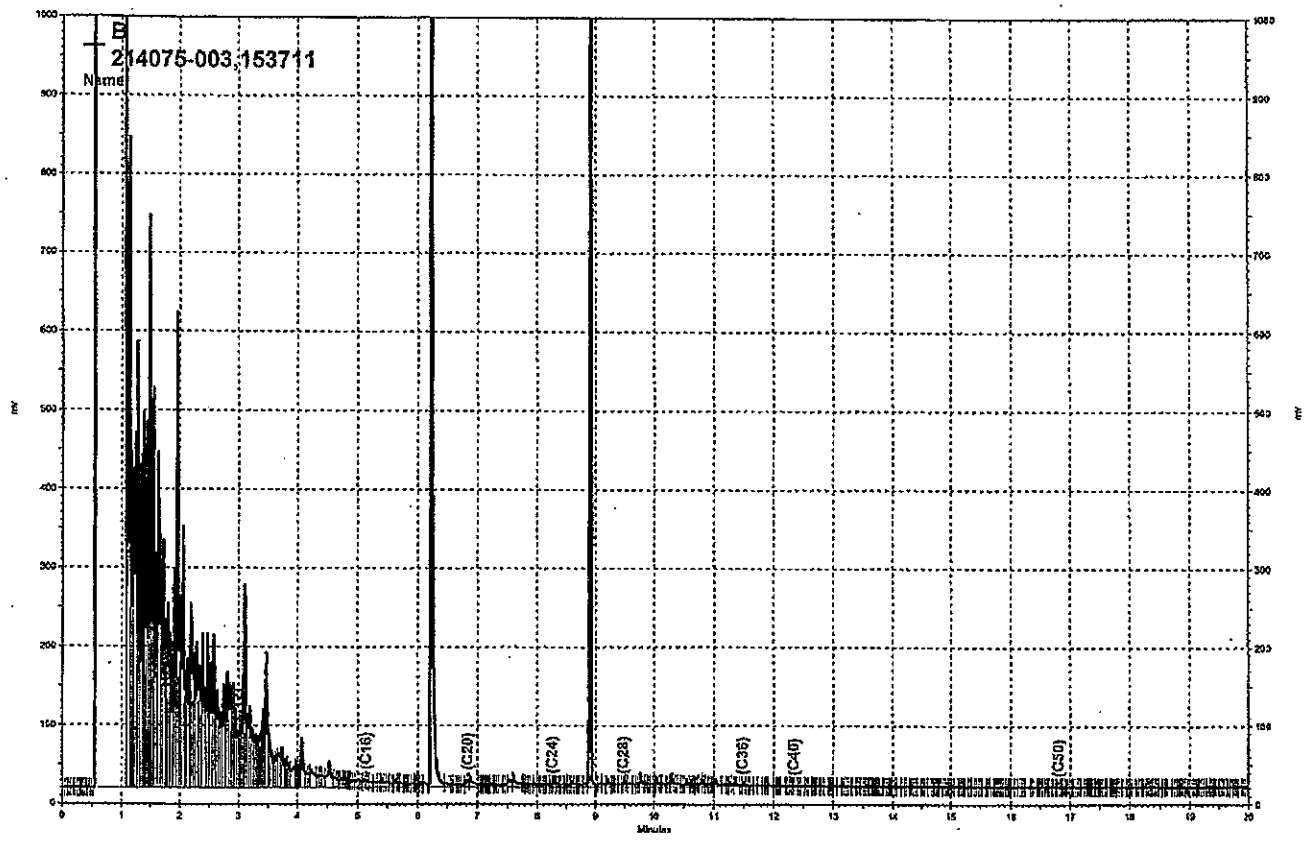

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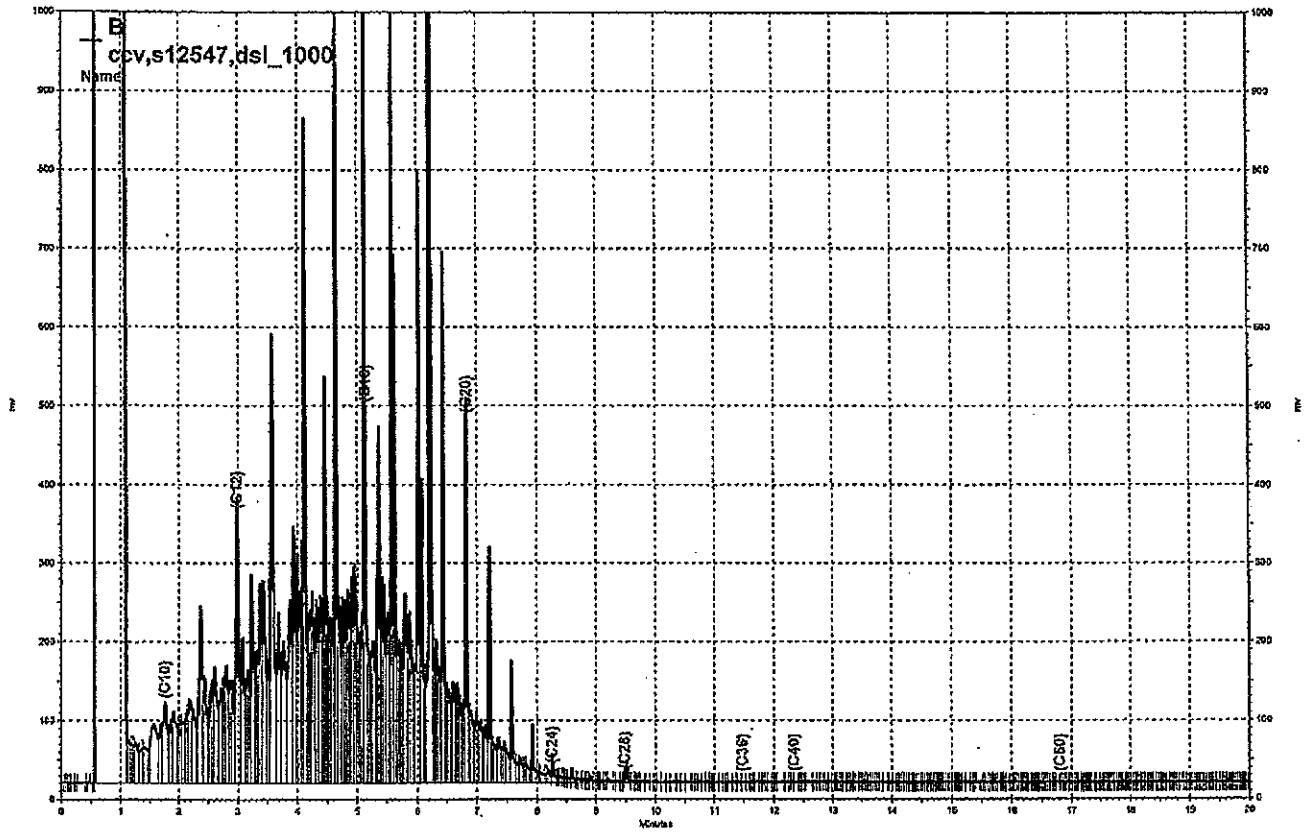

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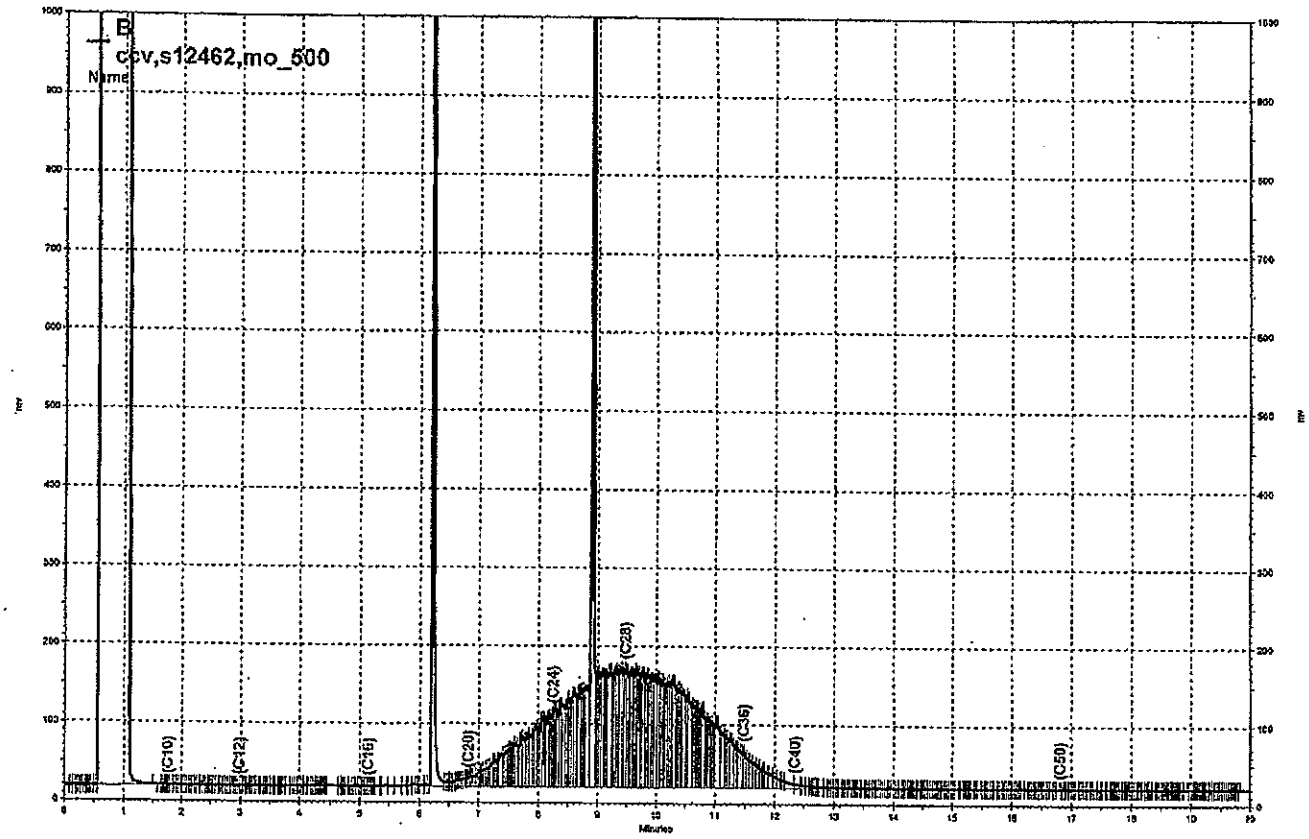

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Curtis & Tompkins, Ltd.

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

5.0

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		

Analytes	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
Lab ID: QC506916

Diln Fac: 0.9901

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
Lab ID: QC506917

Diln Fac: 0.9921

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

11.0

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
Lab ID: QC507143

Diln Fac: 1.000

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
Lab ID: QC507144

Diln Fac: 0.9901

Analyte	Spiked	Result	%REC	Limits	RPD	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 Title 22 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 DHS 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 Title 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

northgate

environmental management, inc.

January 7, 2010

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

RE: UST Soil Sampling Test Results
3645 San Pablo Avenue
Emeryville, California

Dear Mr. Rickard:

This letter summarizes the chemical test results from one soil sample collected during the in-place abandonment of an underground storage tank (UST) at 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 under construction for a new commercial building.

During the installation of the fire line main, an abandoned UST was encountered in the southwest corner of the Site. The UST is located beneath the corner of the building currently under construction on the Site. The tank was cleaned and properly abandoned in place on December 23, 2009 by Cornerstone Environmental Contractors, Inc, under permit from the Alameda County Department of Environmental Health (ACDEH). Under the direction and observation of Mr. Robert Weston of ACDEH, Northgate Environmental Management (Northgate) collected one soil sample from approximately two feet below the bottom of the abandoned UST. As requested by ACDEH, the sample was analyzed for a variety of chemical compounds as summarized below.

SOIL SAMPLING ACTIVITIES

On December 23, 2009, Northgate collected one soil sample at a depth of 5.5 – 6.0 feet below the ground surface (bgs) from a location approximately 2-feet east of the abandoned UST. The sample was collected from a hand-auger boring using a slide hammer fitted with a clean 2-inch diameter by 6-inch long brass tube. A photoionization detector (PID) was used to screen the soil for the presence of volatile compounds during sampling. A slight hydrocarbon odor was detected on the soil started at approximately 4 feet bgs. PID readings increased with depth from

4 feet to 5.5 feet bgs. The soil became moist at approximately 5.25 feet bgs. Mr. Weston requested that the soil sample be collected from 5.5 – 6.0 feet bgs. The brass tube containing the soil sample was sealed with Teflon-lined end caps, labeled, and placed on ice in a cooler for immediate transport to Curtis & Tompkins Laboratory of Berkeley, California under chain-of-custody control. The soil sample was analyzed for the following constituents in accordance with the Recommended Minimum Verification Analysis for Underground Tank Leaks, Table #2, as requested by the ACDEH:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-g), diesel (TPH-d), and oil (TPH-mo) using EPA Method 8015;
- Volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), Methyl Tert-butyl Ether (MTBE), EDB and EDC, TAME, ETBE, DIPE, TBA, and EtOH, using EPA Method 8260;
- Polychlorinated biphenyls (PCBs) using EPA Method 8020;
- Pentachlorophenol (PCP) and Polynuclear Aromatic Hydrocarbons (PNAs) using EPA Method 8270;
- 1,4-Dioxane using EPA Method 8270-SIM; and
- 5-LUFT metals using EPA Method 6010.

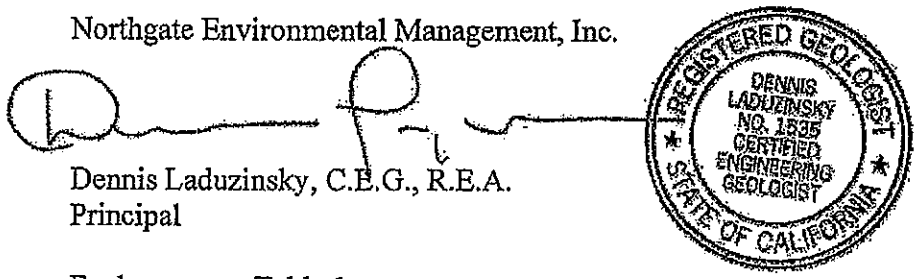
Chemical results from the soil sample analysis are presented in Table 1. We recommend that these test results be submitted to the ACDEH in accordance with the UST abandonment permit requirements.

CLOSING

We appreciate the opportunity to 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.



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

Enclosures: Table 1
Figure 1
Laboratory Analytical Report

TABLE 1
Soil Sample Analytical Results

Analyte	Units	Soil Sample Location and Depth	Environmental Screening Level (ESL)	
		UST-1-6.0	Direct Exposure	Groundwater Protection
TPH as Gasoline	mg/kg	980	450	180
TPH as Diesel	mg/kg	870*	450	180
TPH as Oil	mg/kg	3,300	3,700	ne
Volatile Organic Compounds				
Benzene	µg/kg	<770	270	2,000
Toluene	µg/kg	2,300	210,000	9,300
Ethylbenzene	µg/kg	1,500	5,000	4,700
Xylenes	µg/kg	11,400	100,000	11,000
MTBE	µg/kg	<770	65,000	ne
ETBE	µg/kg	<770	ne	ne
TAME	µg/kg	<770	ne	ne
DIPE	µg/kg	<770	ne	ne
TBA	µg/kg	<15,000	320,000,000	18,000,000
EtOH	µg/kg	<150,000	ne	ne
Propylbenzene	µg/kg	1,800	ne	ne
1,3,5-Trimethylbenzene	µg/kg	5,100	200,000**	ne
1,2,4-Trimethylbenzene	µg/kg	16,000	280,000**	ne
2-Butanone	µg/kg	<1,500	21,000	3,900
1,2-Dibromoethane (EDB)	µg/kg	<770	440	1,400,000
1,2-Dichloroethane (EDC)	µg/kg	<770	480	2,000,000
Naphthalene	µg/kg	6,300	2,800	4,800
Other VOCs	µg/kg	ND	na	na
Semi-Volatile Organic Compounds				
Naphthalene	µg/kg	3,300	2,800	4,800
2-Methylnaphthalene	µg/kg	6,100	440,000	21,000
PAH	µg/kg	ND	na	na
PCP	µg/kg	<8,100	9,000	7,900
Other SVOCs	µg/kg	ND	na	na
1,4-Dioxane	µg/kg	<41	110,000	340,000,000
Polychlorinated Biphenyls				
Arochlor-1016	µg/kg	<15	740	14
Arochlor-1221	µg/kg	<30	740	14
Arochlor-1232 - 1260	µg/kg	<15	740	14
Metals				
Cadmium	mg/kg	1.4	7.4	ne
Chromium	mg/kg	39	310,000	ne
Lead	mg/kg	84	750	ne
Nickel	mg/kg	51	3,400	ne
Zinc	mg/kg	220	61,000	ne

NOTES

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

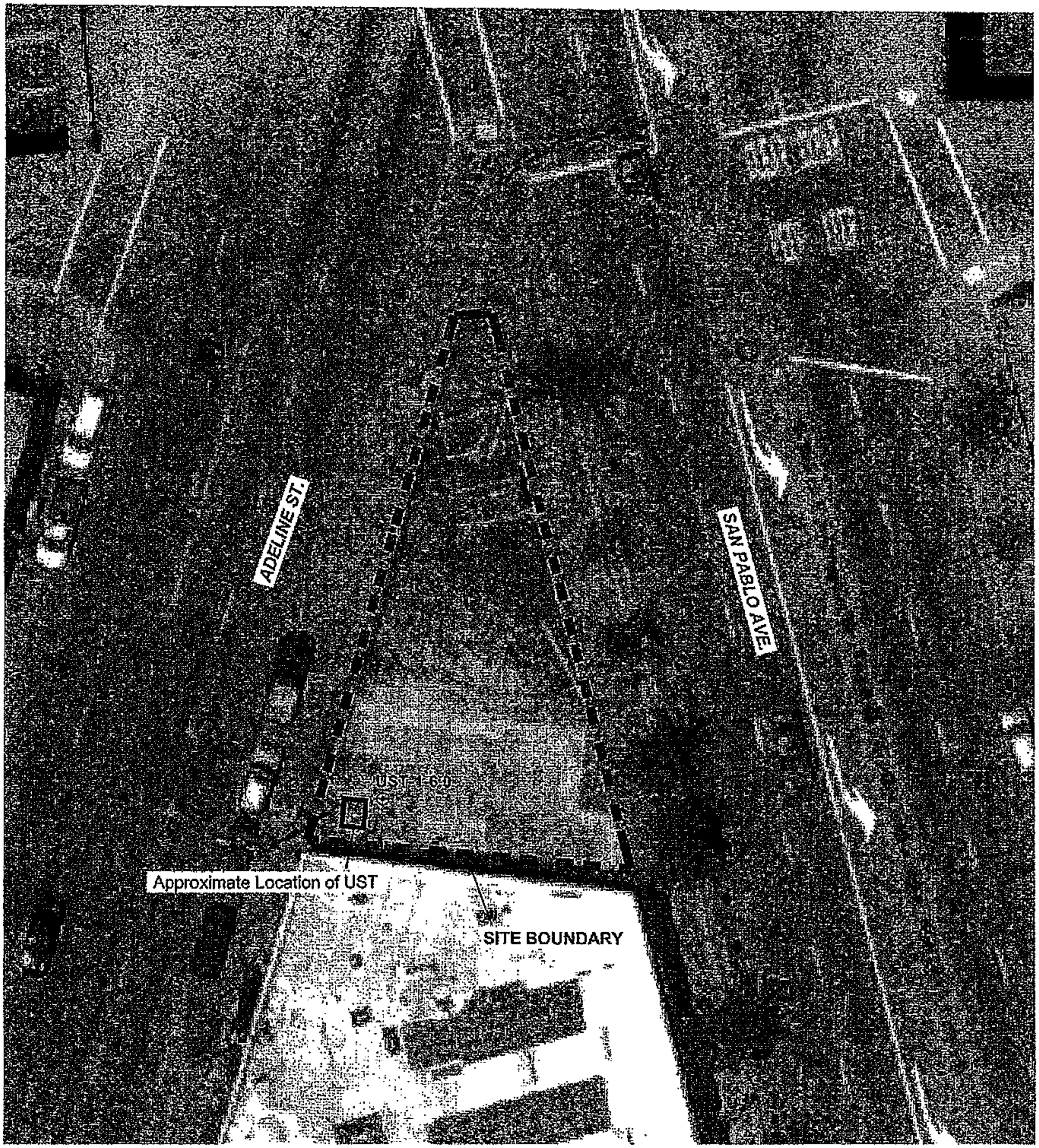
<: Not detected at or above the indicated laboratory method reporting limit

ESL: RWQCB Region 2 - Environmental Screening Levels for shallow soil (<10 feet deep)

- Commercial land use; groundwater is not a drinking water source

na: Not applicable

ne: Not established



LEGEND:

UST-1-6.0 ⊕ UST sampling location

N

0 15 30

Scale (Feet)

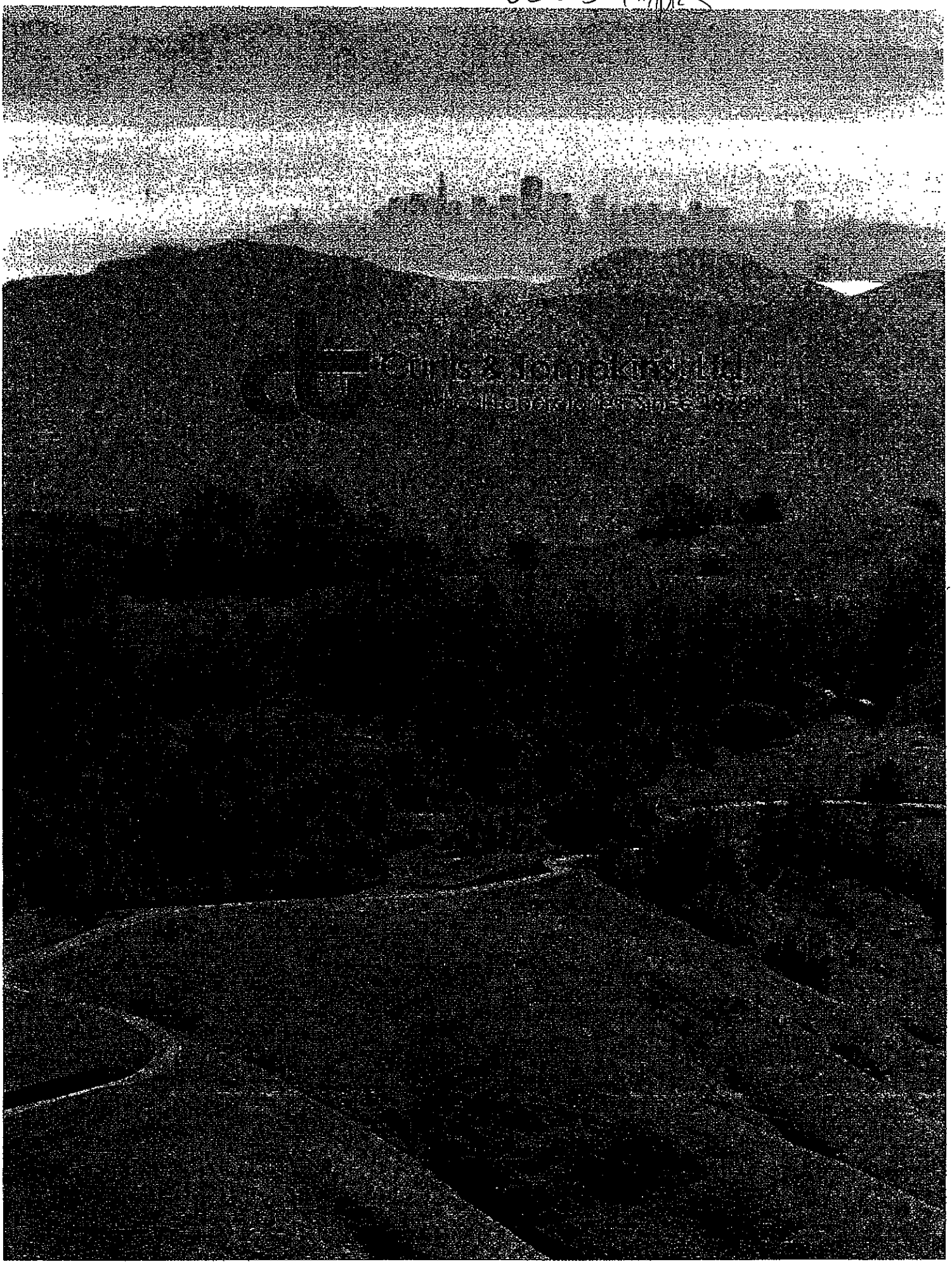
FIGURE 1
Site Plan

northgate
environmental management, inc.

UST Soil Sampling Report
3645 San Pablo Avenue
Emeryville, California

Project No. 1141.08

UST Samples



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

Laboratory Job Number 217460
ANALYTICAL REPORT

Northgate Environmental Management 300 Frank H. Ogawa Plaza Oakland, CA 94612	Project : 1141.08 Location : 3645 San Pablo Ave. Level : II

Sample ID	Lab ID
UST-1-0.6	217460-001

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 signature. 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: 01/05/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	217460
Client:	Northgate Environmental Management
Project:	1141.08
Location:	3645 San Pablo Ave.
Request Date:	12/23/09
Samples Received:	12/23/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 12/23/09. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in UST-1-0.6 (lab # 217460-001); 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):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
UST-1-0.6 (lab # 217460-001) was diluted due to high non-target analytes. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
Low recoveries were observed for 1,4-dioxane in the MS/MSD for batch 158723; the parent sample was not a project sample, and the LCS was within limits. High surrogate recoveries were observed for nitrobenzene-d5 in UST-1-0.6 (lab # 217460-001) and the MS/MSD for batch 158723. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Matrix spikes QC527173,QC527174 (batch 158633) were not reported because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

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

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

47760

northgate environmental management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Nº 001770

Project No.: 1141.08	Project Location: EMERYVILLE, CA	Date: 12/23/09	Serial No.: 1 of 1
Project Name: 3645 SAN PABLO AVE.	Field Logbook No.: DAR 12/23/09		
Sampler (Signature) [signature]			Samplers: KEVIN HULTGREN

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	VOC, BTEX, TPH-g, EDB, EDC, 8260	TPH-D, oil, grease 8015M	1,4 Dioxane 8270M	LUFT 5 metals (Cd, Cr, Pb, Ni, Zn)	PCB, PCP, PNA, creosote 8270	MTBE, TAME, ETBE, DIPE, TBA, EtOH, 8260			HOLD	RUSH	REMARKS
UST-1-0.6	12/23	1540		1	Soil	X	X	X	X	X	X					STANDARD 5-DAY TAT
																REPORT RESULTS TO: DENNIS.LADUZINSKY@NGEM.
																Please compensate FOR SATURATED SAMPLE

Relinquished by: (Signature) [signature]	Date 12/23/09	Time 1622	Received By: (Signature) [signature]	Date 12/23/09	Time 1622
Relinquished by: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Method of Shipment: DROP OFF AT LAB	Date 12/23/09	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 ATTN: MICAH SMITH

COOLER RECEIPT CHECKLIST — Curtis & Tompkins, Ltd.

Login # Z17460 Date Received 12·23 Number of coolers 1
Client North Gate Environmental Project 3645 San Pablo AVE.

Date Opened 12-23 By (print) Elias Tsadis (sign) Elias Tsadis
Date Logged in ↓ By (print) M.VILLASENOR (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~~ MV
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

ID# on sample UST-1-6.0

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	UST-1-0.6	Batch#:	158684
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	12/28/09

Type:	SAMPLE	Moisture:	19%
Lab ID:	217460-001	Diln Fac:	25.00

Analyte	Result	RL
Gasoline C7-C12	980	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	38-168
Bromofluorobenzene (FID)	232 *	27-175

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527348		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	38-168
Bromofluorobenzene (FID)	100	27-175

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527349	Batch#:	158684
Matrix:	Soil	Analyzed:	12/28/09
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.744	95	74-123

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	38-168
Bromofluorobenzene (FID)	107	27-175

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	217476-001	Batch#:	158684
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	as received	Analyzed:	12/28/09

Type: MS Lab ID: QC527350

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1622	10.42	8.416	79	14-138

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	38-168
Bromofluorobenzene (FID)	110	27-175

Type: MSD Lab ID: QC527351

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	8.518	83	14-138	4	52

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	38-168
Bromofluorobenzene (FID)	114	27-175

RPD= Relative Percent Difference

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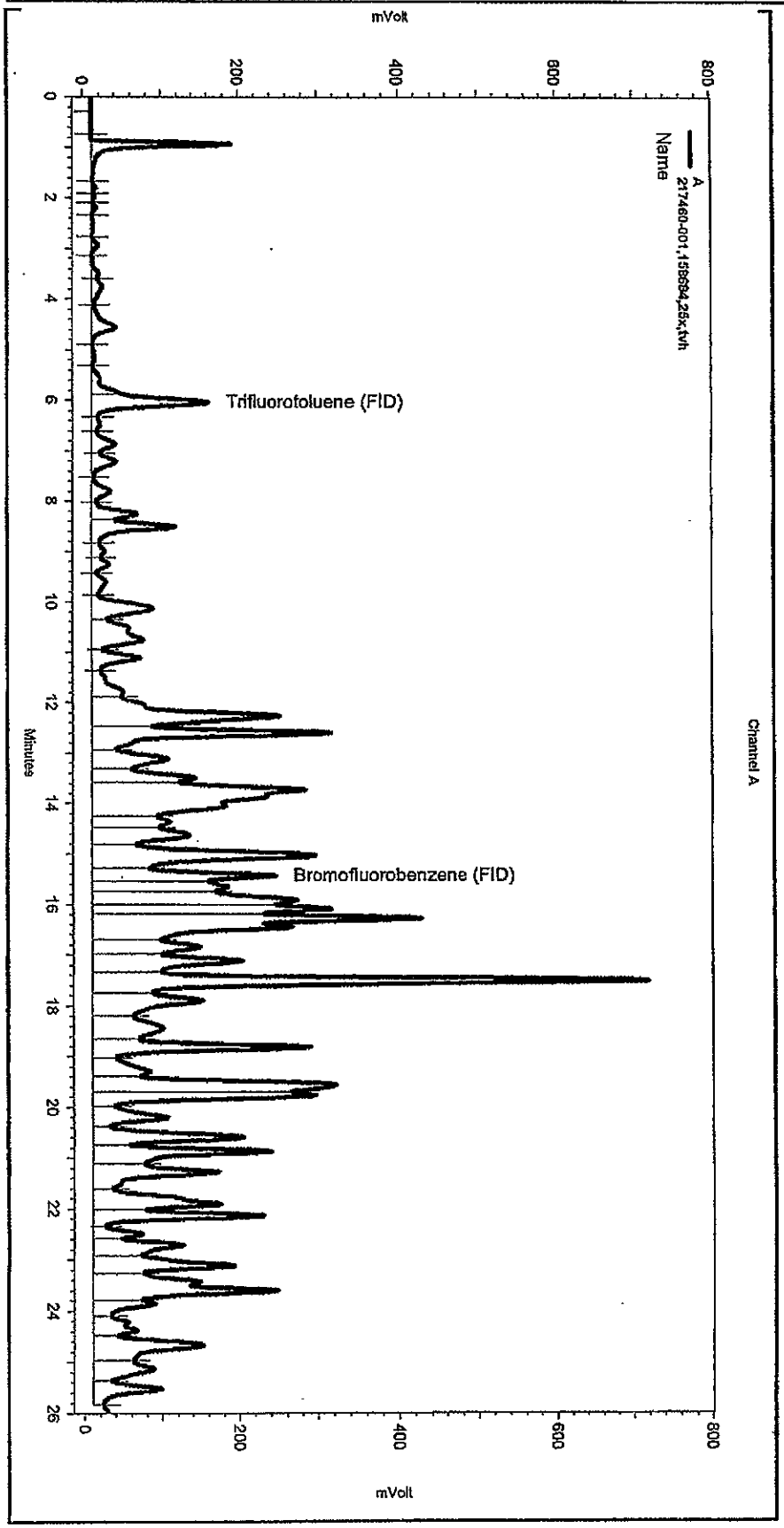
Sample Name: 217460-001,158684,25x,tvh
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\362_017
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbbxe357.met

Software Version 3.1.7
Run Date: 12/28/2009 9:57:57 PM
Analysis Date: 12/29/2009 8:52:02 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: b



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Yes	Threshold	0	0	50

Manual Integration Fixes

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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.883	0	0

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Software Version 3.1.7
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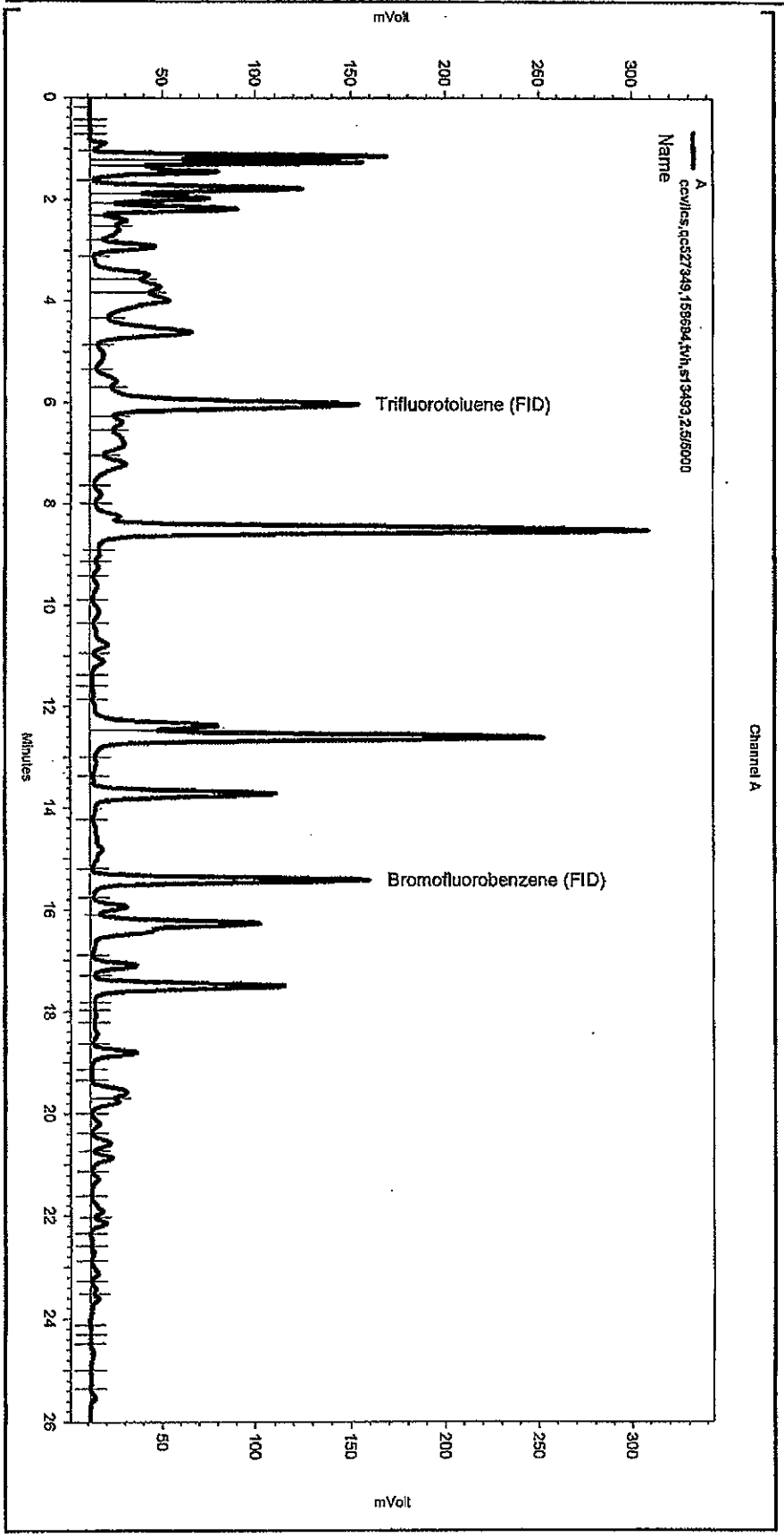
Analysis Date: 12/29/2009 8:30:55 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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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\362_008

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

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	UST-1-0.6	Batch#:	158681
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/28/09

Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	217460-001	Analyzed:	12/30/09
Moisture:	19%		

Analyte	Result	RL
Diesel C10-C24	870 Y	25
Motor Oil C24-C36	3,300	120

Surrogate	%REC	Limits
o-Terphenyl	DO	16-164

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527335	Analyzed:	12/29/09

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

Surrogate	%REC	Limits
o-Terphenyl	82	16-164

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 #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527336	Batch#:	158681
Matrix:	Soil	Prepared:	12/28/09
Units:	mg/Kg	Analyzed:	12/28/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	36.84	74	36-151

Surrogate	%REC	Limits
o-Terphenyl	82	16-164

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	158681
MSS Lab ID:	217453-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	mg/Kg	Prepared:	12/28/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type:	MS	Moisture:	18%
Lab ID:	QC527337	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	15.57	121.8	54.27	32	3-174

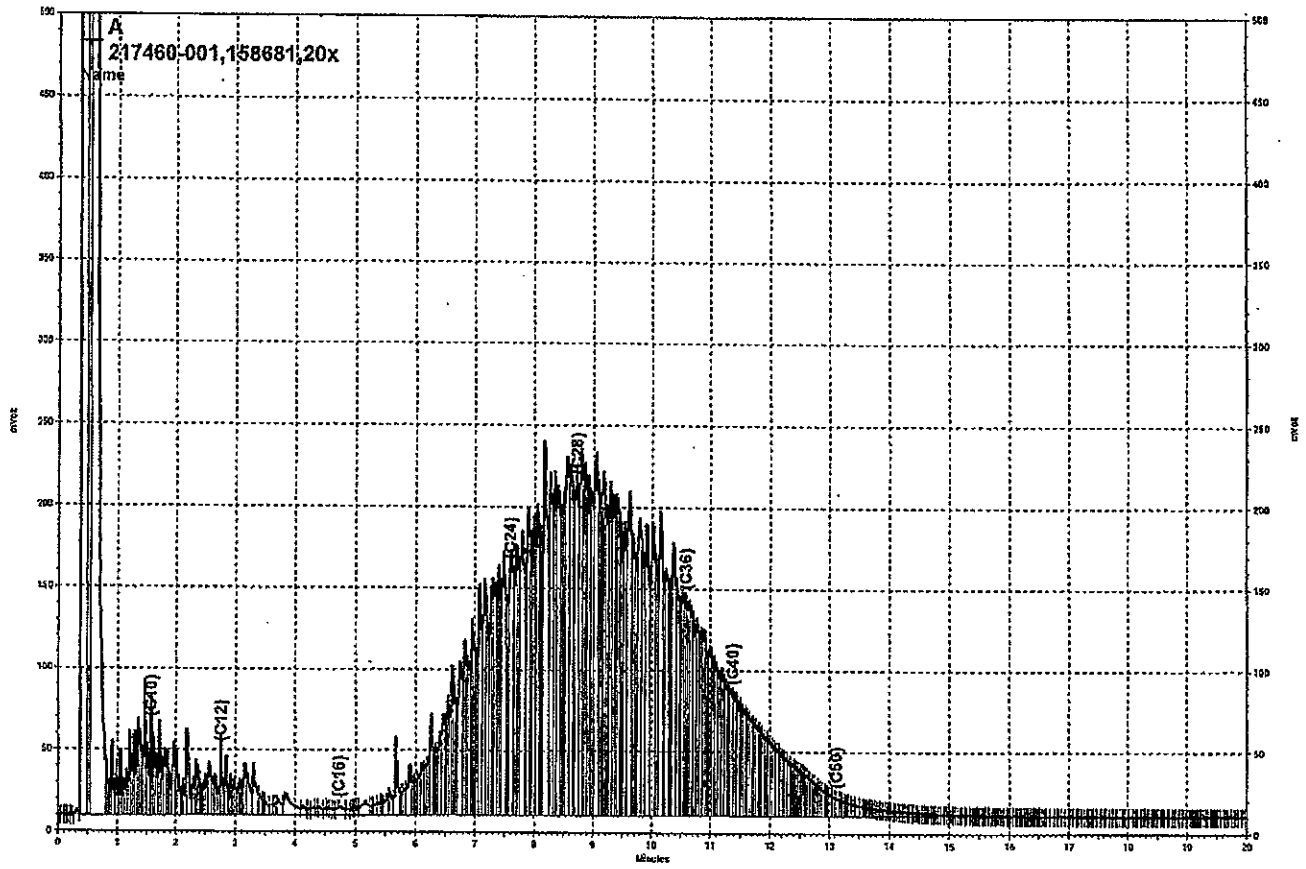
Surrogate	%REC	Limits
o-Terphenyl	76	16-164

Type:	MSD	Moisture:	18%
Lab ID:	QC527338	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	121.5	50.22	29	3-174	8	54

Surrogate	%REC	Limits
o-Terphenyl	69	16-164

RPD= Relative Percent Difference



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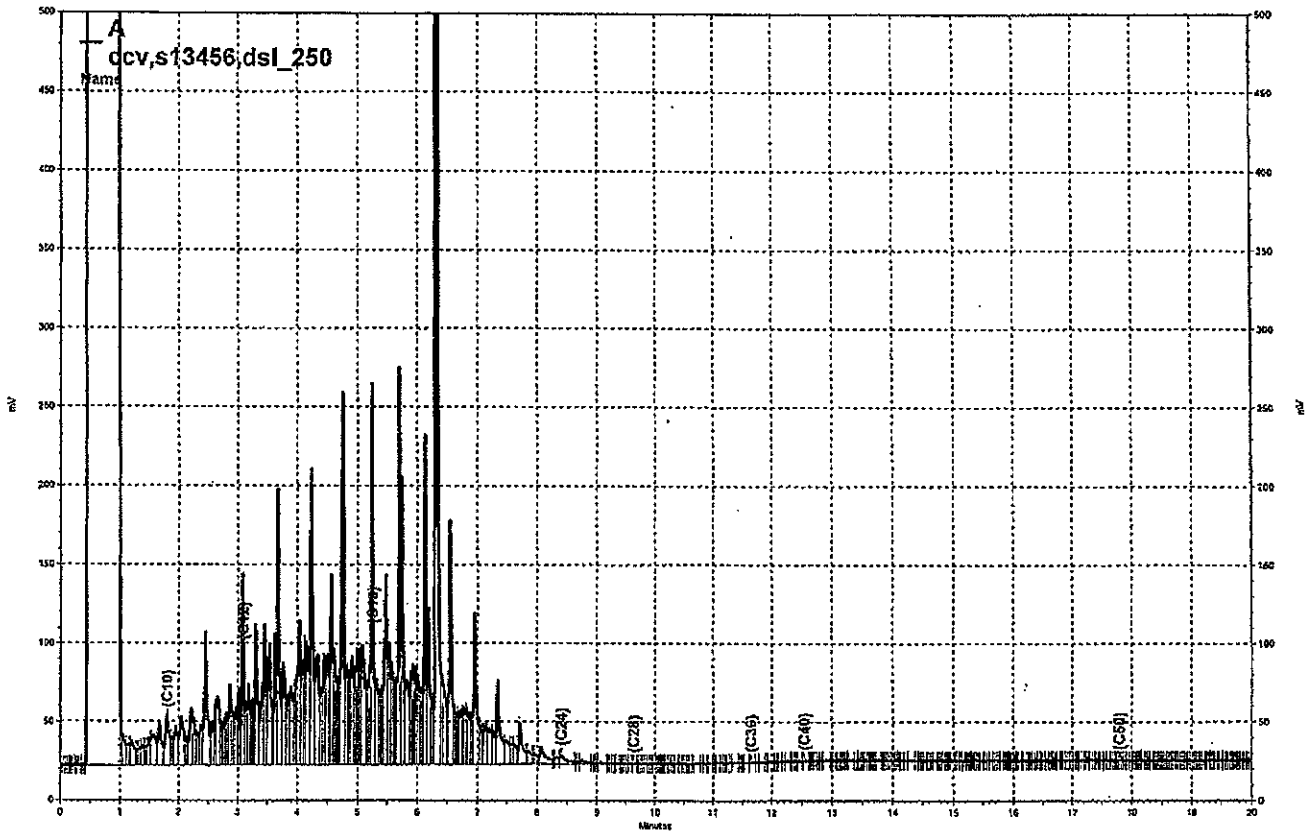

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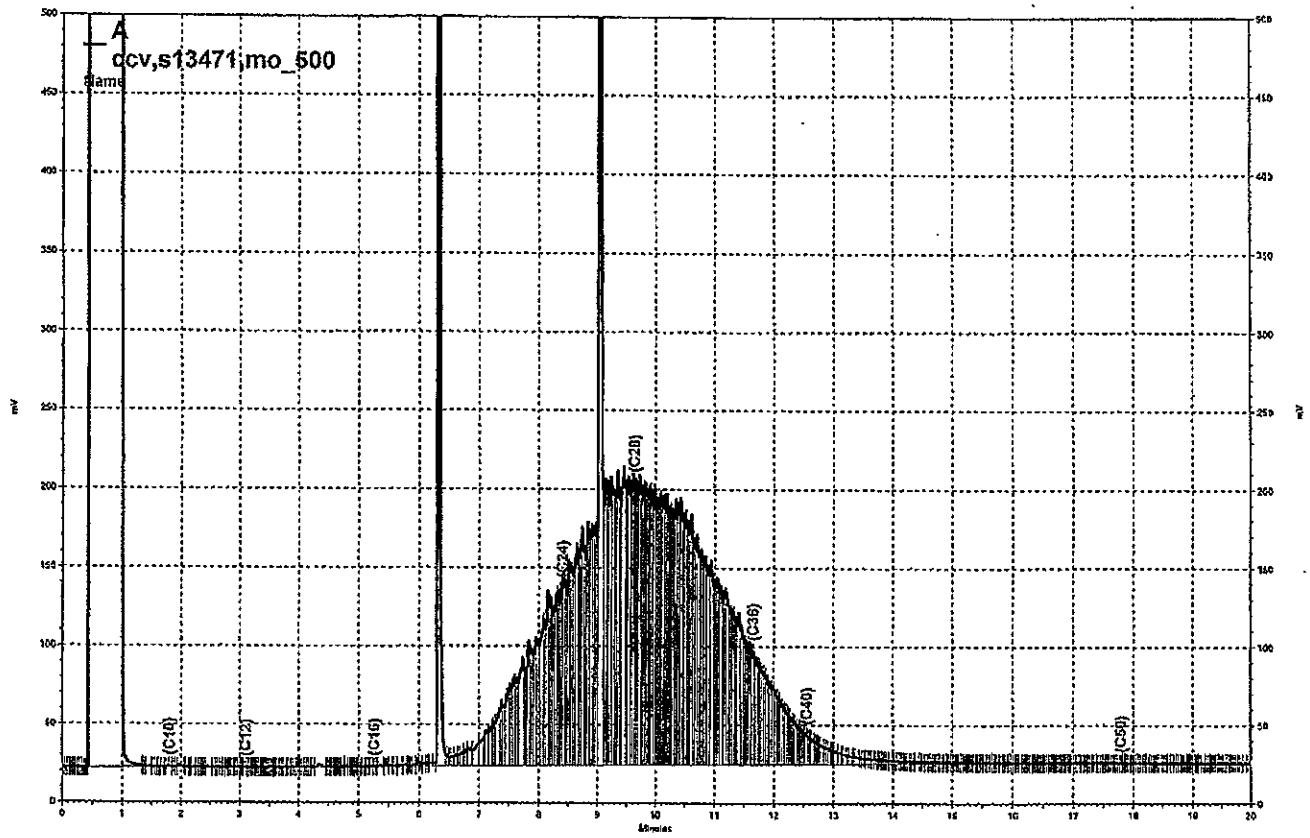

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Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	UST-1-0.6	Diln Fac:	125.0
Lab ID:	217460-001	Batch#:	158796
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	01/03/10

Moisture: 19%

Analyte	Result	RL
Freon 12	ND	1,500
tert-Butyl Alcohol (TBA)	ND	15,000
Chloromethane	ND	1,500
Isopropyl Ether (DIPE)	ND	770
Vinyl Chloride	ND	1,500
Bromomethane	ND	1,500
Ethyl tert-Butyl Ether (ETBE)	ND	770
Chloroethane	ND	1,500
Methyl tert-Amyl Ether (TAME)	ND	770
Trichlorofluoromethane	ND	770
Ethanol	ND	150,000
Acetone	ND	3,100
Freon 113	ND	770
1,1-Dichloroethene	ND	770
Methylene Chloride	ND	3,100
Carbon Disulfide	ND	770
MTBE	ND	770
trans-1,2-Dichloroethene	ND	770
Vinyl Acetate	ND	7,700
1,1-Dichloroethane	ND	770
2-Butanone	ND	1,500
cis-1,2-Dichloroethene	ND	770
2,2-Dichloropropane	ND	770
Chloroform	ND	770
Bromochloromethane	ND	770
1,1,1-Trichloroethane	ND	770
1,1-Dichloropropene	ND	770
Carbon Tetrachloride	ND	770
1,2-Dichloroethane	ND	770
Benzene	ND	770
Trichloroethene	ND	770
1,2-Dichloropropane	ND	770
Bromodichloromethane	ND	770
Dibromomethane	ND	770
4-Methyl-2-Pentanone	ND	1,500
cis-1,3-Dichloropropene	ND	770
Toluene	2,300	770
trans-1,3-Dichloropropene	ND	770
1,1,2-Trichloroethane	ND	770
2-Hexanone	ND	1,500
1,3-Dichloropropane	ND	770
Tetrachloroethene	ND	770
Dibromochloromethane	ND	770
1,2-Dibromoethane	ND	770
Chlorobenzene	ND	770
1,1,1,2-Tetrachloroethane	ND	770
Ethylbenzene	1,500	770
m,p-Xylenes	7,400	770
o-Xylene	4,000	770
Styrene	ND	770
Bromoform	ND	770
Isopropylbenzene	ND	770

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	UST-1-0.6	Diln Fac:	125.0
Lab ID:	217460-001	Batch#:	158796
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	01/03/10

Analyte	Result	RL
1,1,2,2-Tetrachloroethane	ND	770
1,2,3-Trichloropropane	ND	770
Propylbenzene	1,800	770
Bromobenzene	ND	770
1,3,5-Trimethylbenzene	5,100	770
2-Chlorotoluene	ND	770
4-Chlorotoluene	ND	770
tert-Butylbenzene	ND	770
1,2,4-Trimethylbenzene	16,000	770
sec-Butylbenzene	ND	770
para-Isopropyl Toluene	ND	770
1,3-Dichlorobenzene	ND	770
1,4-Dichlorobenzene	ND	770
n-Butylbenzene	2,200	770
1,2-Dichlorobenzene	ND	770
1,2-Dibromo-3-Chloropropane	ND	770
1,2,4-Trichlorobenzene	ND	770
Hexachlorobutadiene	ND	770
Naphthalene	6,300	770
1,2,3-Trichlorobenzene	ND	770

Surrogate	%REC	Limits
Dibromofluoromethane	96	59-139
1,2-Dichloroethane-d4	104	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	100	61-146
Trifluorotoluene (MeOH)	109	25-170

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527795	Batch#:	158796
Matrix:	Soil	Analyzed:	01/03/10
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Ethanol	ND	1,000
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
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

ND= Not Detected
RL= Reporting Limit

27.0

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527795	Batch#:	158796
Matrix:	Soil	Analyzed:	01/03/10
Units:	ug/Kg		

Analyte	Result	RL
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	99	59-139
1,2-Dichloroethane-d4	102	54-153
Toluene-d8	98	83-118
Bromofluorobenzene	95	61-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	158796
Units:	ug/Kg	Analyzed:	01/03/10
Diln Fac:	1.000		

Type: BS Lab ID: QC527797

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	86.81	87	32-148
Isopropyl Ether (DIPE)	20.00	17.43	87	43-148
Ethyl tert-Butyl Ether (ETBE)	20.00	17.65	88	51-139
Methyl tert-Amyl Ether (TAME)	20.00	18.08	90	65-131
1,1-Dichloroethene	20.00	20.27	101	61-145
Benzene	20.00	20.29	101	73-134
Trichloroethene	20.00	20.26	101	71-137
Toluene	20.00	19.52	98	72-134
Chlorobenzene	20.00	19.32	97	76-126

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-139
1,2-Dichloroethane-d4	110	54-153
Toluene-d8	97	83-118
Bromofluorobenzene	94	61-146

Type: BSD Lab ID: QC527798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	78.19	78	32-148	10	30
Isopropyl Ether (DIPE)	20.00	17.42	87	43-148	0	20
Ethyl tert-Butyl Ether (ETBE)	20.00	17.75	89	51-139	1	22
Methyl tert-Amyl Ether (TAME)	20.00	18.13	91	65-131	0	21
1,1-Dichloroethene	20.00	20.13	101	61-145	1	22
Benzene	20.00	19.99	100	73-134	2	19
Trichloroethene	20.00	20.25	101	71-137	0	19
Toluene	20.00	19.25	96	72-134	1	19
Chlorobenzene	20.00	19.30	96	76-126	0	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-139
1,2-Dichloroethane-d4	107	54-153
Toluene-d8	97	83-118
Bromofluorobenzene	94	61-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	158796
MSS Lab ID:	217527-004	Sampled:	12/30/09
Matrix:	Soil	Received:	12/30/09
Units:	ug/Kg	Analyzed:	01/03/10
Basis:	as received		

Type: MS
Lab ID: QC527805
Diln Fac: 0.9542

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<18.87	238.5	194.1	81	22-153
Isopropyl Ether (DIPE)	<0.9434	47.71	36.48	76	28-152
Ethyl tert-Butyl Ether (ETBE)	<0.9434	47.71	38.02	80	39-144
Methyl tert-Amyl Ether (TAME)	<0.9434	47.71	39.29	82	52-133
1,1-Dichloroethene	<0.9434	47.71	48.26	101	47-163
Benzene	<0.9434	47.71	44.98	94	53-139
Trichloroethene	<0.9434	47.71	44.81	94	40-167
Toluene	<0.9434	47.71	41.15	86	49-139
Chlorobenzene	<0.9434	47.71	39.85	84	40-138

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-139
1,2-Dichloroethane-d4	105	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	93	61-146

Type: MSD
Lab ID: QC527806
Diln Fac: 0.9452

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	236.3	205.1	87	22-153	6	41
Isopropyl Ether (DIPE)	47.26	37.55	79	28-152	4	29
Ethyl tert-Butyl Ether (ETBE)	47.26	39.35	83	39-144	4	28
Methyl tert-Amyl Ether (TAME)	47.26	40.44	86	52-133	4	27
1,1-Dichloroethene	47.26	47.29	100	47-163	1	37
Benzene	47.26	43.47	92	53-139	2	35
Trichloroethene	47.26	41.78	88	40-167	6	31
Toluene	47.26	38.77	82	49-139	5	33
Chlorobenzene	47.26	35.61	75	40-138	10	37

Surrogate	%REC	Limits
Dibromofluoromethane	98	59-139
1,2-Dichloroethane-d4	105	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	94	61-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	UST-1-0.6	Batch#:	158695
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	10.00		

Moisture: 19%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	4,100
Phenol	ND	4,100
bis(2-Chloroethyl)ether	ND	4,100
2-Chlorophenol	ND	4,100
1,3-Dichlorobenzene	ND	4,100
1,4-Dichlorobenzene	ND	4,100
Benzyl alcohol	ND	4,100
1,2-Dichlorobenzene	ND	4,100
2-Methylphenol	ND	4,100
bis(2-Chloroisopropyl) ether	ND	4,100
4-Methylphenol	ND	4,100
N-Nitroso-di-n-propylamine	ND	4,100
Hexachloroethane	ND	4,100
Nitrobenzene	ND	4,100
Isophorone	ND	4,100
2-Nitrophenol	ND	8,100
2,4-Dimethylphenol	ND	4,100
Benzoic acid	ND	20,000
bis(2-Chloroethoxy)methane	ND	4,100
2,4-Dichlorophenol	ND	4,100
1,2,4-Trichlorobenzene	ND	4,100
Naphthalene	3,300	810
4-Chloroaniline	ND	4,100
Hexachlorobutadiene	ND	4,100
4-Chloro-3-methylphenol	ND	4,100
2-Methylnaphthalene	6,100	810
Hexachlorocyclopentadiene	ND	8,100
2,4,6-Trichlorophenol	ND	4,100
2,4,5-Trichlorophenol	ND	4,100
2-Chloronaphthalene	ND	4,100
2-Nitroaniline	ND	8,100
Dimethylphthalate	ND	4,100
Acenaphthylene	ND	810
2,6-Dinitrotoluene	ND	4,100
3-Nitroaniline	ND	8,100
Acenaphthene	ND	810
2,4-Dinitrophenol	ND	8,100
4-Nitrophenol	ND	8,100
Dibenzofuran	ND	4,100
2,4-Dinitrotoluene	ND	4,100
Diethylphthalate	ND	4,100
Fluorene	ND	810
4-Chlorophenyl-phenylether	ND	4,100
4-Nitroaniline	ND	8,100
4,6-Dinitro-2-methylphenol	ND	8,100
N-Nitrosodiphenylamine	ND	4,100
Azobenzene	ND	4,100
4-Bromophenyl-phenylether	ND	4,100
Hexachlorobenzene	ND	4,100
Pentachlorophenol	ND	8,100

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	UST-1-0.6	Batch#:	158695
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	10.00		

Analyte	Result	RL
Phenanthrene	ND	810
Anthracene	ND	810
Di-n-butylphthalate	ND	4,100
Fluoranthene	ND	810
Pyrene	ND	810
Butylbenzylphthalate	ND	4,100
3,3'-Dichlorobenzidine	ND	8,100
Benzo(a)anthracene	ND	810
Chrysene	ND	810
bis(2-Ethylhexyl)phthalate	ND	4,100
Di-n-octylphthalate	ND	4,100
Benzo(b)fluoranthene	ND	810
Benzo(k)fluoranthene	ND	810
Benzo(a)pyrene	ND	810
Indeno(1,2,3-cd)pyrene	ND	810
Dibenz(a,h)anthracene	ND	810
Benzo(g,h,i)perylene	ND	810

Surrogate	%REC	Limits
2-Fluorophenol	DO	14-124
Phenol-d5	DO	12-123
2,4,6-Tribromophenol	DO	10-118
Nitrobenzene-d5	DO	27-106
2-Fluorobiphenyl	DO	30-113
Terphenyl-d14	DO	18-133

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527412	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl)ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	ND	67
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	670
Dimethylphthalate	ND	340
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	340
Fluoranthene	ND	67

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527412	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Result	RL
Pyrene	ND	67
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	78	14-124
Phenol-d5	76	12-123
2,4,6-Tribromophenol	61	10-118
Nitrobenzene-d5	76	27-106
2-Fluorobiphenyl	85	30-113
Terphenyl-d14	73	18-133

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527413	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Spiked	Result	%REC	%REC Limits
Phenol	2,635	1,797	68	28-115
2-Chlorophenol	2,635	1,974	75	36-114
1,4-Dichlorobenzene	2,635	2,389	91	36-112
N-Nitroso-di-n-propylamine	2,635	1,912	73	23-119
1,2,4-Trichlorobenzene	2,635	2,398	91	39-110
4-Chloro-3-methylphenol	2,635	2,698	102	38-115
Acenaphthene	988.1	710.1	72	35-118
4-Nitrophenol	2,635	2,886	110	26-115
2,4-Dinitrotoluene	2,635	2,224	84	30-128
Pentachlorophenol	2,635	1,874	71	8-116
Pyrene	988.1	673.4	68	28-136

Surrogate	%REC	%REC Limits
2-Fluorophenol	74	14-124
Phenol-d5	63	12-123
2,4,6-Tribromophenol	91	10-118
Nitrobenzene-d5	76	27-106
2-Fluorobiphenyl	75	30-113
Terphenyl-d14	80	18-133

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	158695
MSS Lab ID:	217453-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527414

Moisture: 18%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<99.82	3,230	2,474	77	26-108
2-Chlorophenol	<106.6	3,230	2,347	73	29-109
1,4-Dichlorobenzene	<89.15	3,230	2,099	65	33-105
N-Nitroso-di-n-propylamine	<98.42	3,230	2,446	76	26-113
1,2,4-Trichlorobenzene	<93.07	3,230	2,247	70	34-104
4-Chloro-3-methylphenol	<77.43	3,230	2,634	82	32-110
Acenaphthene	<17.33	1,211	896.1	74	28-114
4-Nitrophenol	<63.29	3,230	2,694	83	17-107
2,4-Dinitrotoluene	<83.05	3,230	2,332	72	26-112
Pentachlorophenol	<71.81	3,230	2,289	71	1-111
Pyrene	<18.24	1,211	940.7	78	20-135

Surrogate	%REC	Limits
2-Fluorophenol	69	14-124
Phenol-d5	72	12-123
2,4,6-Tribromophenol	72	10-118
Nitrobenzene-d5	74	27-106
2-Fluorobiphenyl	71	30-113
Terphenyl-d14	75	18-133

Type: MSD
Lab ID: QC527415

Moisture: 18%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,217	2,713	84	26-108	10	48
2-Chlorophenol	3,217	2,573	80	29-109	10	46
1,4-Dichlorobenzene	3,217	2,343	73	33-105	11	44
N-Nitroso-di-n-propylamine	3,217	2,775	86	26-113	13	53
1,2,4-Trichlorobenzene	3,217	2,435	76	34-104	8	43
4-Chloro-3-methylphenol	3,217	2,818	88	32-110	7	44
Acenaphthene	1,206	950.3	79	28-114	6	44
4-Nitrophenol	3,217	2,982	93	17-107	11	50
2,4-Dinitrotoluene	3,217	2,656	83	26-112	13	44
Pentachlorophenol	3,217	2,572	80	1-111	12	63
Pyrene	1,206	1,018	84	20-135	8	58

Surrogate	%REC	Limits
2-Fluorophenol	79	14-124
Phenol-d5	82	12-123
2,4,6-Tribromophenol	79	10-118
Nitrobenzene-d5	84	27-106
2-Fluorobiphenyl	76	30-113
Terphenyl-d14	81	18-133

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	UST-1-0.6	Batch#:	158723
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/29/09
Diln Fac:	1.000	Analyzed:	12/30/09

Type: SAMPLE Moisture: 19%
Lab ID: 217460-001

Analyte	Result	RL
1,4-Dioxane	ND	41

Surrogate	%REC	Limits
Nitrobenzene-d5	214 *	39-136
2-Fluorobiphenyl	53	42-120

Type: BLANK Lab ID: QC527511

Analyte	Result	RL
1,4-Dioxane	ND	33

Surrogate	%REC	Limits
Nitrobenzene-d5	55	39-136
2-Fluorobiphenyl	56	42-120

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527512	Batch#:	158723
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/30/09

Analyte	Spiked	Result	%Rec	Limits
1,4-Dioxane	99.63	42.57	43	10-120

Surrogate	%Rec	Limits
Nitrobenzene-d5	87	39-136
2-Fluorobiphenyl	78	42-120

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	158723
MSS Lab ID:	217447-003	Sampled:	12/22/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527513

Moisture: 8%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,4-Dioxane	<3.088	107.6	29.68	28	9-120

Surrogate	%REC	Limits
Nitrobenzene-d5	52	39-136
2-Fluorobiphenyl	51	42-120

Type: MSD
Lab ID: QC527514

Moisture: 8%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,4-Dioxane	108.1	30.27	28	9-120	2	50

Surrogate	%REC	Limits
Nitrobenzene-d5	63	39-136
2-Fluorobiphenyl	66	42-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	158723
MSS Lab ID:	217490-001	Sampled:	12/29/09
Matrix:	Soil	Received:	12/29/09
Units:	ug/Kg	Prepared:	12/30/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527611

Moisture: 7%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,4-Dioxane	<3.057	107.5	ND	0 *	9-120

Surrogate	%REC	Limits
Nitrobenzene-d5	209 *	39-136
2-Fluorobiphenyl	70	42-120

Type: MSD
Lab ID: QC527612

Moisture: 7%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,4-Dioxane	107.4	ND	0 *	9-120	NC	50

Surrogate	%REC	Limits
Nitrobenzene-d5	197 *	39-136
2-Fluorobiphenyl	65	42-120

*= Value outside of QC limits; see narrative
NC= Not Calculated
ND= Not Detected
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Field ID:	UST-1-0.6	Batch#:	158633
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/26/09
Diln Fac:	1.000		

Type:	SAMPLE	Moisture:	19%
Lab ID:	217460-001	Analyzed:	12/27/09

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	100	42-165
Decachlorobiphenyl	20	1-174

Type:	BLANK	Lab ID:	QC527171

Analyte	Result	RL	Analyzed
Aroclor-1016	ND	12	12/27/09
Aroclor-1221	ND	24	12/27/09
Aroclor-1232	ND	12	12/27/09
Aroclor-1242	ND	12	12/27/09
Aroclor-1248	ND	12	12/27/09
Aroclor-1254	ND	12	12/27/09
Aroclor-1260	ND	12	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	140	42-165	12/28/09
Decachlorobiphenyl	79	1-174	12/28/09

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527172	Batch#:	158633
Matrix:	Soil	Prepared:	12/26/09
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aroclor-1016	165.3	198.3	120	61-162	12/27/09
Aroclor-1260	165.3	224.1	136	63-161	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	127	42-165	12/28/09
Decachlorobiphenyl	92	1-174	12/28/09

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	217434-001	Batch#:	158633
Matrix:	Miscell.	Sampled:	12/22/09
Units:	ug/Kg	Received:	12/22/09
Basis:	as received	Prepared:	12/26/09

Type: MS Lab ID: QC527173

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Aroclor-1016	<0.7402	166.1	183.1	110	44-177	12/29/09
Aroclor-1260	<0.5386	166.1	181.5	109	22-179	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	130	42-165	12/27/09
Decachlorobiphenyl	98	1-174	12/27/09

Type: MSD Lab ID: QC527174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aroclor-1016	166.6	197.2	118	44-177	7	38	12/29/09
Aroclor-1260	166.6	165.9	100	22-179	9	38	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	125	42-165	12/27/09
Decachlorobiphenyl	89	1-174	12/27/09

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	UST-1-0.6	Batch#:	158687
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/28/09
Diln Fac:	1.000		

Type: SAMPLE
Lab ID: 217460-001

Moisture: 19%

Analyte	Result	RL	Analyzed
Cadmium	1.4	0.31	12/29/09
Chromium	39	0.34	12/29/09
Lead	84	0.31	12/30/09
Nickel	51	0.68	12/29/09
Zinc	220	1.2	12/29/09

Type: BLANK
Lab ID: QC527367

Analyzed: 12/29/09

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.30
Lead	ND	0.25
Nickel	ND	0.60
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	158687
Units:	mg/Kg	Prepared:	12/28/09
Diln Fac:	1.000	Analyzed:	12/30/09

Type: BS Lab ID: QC527368

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.10	101	77-120
Chromium	100.0	96.82	97	74-118
Lead	100.0	94.96	95	73-117
Nickel	25.00	23.96	96	73-115
Zinc	25.00	23.35	93	71-119

Type: BSD Lab ID: QC527369

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.03	100	77-120	1	18
Chromium	100.0	96.72	97	74-118	0	25
Lead	100.0	94.17	94	73-117	1	24
Nickel	25.00	24.15	97	73-115	1	17
Zinc	25.00	23.73	95	71-119	2	18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	158687
MSS Lab ID:	217442-002	Sampled:	12/22/09
Matrix:	Soil	Received:	12/23/09
Units:	mg/Kg	Prepared:	12/28/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527370

Moisture: 17%

Analyte	MSS Result	Spiked	Result	%Rec	Limits
Cadmium	<0.05964	12.05	10.92	91	46-132
Chromium	45.35	120.5	159.4	95	27-153
Lead	3.851	120.5	104.8	84	27-147
Nickel	33.92	30.12	60.79	89	15-165
Zinc	31.41	30.12	51.79	68	6-172

Type: MSD
Lab ID: QC527371

Moisture: 17%

Analyte	Spiked	Result	%Rec	Limits	RPD	Lim
Cadmium	12.05	10.10	84	46-132	8	29
Chromium	120.5	164.8	99	27-153	3	40
Lead	120.5	103.4	83	27-147	1	54
Nickel	30.12	69.84	119	15-165	14	46
Zinc	30.12	60.94	98	6-172	16	53

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Moisture

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.08	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	UST-1-0.6	Batch#:	158715
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	%	Analyzed:	12/29/09

Result	RL
19	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.08	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	UST-1-0.6	Diln Fac:	1.000
Type:	SDUP	Batch#:	158715
MSS Lab ID:	217460-001	Sampled:	12/23/09
Lab ID:	QC527484	Received:	12/23/09
Matrix:	Soil	Analyzed:	12/29/09

MSS Result	Result	RL	RPD	Lim
18.56	17.49	1.000	6	44

RL= Reporting Limit
RPD= Relative Percent Difference