

**PALOS VERDES LANDFILL
REMEDIAL INVESTIGATION REPORT**

APPENDIX A.3.2.2

**CHAINS OF CUSTODY FOR THE
GROUND WATER SAMPLES FROM RI BORINGS**

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 97579 2) SJ 3) SJ 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ -10) SJ

Charge No.: 5066909 B 842
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 6/7/90 14:00 2) / / 90 : 3) / / 90 :
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 7 Liters
2) 02 - PVLF - HCPW Type: Well Volume: Liters
3) 02 - PVLF - HCPW Type: Well Volume: Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB - 16 75 ft. d. no FI provided
2)
3)
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Samples: 10 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA 64602
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst:

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7				PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>JL Havens</i>				(Printed) Lisa Havens																		
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition														
								Anal. Lab	Back to Site	Extruded												
B-16	75'	6/7	1400	X				X			10	X	X	X	X	X	X	X	X	X		
Relinquished By: (Sig) <i>JL Havens</i>			Date/Time 6/8/10 8:45 AM	Received by: (Sig) <i>Misty Yelton</i>				Relinquished by: (Sig) <i>Misty Yelton</i>			Date/Time 6/8/10 10:10	Received by: (Sig) <i>JL Havens</i>										
Relinquished By: (Sig) <i>JL Havens</i>			Date/Time	Received by: (Sig)				Relinquished by: (Sig)			Date/Time	Received by: (Sig)										
Relinquished By: (Sig)			Date/Time	Received for Lab by: (Sig)				Date/Time	Sample Integrity:													

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ ~~97704~~ 2) SJ 97705 3) SJ 97706 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge No.: 5066909 B 842
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 6/11/90 : AM 2) 6/11/90 : AM 3) 6/11/90 : AM
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 7 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 7 Liters
3) 02 - PVLF - HCPW Type: Well Volume: 9.5 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-9 ~~depth 200'~~ 200', FI not included
2) RFB-9 200', FI not included (duplicate)
3) Field blank, FI T-001
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 21 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 97705 { 1) QA 625
2) QA Mod 8015
3) QA metals
4) QA 101, 102, 201, 204, 257
5) QA Oil & grease
6)
7)
8)
9)
10)

Notes to Analyst: Teflon tape also included. oil & grease samples
preserved in H₂SO₄

HERZOG ASSOCIATES
 13 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek La. stor

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature)					(Printed)																			
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
								Anal. Lab	Back to Site	Extruded														
B-9	200'	6/11	Am	X				X				10	X	X	X	X	X	X	X	X	X	X	Note: One	
B-9	200'	6/11	Am	X				X				10	X	X	X	X	X	X	X	X	X	X	VOA containing	
Field	Blank	6/11	Am	X				X				1											teflon tape	
																							per Steve	
																							Carr's request	
																							is included.	
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na												
Relinquished By: (Sig)		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
<i>Lisa Havens</i>		6/12/90 7:15 AM		<i>Misty Yelton</i>				<i>Misty Yelton</i>		6/12/90 11:07		<i>Lisa Havens</i>												
Relinquished By: (Sig)		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
<i>[Signature]</i>																								
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:														
<i>[Signature]</i>																								

(duplicate)

Aug 2/19/90

3719900618-01-
3719900618-02-

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 9808 2) SJ 98087 3) SJ 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden 3) S. Carr

Date & Time 1) 6/18/90 14:00 2) 6/18/90 3) 6/18/90
Grab Samples: 4) 1/90 5) 1/90 6) 1/90
7) 1/90 8) 1/90 9) 1/90 10) 1/90

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 8 Liters
3) 02 - PVLF - HCPW Type: Well Volume: Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-13, 200', FI # 4-003P
2) RFB-13, equip. plant FI E-001
3)
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 18 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) ~~Split O.I. & grease~~
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst:

Brenda Nease Lavin

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor y

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS							
SAMPLER(S): (Signature) <i>Alan Mair</i>								(Printed) <i>Alan Mair</i>																			
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																			
								Anal. Lab	Back to Site	Extruded																	
B-13	200'	6/19/10	PM	X				X			10	X	X	X	X	X	X	X	X	#4-0038							
Equipment	Blank			X				X			8									E-001							
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 6/19/10 10:10	Received by: (Sig) <i>Steve Benham</i>			Relinquished by: (Sig) <i>Steve Benham</i>		Date/Time 6/19/10 12:45	Received by: (Sig) <i>[Signature]</i>																		
Relinquished By: (Sig) <i>[Signature]</i>		Date/Time	Received by: (Sig)			Relinquished by: (Sig)		Date/Time	Received by: (Sig)																		
Relinquished By: (Sig) <i>[Signature]</i>		Date/Time	Received for Lab by: (Sig)			Date/Time	Sample Integrity:																				

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

0719900628-4
37.990628
0719900628-4

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San José Crèek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 98673 2) SJ 98674 3) SJ 98675 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 6/28/90 9:30 2) 6/28/90 9:00 3) 6/28/90
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations:	1) 02 - PVLF - HCPW	Type: Well	Volume: 10	Liters
	2) 02 - PVLF - HCPW	Type: Well Equip	Volume: 9	Liters
	3) 02 - PVLF - HCPW	Type: Well Trip	Volume: 0.04	Liters
	4) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	5) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	6) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	7) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	8) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	9) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	10) 02 - PVLF - HCPW	Type: Well	Volume:	Liters

Descriptions: 1) RFB-3, 1841, FT 4008 4-086
2) Equipment blank, FT E-005 (No Oil + Grease contamination)
3) Trip blank, FT, T-014 (collected)
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for EPA 601, EPA 602
2) -
3) -
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst:

Brenda Please Review

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor.

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature) <i>Alan Mair</i>										(Printed) Alan Mair																					
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																							
								Anal. Lab	Back to Site	Extruded																					
B-3	184'	6/28/90	930	X				X			10	X	X	X	X	X	X	X	X	X	X	4-066									
Equipment Blk		6/28/90	900	X							8											E-005									
Trip Blk		6/29/90		X							1											T-014									
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																			
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 6/29/90 1040		Received by: (Sig) <i>Steve Bumbard</i>				Relinquished by: (Sig) <i>Steve Bumbard</i>		Date/Time 6-29-90		Received by: (Sig) <i>[Signature]</i>																			
Relinquished By: (Sig) <i>[Signature]</i>		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)																			
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:																					

3719900702-05-00-
3719900702-06-00-
3719900629-01-00-
3719900702-07-00-

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 98794 2) SJ 98795 3) SJ 98796 4) SJ 98797 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~I. O'Connell~~ 2) E. Laden

Date & Time 1) 7/2/90 9:15 2) 7/2/90 9:15 3) 6/29/90
Grab Samples: 4) 7/2/90 12:20 5) 1/90 : 6) 1/90 :
7) 1/90 : 8) 1/90 : 9) 1/90 : 10) 1/90 :

Sample Locations:	1) 02 - PVLF - HCPW	Type: Well	Volume: 7	Liters
	2) 02 - PVLF - HCPW	Type: Well Equip	Volume: 5	Liters
	3) 02 - PVLF - HCPW	Type: Well Trip	Volume: 0.04	Liters
	4) 02 - PVLF - HCPW	Type: Well Rins.	Volume: 0.16	Liters
	5) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	6) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	7) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	8) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	9) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	10) 02 - PVLF - HCPW	Type: Well	Volume:	Liters

Descriptions: 1) RFB-8, 128' FI 3-000 070
2) Equipment blank, FI E-007 site RFB-8
3) Trip blank, FI T-015
4) Rinse blank, FI E-006 site RFB-40
5)
6)
7)
8)
9)
10)

Project No.: 673 ^{Containers} No. of Samples: 23 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for EPA 625 (Need extra 1 liter for this)
2) Do not test for oil & grease
3) -
4) DO EPA 601 & 602 ONLY
5)
6)
7)
8)
9)
10)

Notes to Analyst: #1 Extremely silty. If difficulty performing analysis, contact me.

Brenda Please Review

7/12/90

371990 711-02
3719900111-03
3719400711-0
3719900711-0

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99104 2) SJ 99105 3) SJ 99106 4) SJ 99107 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~_____~~ 2) E. Laden

Date & Time 1) 7/11/90 10:00 2) 7/11/90 9:00 3) 7/11/90 13:30
Grab Samples: 4) 7/11/90 : 5) / 190 : 6) / 190 :
7) / 190 : 8) / 190 : 9) / 190 : 10) / 190 :

Sample Locations: 1) 02 - PVLF - HCPW	Type: Well	Volume: 6	Liters
2) 02 - PVLF - HCPW	Type: Well equip	Volume: 5	Liters
3) 02 - PVLF - HCPW	Type: Well equip	Volume: 0.12	Liters
4) 02 - PVLF - HCPW	Type: Well trip	Volume: 0.04	Liters
5) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
6) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
7) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
8) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
9) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
10) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters

Descriptions: 1) RFB-4, 76, 5', FI 1-052
2) Equip blank, FIE-012
3) Rinse blank, FIE-011
4) Trip blank, FIT-020
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of ^{Containers} Samples: 22 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for ~~_____~~ metals Silver Cur = 625
2) -
3) Do EPA 601, 602 only
4) -
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: -

Brenda Nease Laveau

HERZUG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor.

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS	
SAMPLER(S): (Signature) <i>Lisa Havens</i>										(Printed) <i>Lisa Havens</i>														
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
								Anal. Lab	Back to Site	Extruded														
B-4	76.5	7/11	1000	X				X			10	X	X	X	X	X	X	X	X	X	X	1-052		
Equipment	Blank	7/11	900	X				X			8	X	X	X	X	X	X	X	X	X	X	E-012		
Rinseate	Blank	7/4	1330	X				X			3											E-011		
Trip	Blank	7/11		X				X			1											T-020		
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na												
Relinquished By: (Sig) <i>Lisa Havens</i>			Date/Time 7/12/90 9:30 AM		Received by: (Sig) <i>Misty Helton</i>			Relinquished by: (Sig) <i>Misty Helton</i>		Date/Time 7/12/90 11:45		Received by: (Sig) <i>Vanna Ayo</i>												
Relinquished By: (Sig) <i>Vanna Ayo</i>			Date/Time		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
Relinquished By: (Sig)			Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:														

1/17/00

19 00116-01-00
0119900116-02-00
0119900116-03-00
0119900116-4-00
01199006710-01-00

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99234 2) SJ 99235 3) SJ 99236 4) SJ 99237 5) SJ 99238
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. [unclear] 2) E. Laden

Date & Time 1) 7/16/90 9:00 2) 7/16/90 9:00 3) 7/16/90 14:30
Grab Samples: 4) 7/16/90 14:30 5) 7/13/90 6) 1/90
7) 1/90 8) 1/90 9) 1/90 10) 1/90

Sample Locations:	Type:	Volume:	Liters
1) 02 - PVLF - HCPW	Well	8	
2) 02 - PVLF - HCPW	Well	6	
3) 02 - PVLF - HCPW	Well	8	
4) 02 - PVLF - HCPW	Well	8	
5) 02 - PVLF - HCPW	Well	0.04	
6) 02 - PVLF - HCPW	Well		
7) 02 - PVLF - HCPW	Well		
8) 02 - PVLF - HCPW	Well		
9) 02 - PVLF - HCPW	Well		
10) 02 - PVLF - HCPW	Well		

Descriptions: 1) RFB-11, 9.5', FI 3-087
2) Equipment blank, FI E-013
3) RFB-16, 50', FI GW-16-1
4) Equipment blank, FI E-014
5) Trip blank, FI T-022
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Samples: 36 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for metals
2) -
3) Split for 257, 204, 301, 102, 101, 108
4) -
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: #4 is missing amber metals bottle

Brenda Nease Review

HERZUG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor. 1

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature) <i>Alan Meir</i>										(Printed) Alan Meir																					
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																							
								Anal. Lab	Back to Site	Extruded																					
B-11	9.5'	7/16/90	0900	X				X			10	X	X	X	X	X	X	X	X	X	X	3-087									
Equipment Bk		7/16/90	0900	X							8											E-013									
B-16	50'	7/16/90	1430	X				X			10	X	X	X	X	X	X	X	X	X	X	MA-1000 GW-16-1									
Equipment Bk		7/16/90	1430	X							7											E-014									
Trip Blank		7/13/90		X							1											T-022									
* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																															
Relinquished By: (Sig) <i>Alan Meir</i>				Date/Time 7/13/90 1140		Received by: (Sig) <i>John</i>				Relinquished by: (Sig) <i>John</i>				Date/Time		Received by: (Sig)															
Relinquished By: (Sig)				Date/Time		Received by: (Sig)				Relinquished by: (Sig)				Date/Time		Received by: (Sig)															
Relinquished By: (Sig)				Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:																			

7/17/90

3719900 17-21-0
3719900 17-02-0
3719900 17-03-0
3719900 17-04-0

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99318 2) SJ 99319 3) SJ 99320 4) SJ 99321 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~_____~~ 2) E. Laden

Date & Time 1) 7/17/90 17:00 2) 7/17/90 17:00 3) 7/17/90 12:30
Grab Samples: 4) 7/17/90 : 5) / 190 : 6) / 190 :
7) / 190 : 8) / 190 : 9) / 190 : 10) / 190 :

Sample Locations:	Type:	Volume:	Liters
1) 02 - PVLF - HCPW	Well	8	Liters
2) 02 - PVLF - HCPW	Well	8	Liters
3) 02 - PVLF - HCPW	Well Equip	6	Liters
4) 02 - PVLF - HCPW	Well Trip	0.04	Liters
5) 02 - PVLF - HCPW	Well		Liters
6) 02 - PVLF - HCPW	Well		Liters
7) 02 - PVLF - HCPW	Well		Liters
8) 02 - PVLF - HCPW	Well		Liters
9) 02 - PVLF - HCPW	Well		Liters
10) 02 - PVLF - HCPW	Well		Liters

Descriptions: 1) RFB-13, 195' FI GW-13-02
2) RFB-13, 195' FI GW-13-03
3) Equipment blank FI E-015
4) Trip blank FI ~~_____~~ T-023
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of ^{Containers} Samples: 29 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: EPA 601, EPA 602
2) QA: EPA 625 - Not enough sample provided Orel said to
3) - dilute samples so QA could be done
4) -
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

Brenda Nease Lavin

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Palmdale, CA 94954
 707-792-5600

CHAIN OF CUSTODY RECORD-WATER SAMPLES

Lab Name San Jose Creek Labo. Y

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation		SAMPLER(S): (Signature) <i>[Signature]</i>		(Printed) Alan Blair																	
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition			Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS	
								Anal. Lab	Back to Site	Extruded													
B-13	195'	7/7/90	1700	X				X			10	X	X	X	X	X	X	X	X	X	X	X	GW3-02
B-13	195'	7/7/90	1700	X				X			10	X	X	X	X	X	X	X	X	X	X	X	GW3-03
Equipment Tank		7/7/90	1230	X							8												E-015
Temp Bunk		7/7/90		X							1												T-023
Relinquished By: (Sig.)		Date/Time	Received by: (Sig.)	Relinquished by: (Sig.)		Date/Time	Received by: (Sig.)																
Relinquished By: (Sig.)		Date/Time	Received by: (Sig.)	Relinquished by: (Sig.)		Date/Time	Received by: (Sig.)																
Relinquished By: (Sig.)		Date/Time	Received for Lab by: (Sig.)	Date/Time	Sample Integrity:																		

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

3719900724-01
3719900724-02
3719900718-01

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99569 2) SJ 99570 3) SJ 99571 4) SJ _____ 5) SJ _____
6) SJ _____ 7) SJ _____ 8) SJ _____ 9) SJ _____ 10) SJ _____

Charge No.: 5066909 B 842
Requested By: M. Jacobs Report to: 1) ~~_____~~ 2) E. Laden

Date & Time Grab Samples: 1) 7/24/90 15:00 2) 7/24/90 12:30 3) 7/18/90 ✓
4) 1/190 : _____ 5) 1/190 : _____ 6) 1/190 : _____
7) 1/190 : _____ 8) 1/190 : _____ 9) 1/190 : _____ 10) 1/190 : _____

Sample Locations:	1) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: <u>15</u> Liters
	2) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: <u>7</u> Liters
	3) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: <u>0.04</u> Liters
	4) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	5) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	6) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	7) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	8) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	9) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters
	10) <u>02 - PVLf - HCPW</u>	Type: <u>Well</u>	Volume: _____ Liters

Descriptions: 1) RFB-3, 185' FI ~~from~~ GW-3-04
2) Equipment blank, FI E-016
3) Trip blank, FI T-024
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Samples: ^{Containers} 30 Project Title: PVLf RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: EPA 801, EPA 802, EPA 825, Metals, oil, tarose, 257, 304, 301, 102, 101
2) -
3) -
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor.

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature)				SAMPLER(S): (Printed)																				
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
								Anal. Lab	Back to Site	Extruded														
B-3	185	7/24/90	1500	X				X				21	X	X	X	X	X	X	X	X	X		GW3-04	
Equipment Blank		7/24/90	1230	X								8											E-016	
Trip Blank		7/18/90		X								1											T-024	
Relinquished By: (Sig)		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
<i>Alan Mair</i>		7/25/90		<i>Steve Benson</i>				<i>Steve Benson</i>		7-25-90		<i>Alan</i>												
Relinquished By: (Sig)		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
<i>Alan</i>																								
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:														

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

9/11/90

3719900726-01-00
3719900726 J2-0
3719900726-03-0

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99718 2) SJ 99719 3) SJ 99720 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~E. Laden~~ 2) E. Laden

Date & Time 1) 7/26/90 11:30 2) 7/26/90 10:55 3) 7/26/90
Grab Samples: 4) / /90 : 5) / /90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations:	1) 02 - PVLF - HCPW	Type: Well	Volume: 20	Liters
	2) 02 - PVLF - HCPW	Type: Well Equip	Volume: 10	Liters
	3) 02 - PVLF - HCPW	Type: Well Trip	Volume: 0.04	Liters
	4) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	5) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	6) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	7) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	8) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	9) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters
	10) 02 - PVLF - HCPW	Type: Well	Volume: _____	Liters

Descriptions: 1) REB-4, 70', FI 6W4-05
2) Equipment blank, FI E-017
3) Trip blank, FI T-026
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of ^{Containers} Samples: 30 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for EPA 601, 602 & 625, metals, oil & grease, and 257, 204, 301, 102
2) -
3) -
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: #1 is a double-size single sample, not a set of duplicates

Brenda Please Review

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor y

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.1-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature)										(Printed)																					
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																							
								Anal. Lab	Back to Site	Extruded																					
B-4	70'	7-26-90	1130	X				X			21	X	X	X	X	X	X	X	X	X	X	GW4-05									
Equipment Blank		7-26-90	1055	X				X			8											E-017									
Trip Blank		7-26-90		X							1											T-026									
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																			
Relinquished By: (Sig)			Date/Time		Received by: (Sig)					Relinquished by: (Sig)			Date/Time		Received by: (Sig)																
<i>Alan Mair</i>			7-27-90 1025		<i>Steve Burbank</i>					<i>Steve Burbank</i>			7-27-90 11:30		<i>Van Dyke</i>																
Relinquished By: (Sig)			Date/Time		Received by: (Sig)					Relinquished by: (Sig)			Date/Time		Received by: (Sig)																
<i>Van Dyke</i>																															
Relinquished By: (Sig)			Date/Time		Received for Lab by: (Sig)					Date/Time		Sample Integrity:																			

7/14/90

3719900726-07-00
3719900726-08-

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San José Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99724 2) SJ 99725 3) SJ 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~J. Jacobs~~ 2) E. Laden

Date & Time 1) 7/26/90 14:00 2) 7/26/90 11:40 3) 1/190 :
Grab Samples: 4) 1/190 : 5) 1/190 : 6) 1/190 :
7) 1/190 : 8) 1/190 : 9) 1/190 : 10) 1/190 :

Sample Locations: 1) 02 - PVLf - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLf - HCPW Type: Well Volume: 10 Liters
3) 02 - PVLf - HCPW Type: Well Volume: Liters
4) 02 - PVLf - HCPW Type: Well Volume: Liters
5) 02 - PVLf - HCPW Type: Well Volume: Liters
6) 02 - PVLf - HCPW Type: Well Volume: Liters
7) 02 - PVLf - HCPW Type: Well Volume: Liters
8) 02 - PVLf - HCPW Type: Well Volume: Liters
9) 02 - PVLf - HCPW Type: Well Volume: Liters
10) 02 - PVLf - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-21,28', FI B21-05
2) Equipment blank, FIF-018
3)
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 18 Project Title: PVLf RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) ~~02~~
2) -
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: #1 is very sedimented & metal's container is almost empty.
2 & trouble calling.

Brenda Nease Review

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 153841-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS														
SAMPLER(S): (Signature) <i>Alan Meir</i> <i>Alan Meir</i>								(Printed) <i>Alan Meir</i>																									
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																									
		Anal. Lab	Back to Site	Extruded																													
B-21	28'	7-26-90	1400	X				X										10	X	X	X	X	X	X	X	X	X	X	X	B21-05			
Equipment Box		7-26-90	1140	X														8												E-018			
Relinquished By: (Sig) <i>Alan Meir</i>		Date/Time 7-27-90 1025		Received by: (Sig) <i>Steve Brinkman</i>				Relinquished by: (Sig) <i>Steve Brinkman</i>		Date/Time 7-27-90 11:30		Received by: (Sig) <i>Vanna Day</i>																					
Relinquished By: (Sig) <i>Vanna Day</i>		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)																					
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:																							

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San José Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ99794 2) SJ99795 3) SJ 99796 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~Sanidad~~ 2) E. Laden

Date & Time 1) 7/27/90 8:30 2) 7/27/90 8:30 3) / / 190 :
Grab Samples: 4) / / 190 : 5) / / 190 : 6) / / 190 :
7) / / 190 : 8) / / 190 : 9) / / 190 : 10) / / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 8 Liters
2) 02 - PVLF - HCPW Type: ~~Well~~ Equip Volume: 6 Liters
3) 02 - PVLF - HCPW Type: ~~Well~~ Trip Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-27, 30157', FJ B27-12
2) Equipment blank, FJ E-019
3) Trip blank, FJ T-026
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of ^{Containers} ~~samples~~: 3/8 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: metals - Montgomery broke these vials
2) for metals - on both 99794, 95
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: One jug of #1 collected 7/30/90, but is part of
same sample - allowed to settle to reduce sediment. #1 is missing one
oil & grease jar

Brenda Pearce Larkin

HERZ ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laborat

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS	
SAMPLER(S): (Signature)								SAMPLER(S): (Printed)			Final Sample Disposition														
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Anal. Lab	Back to Site	Extruded															
B27	57'	7/27/90	8:30	X									X	X	X	X	X	X	X	X	X	827-12			
Equipment																									
Blank		7/27/90	8:30	X																		E-019			
Top	Blank	7/27/90		X																		F-026			
* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																									
Relinquished By: (Sig) <i>Misty Yelton</i>		Date/Time 10:35 7/30/90		Received by: (Sig) <i>Steve Burbank</i>				Relinquished by: (Sig) <i>Steve Burbank</i>		Date/Time 7:30-90 11:36		Received by: (Sig) <i>Vann Ayo</i>													
Relinquished By: (Sig) <i>Vann Ayo</i>		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)													
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:															

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San José Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 99996 2) SJ 99997 3) SJ 99998 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~J. Jacobs~~ 2) E. Laden

Date & Time 1) 8/1/90 10:00 2) 8/1/90 9:10 3) 8/1/90
Grab Samples: 4) 1/90 5) 1/90 6) 1/90
7) 1/90 8) 1/90 9) 1/90 10) 1/90

Sample Locations:	1) 02 - PVLF - HCPW	Type: Well	Volume: 10	Liters
	2) 02 - PVLF - HCPW	Type: Well Equip	Volume: 8	Liters
	3) 02 - PVLF - HCPW	Type: Well Trip	Volume: 0.04	Liters
	4) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	5) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	6) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	7) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	8) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	9) 02 - PVLF - HCPW	Type: Well	Volume:	Liters
	10) 02 - PVLF - HCPW	Type: Well	Volume:	Liters

Descriptions: 1) RFB-21,30', FI B21-5
2) Equip blank, FI E-02B
3) Trip blank, FI T-029
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of ^{Containers} Samples: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: 257204.301, 102, 101
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: -

Brenda Nease Review

HERGENROT ASSOCIATES
 1318 Woodway Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labo.

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 153842-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature)										(Printed)																					
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																							
								Anal. Lab	Back to Site	Extruded																					
B-21	30'	8/1/90	10:00	X							10	X	X	X	X	X	X	X	X	X	X	B-21-5									
Equipment Blank		8/1/90		X							8											E-020									
Trip Blank		8/1/90		X							1											T-029									
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																			
Relinquished By: (Sig) <i>Misty Yelton</i>			Date/Time 7:30 8/2/90		Received by: (Sig) <i>Steve Burbank</i>			Relinquished by: (Sig) <i>Steve Burbank</i>			Date/Time 9:50 8-2-90		Received by: (Sig) <i>Vanna Pyle</i>																		
Relinquished By: (Sig) <i>Vanna Pyle</i>			Date/Time		Received by: (Sig)			Relinquished by: (Sig)			Date/Time		Received by: (Sig)																		
Relinquished By: (Sig)			Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:																					

8/2/90

02-004
03-004
04-004
05-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ00120 2) SJ00121 3) SJ00122 4) SJ00123 5) SJ00124
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 8/3/90 13:00 2) 8/3/90 12:00 3) 8/3/90 9:40
Grab Samples: 4) 8/3/90 13:00 5) 8/3/90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
3) 02 - PVLF - HCPW Type: Well Equip Volume: 8 Liters
4) 02 - PVLF - HCPW Type: Well Equip Volume: 8 Liters
5) 02 - PVLF - HCPW Type: Trip Volume: 0.04 Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-30, 75', FI B30-6
2) RFB-27, 55', FI B27-16
3) Equipment blank, FIE-022
4) Equipment blank, FIE-023
5) Trip blank, FI T-031
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 37 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) -
2) Split for ~~ANYSOM~~ EPA 801, EPA 802
3) -
4) -
5) -
6)
7)
8)
9)
10)

Notes to Analyst: #1 Very silty sample

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation								Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature) <i>Misty Helton</i>									(Printed)																				
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																					
								Anal. Lab	Back to Site	Extruded																			
B-30	75	8/3/90	1300	X							10	X	X	X	X	X	X	X	X	B-30-6									
B-27	55	8/3/90	1200	X							10	X	X	X	X	X	X	X	X	B-27-16									
Equipment Blank		B-27		X							8									E-022									
Equipment Blank		B-30		X							8									E-023									
Trip Blank				X							1									T-031									
Relinquished By: (Sig) <i>Misty Helton</i>		Date/Time 8/6/90	Received by: (Sig) <i>[Signature]</i>			Relinquished by: (Sig) <i>[Signature]</i>		Date/Time 8-6-90	Received by: (Sig) <i>Vann Ayo</i>																				
Relinquished By: (Sig) <i>Vann Ayo</i>		Date/Time	Received by: (Sig)			Relinquished by: (Sig)		Date/Time	Received by: (Sig)																				
Relinquished By: (Sig)		Date/Time	Received for Lab by: (Sig)			Date/Time	Sample Integrity:																						

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

97120

3719900806-03-00
04-00
05-00

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ00185 2) SJ00186 3) SJ00187 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~J. Jacobs~~ M. Munillo 2) E. Laden

Date & Time 1) 8/6/90 11:00 2) 8/6/90 10:36 3) 8/6/90
Grab Samples: 4) / / 190 : 5) / / 190 : 6) / / 190 :
7) / / 190 : 8) / / 190 : 9) / / 190 : 10) / / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: ~~Well~~ Equip Volume: 8 Liters
3) 02 - PVLF - HCPW Type: ~~Well~~ Trip Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-18, 223, FI B-18-1
2) Equipment blank FI E-024
3) Trip blank, FIT-032
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of ^{Containers} Samples: 14 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: metals
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: Skipped QA EPA 625 (missing extra 1 gal. jug). Will return later.
Also, some bottles of #1 marked incorrectly as B18-2. Correct
ID. is B18-1.

Brenda Nease Review

8/14/90

3719900813-03-004

04-004

05-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 00520 2) SJ 00521 3) SJ 00522 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) ~~M. Jacobs~~ 2) E. Laden
M. Huillo

Date & Time 1) 8/13/90 9:00 2) 8/13/90 9:00 3) 8/13/90
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 8.5 Liters
2) 02 - PVLF - HCPW Type: ~~Well~~ Equip Volume: 8 Liters
3) 02 - PVLF - HCPW Type: ~~Well~~ Trip Volume: 0.0 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB-32, 123, FI B32-15
2) Equipment blank, FI E-02-S
3) Trip blank, FI E-036
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 22 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) ~~02~~ Split for EPA 625
2) -
3) -
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: Extra jug mistakenly included in #1

Brenda Please Review

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ00760 2) SJ00761 3) SJ00762 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. ~~Cowland~~ M. Murillo 2) E. Laden

Date & Time 1) 8/16/90 13:30 2) 8/16/90 13:30 3) 8/16/90 :
Grab Samples: 4) / / 190 : 5) / / 190 : 6) / / 190 :
7) / / 190 : 8) / / 190 : 9) / / 190 : 10) / / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well equip Volume: 8 Liters
3) 02 - PVLF - HCPW Type: Well trip Volume: 0.0A Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) L-1, 119', F.I. L-1-13
2) Equip Blank, F.I. E-027
3) Trip Blank, F.I. T-039
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of ^{Containers} Samples: 20 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for EPA 1025
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

Brenda Nease Review

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>Misty Gelton</i>								(Printed)												
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition												
								Anal. Lab	Back to Site	Extruded										
L-1	119'	8/16/90	13:30	X							X	X	X	X	X	X	X	X	L-1-13	
Equipment Blank		8/16/90	13:30	X															E-027	
Trip Blank																			T-038	
Relinquished By: (Sig) <i>Misty Gelton</i>		Date/Time 8/17/90	Received by: (Sig) <i>Steve Bursbach</i>		Relinquished by: (Sig) <i>Steve Bursbach</i>		Date/Time 8-17-90	Received by: (Sig) <i>Vann Ayo</i>												
Relinquished By: (Sig) <i>Vann Ayo</i>		Date/Time	Received by: (Sig)		Relinquished by: (Sig)		Date/Time	Received by: (Sig)												
Relinquished By: (Sig)		Date/Time	Received for Lab by: (Sig)		Date/Time	Sample Integrity:														

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

7/21/90

3719900820-01-004

02-004

03-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ00904 2) SJ00905 3) SJ00906 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Cleveland 2) E. Loden
M. Murillo

Date & Time 1) 8/20/90 2) 8/20/90 9:30a 3) 8/20/90 9:45a
Grab Samples: 4) / / 190 : 5) / / 190 : 6) / / 190 :
7) / / 190 : 8) / / 190 : 9) / / 190 : 10) / / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: ~~Well~~ trap Volume: 0.04 Liters
2) 02 - PVLF - HCPW Type: Well equip Volume: 0.24 Liters
3) 02 - PVLF - HCPW Type: Well Volume: 0.24 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) trap blank; FI: T-041
2) equip blank; FI: E-02B
3) RFB22, 100', FI: B22-7
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of ^{containers} Samples: 13 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) —
2) —
3) —
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: only partial sample obtained for RFB22, no QA assigned *gnmt*

Brenda Please Review

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS	
SAMPLER(S): (Signature)					(Printed)					Final Sample Disposition														
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Anal. Lab	Back to Site	Extruded														
B-22	100'	8-20-90	945	X				X			6*				X							B-22-7		
Equipment Blank		8-20-90	950	X				X			6											E-028		
Trip Blank		8-20-90		X							1											T-041		
																							* not enough sample to fill complete set of water sample containers	
																								* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na
Relinquished By: (Sig)		Date/Time		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)													
<i>Alan Maior</i>		8-21-90 845		<i>Steve Beerbank</i>			<i>Steve Beerbank</i>		8-21-90 10:30		<i>Vanna Oyo</i>													
Relinquished By: (Sig)		Date/Time		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)													
<i>Vanna Oyo</i>																								
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:															

8/22/90

03 00x
04-00x

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San José Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ01045 2) SJ0104 3) SJ01047 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge No.: 5066909 B 842 M. Murillo
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 8/21/90 12:00 2) 8/21/90 12:00 3) 8/21/90
Grab Samples: 4) / / 190 : 5) / / 190 : 6) / / 190 :
7) / / 190 : 8) / / 190 : 9) / / 190 : 10) / / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 8 Liters
2) 02 - PVLF - HCPW Type: Well equip Volume: 6 Liters
3) 02 - PVLF - HCPW Type: Well trip Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) L-2, 90', FI: L-2-13
2) equip. blank, FI: E-029
3) trip blank, FI: T-042
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Samples: 19 Containers Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: 257, 204, 301, 102, 101
2) -
3) -
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst:

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature)						SAMPLER(S): (Printed)																		
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
									Anal. Lab	Back to Site	Extruded													
L-2	90'	8-21-90	1200	X				X				10	X	X	X	X	X	X	X	X	X	L-2-13		
Equipment Blk		8-21-90	1200	X								8										E-029		
Trip Blk		8-21-90		X								1										T-042		
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 8-22-90 10:00	Received by: (Sig) <i>Steve Burbach</i>		Relinquished by: (Sig) <i>Steve Burbach</i>		Date/Time 8-22-90 11:47	Received by: (Sig) <i>Vana Ayo</i>																
Relinquished By: (Sig) <i>Vana Ayo</i>		Date/Time	Received by: (Sig)		Relinquished by: (Sig)		Date/Time	Received by: (Sig)																
Relinquished By: (Sig)		Date/Time	Received for Lab by: (Sig)		Date/Time	Sample Integrity:																		

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 01420 2) SJ 01121 3) SJ 01122 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 8/22/90 9:26 2) 8/22/90 9:20 3) 8/22/90
Grab Samples: 4) / /90 : 5) / /90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well equip Volume: 8 Liters
3) 02 - PVLF - HCPW Type: Well tap Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB 29, 104', FI: B-29-7
2) Equip Blank, FI: E-030
3) Trip Blank, FI: T-043
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for oil & grease
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst:

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>Alan Mair</i>								(Printed) Alan Mair											
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition											
								Anal. Lab	Back to Site	Extruded									
B-29	104'	8-22-90	9:20	X				X											B-29-7
Equipment Blank		8-22-90	9:20	X				X											E-030
Trip Blank		8-22-90		X															T-043
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 8-23-90 1000		Received by: (Sig) <i>Steve Brubaker</i>				Relinquished by: (Sig) <i>Steve Brubaker</i>		Date/Time 8-23-90 11:30		Received by: (Sig) <i>Bob E Bell</i>							
Relinquished By: (Sig) <i>Bob E Bell</i>		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)							
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:									

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

03-004
04-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ01458 2) SJ01459 3) SJ01460 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 8/28/90 9:30 2) 8/28/90 9:30 3) 8/28/90 :
Grab Samples: 4) / /90 : 5) / /90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 4.24 Liters
3) 02 - PVLF - HCPW Type: Well Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) B31, 107', FI: B31-14
2) equipment blank; FI: E-031
3) trap blank, FI: T-046
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) split for EPA 601 & 602
2) -
3) -
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: _____

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature) <i>Alan Mair</i>										(Printed) Alan Mair																				
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																						
								Anal. Lab	Back to Site	Extruded																				
B-20	50'	8-27-90	1330	X				X			10	X	X	X	X	X	X	X	X	X	X	20 B-20-5								
Equipment Blank		8-27-90	930	X							8											E-032								
Trip Blank		8-27-90		X							1											1-047								
											* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																			
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 8-30-90 11:35		Received by: (Sig) <i>Vann Ayo</i>				Relinquished by: (Sig) <i>Vann Ayo</i>		Date/Time 8-30-90 11:35		Received by: (Sig)																		
Relinquished By: (Sig)		Date/Time		Received by: (Sig)				Relinquished by: (Sig)		Date/Time		Received by: (Sig)																		
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:																				

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ01739 2) SJ01740 3) SJ01741 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden
M. Murillo

Date & Time 1) 9/4/90 14:50 2) 9/4/90 14:50 3) 9/4/90
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 7 Liters
2) 02 - PVLF - HCPW Type: Well *140* Volume: 5 Liters
3) 02 - PVLF - HCPW Type: Well *trip* Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFD20, 48.6', FI: B20-6
2) equip blank, FI: E-034
3) trip blank, FI: T-049
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of ^{Containers} Samples: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for metals
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

Brenda Nease Review

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJO2143 2) SJO2144 3) SJO2145 4) SJO2146 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 9/11/190 15:00 2) 9/11/190 12:30 3) 9/11/190 15:00
Grab Samples: 4) 9/11/190 12:30 5) 1/190 6) 1/190
7) 1/190 8) 1/190 9) 1/190 10) 1/190

Sample Locations:	Type:	Volume:	Liters
1) 02 - PVLF - HCPW	Well	10	
2) 02 - PVLF - HCPW	Well	10	
3) 02 - PVLF - HCPW	Well	8	
4) 02 - PVLF - HCPW	Well	8	
5) 02 - PVLF - HCPW	Well		
6) 02 - PVLF - HCPW	Well		
7) 02 - PVLF - HCPW	Well		
8) 02 - PVLF - HCPW	Well		
9) 02 - PVLF - HCPW	Well		
10) 02 - PVLF - HCPW	Well		

Descriptions: 1) B24, 143 S FI: B24-11
2) B25, 95-105', FI: B25-9
3) equip blank, FI: E-035
4) equip blank FI: F-036
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Samples: 38 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Split for 257, 204, 301, 102, 101, 108
2) QA: EPA 8140 & 8620
3) 621 622
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

Brenda Nease Review

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

CHAIN OF CUSTODY RECORD-WATER SAMPLES

Lab Name San Jose Creek Labo.

PROJECT NUMBER 153842-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation			SAMPLER(S): (Signature) <i>Lisa A. Havers</i>		SAMPLER(S): (Printed) Lisa A. Havers														
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition	Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS	
																					Anal. Lab
B-24	1435	9/11	1500	X				X	11	X	X	X	X	X	X	X	X	X	X	X	B-24-11
B-25	15-108'	9/11	1230	X				X	8	X	X	X	X	X	X	X	X	X	X	X	B-25-9
B-24	80'	9/11	1500	X				X	8	X	X	X	X	X	X	X	X	X	X	X	E-035
B-25	80'	9/11	1230	X				X	8	X	X	X	X	X	X	X	X	X	X	X	E-036
* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																					
Relinquished By: (Sig) <i>Lisa A. Havers</i>		Date/Time 9/14/90 10:00am		Received by: (Sig) <i>Steve Burkhead</i>		Date/Time 9/12/90		Relinquished by: (Sig) <i>Steve Burkhead</i>		Date/Time 11/95		Received by: (Sig) <i>Janet Perry</i>									
Relinquished By: (Sig) "		Date/Time		Received for Lab by: (Sig)		Date/Time		Relinquished by: (Sig)		Date/Time		Received by: (Sig)									
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)		Date/Time		Relinquished by: (Sig)		Date/Time		Received by: (Sig)									

J-419192

- 04-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ02208 2) SJ02209 3) SJ 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 9/12/90 13:30 2) 9/12/90 13:30 3) / / 90 :
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 8 Liters
3) 02 - PVLF - HCPW Type: Well Volume: Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB 26, 56', FI: B26-11
2) ~~RFB~~ equip: blank. FI: E-037
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Containers: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: EPA 601E602
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: _____

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation							Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>JL Havens</i> (Printed) Lisa Havens																				
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition												
								Anal. Lab	Back to Site	Extruded										
B-26	56'	9/12	1330	X				X				X	X	X	X	X	X	X	X	B-26-11
B-26	56'	9/12	1330	X				X												E-037
Relinquished By: (Sig) <i>JL Havens</i>		Date/Time 9/13/99 9:30 AM		Received by: (Sig) <i>Steu Beurbach</i>		Relinquished by: (Sig) <i>Steu Beurbach</i>		Date/Time 9-13 10:32		Received by: (Sig) <i>Vann Ayo</i>		* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na								
Relinquished By: (Sig) <i>Vann Ayo</i>		Date/Time		Received by: (Sig)		Relinquished by: (Sig)		Date/Time		Received by: (Sig)										
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)		Date/Time		Sample Integrity:												

LA 9/18/90

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 02424 2) SJ 02423 3) SJ 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 9/17/90 16:30 2) 9/17/90 16:00 3) / / 90 :
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 8 Liters
3) 02 - PVLF - HCPW Type: Well Volume: Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) L-3, 55-60', FI: L-3-11
2) equip blank, FI: E-038
3)
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 18 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: EPA 625
2)
3)
4)
5)
6)
7)
8)
9)
10)

Notes to Analyst: Sample L-3-11 is quite silty, call if problems occur
No trap blank

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>JL Havens</i>								(Printed) <i>Lisa Havens</i>															
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition															
								Anal. Lab	Back to Site	Extruded													
L-3	55-60'	9/7	1600	X				X			10	X	X	X	X	X	X	X	X	X	X	L-3-11	
Equip	Blank	9/7	1600	X				X			8											E-038	
Relinquished By: (Sig) <i>JL Havens</i>		Date/Time 9/15/90 9:00am		Received by: (Sig) <i>Steve Burbank</i>			Relinquished by: (Sig) <i>Steve Burbank</i>		Date/Time 9-18-90 12:27		Received by: (Sig) <i>Vann Arzu</i>												
Relinquished By: (Sig) <i>Vann Arzu</i>		Date/Time 9-18-90 14:10		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:														

* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ02486 2) SJ02487 3) SJ02488 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Loden

Date & Time 1) 9/18/90 15:20 2) 9/18/90 14:45 3) 9/18/90
Grab Samples: 4) / /90 : 5) / /90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations:	Type:	Volume:	Liters
1) 02 - PVLF - HCPW	Well	8	
2) 02 - PVLF - HCPW	Well-equip	6	
3) 02 - PVLF - HCPW	Well	0.14	
4) 02 - PVLF - HCPW	Well		
5) 02 - PVLF - HCPW	Well		
6) 02 - PVLF - HCPW	Well		
7) 02 - PVLF - HCPW	Well		
8) 02 - PVLF - HCPW	Well		
9) 02 - PVLF - HCPW	Well		
10) 02 - PVLF - HCPW	Well		

Descriptions: 1) RFB26, 65-70' FI: B26-11
2) equipment blank: FI: E-034
3) trip blank, FI: F-055
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Containers 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) PA metals
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: Sample B26-11 is quite silty, call if problems occur

Brenda Nease Review

HERZOG ASSOCIATES
 1318 Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labor

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation										Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS								
SAMPLER(S): (Signature) <i>JL Havens</i>										(Printed) <i>Lisa Havens</i>																					
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																							
								Anal. Lab	Back to Site	Extruded																					
B-26	65-70'	9/8	1600	X				X			10	X	X	X	X	X	X	X	X	X	X	X	R26-12								
Equip	Blank	9/8	1600	X				X			8												E-039								
Trip	Blank	9/8		X				X			1												T-055								
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na																			
Relinquished By: (Sig) <i>JL Havens</i>			Date/Time 9/9/90 10:00AM		Received by: (Sig) <i>Steve Purbach</i>			Relinquished by: (Sig) <i>Steve Purbach</i>		Date/Time 9-19 11:07		Received by: (Sig) <i>Vanni Ayco</i>																			
Relinquished By: (Sig) <i>Vanni Ayco</i>			Date/Time 9/19/90		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)																			
Relinquished By: (Sig)			Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:																					

02 00
03 00

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 02982 2) SJ 02983 3) SJ 02984 4) SJ _____ 5) SJ _____
 6) SJ _____ 7) SJ _____ 8) SJ _____ 9) SJ _____ 10) SJ _____

Charge No.: 5066909 B 842 M. Munillo
 Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 9/26/90 8:30 2) 9/26/90 8:30 3) 9/26/90 _____
 Grab Samples: 4) 1/90 : _____ 5) 1/90 : _____ 6) 1/90 : _____
 7) 1/90 : _____ 8) 1/90 : _____ 9) 1/90 : _____ 10) 1/90 : _____

Sample Locations:	1) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: <u>8</u>	Liters
	2) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well pump</u>	Volume: <u>6</u>	Liters
	3) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well trip</u>	Volume: <u>0.04</u>	Liters
	4) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	5) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	6) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	7) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	8) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	9) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters
	10) <u>02</u> - <u>PVLF</u> - <u>HCPW</u>	Type: <u>Well</u>	Volume: _____	Liters

Descriptions: 1) BZA, 140' FI: BZA-12
 2) Equipment blank, FI: E-040
 3) Trip blank FI: T-061
 4) _____
 5) _____
 6) _____
 7) _____
 8) _____
 9) _____
 10) _____

 Project No.: 673 No. of ^{Containers} Samples: 19 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) QA: 257, 204, 301, 102, 101
 2) _____
 3) _____
 4) _____
 5) _____
 6) _____
 7) _____
 8) _____
 9) _____
 10) _____

Notes to Analyst: Oil & grease containers for sample BZA-12 have been acidified w/ HNO₃ to a pH of 4.0 (approx). Call if problem. Additionally, sample is somewhat silty.

HERZOG ASSOCIATES
 1318 Redwood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Laboratory

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 153842-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature)								SAMPLER(S): (Printed)																
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
								Anal. Lab	Back to Site	Extruded														
B-24	140'	9-26-90	930	X				X				10	X	X	X	X	X	X	X	X	X	B-24-12		
Equipment Blank		9-26-90	830	X								8										E-040		
Trip Blank		9-26-90		X								1										T-061		
																						Oil & Grease samples have been acidified w/ HNO ₃ to pH ~ 4.0		
																						* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na		
Relinquished By: (Sig)		Date/Time		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)													
<i>Alan Mais</i>		9-27-90 920		<i>[Signature]</i>			<i>[Signature]</i>																	
Relinquished By: (Sig)		Date/Time		Received by: (Sig)			Relinquished by: (Sig)		Date/Time		Received by: (Sig)													
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)			Date/Time		Sample Integrity:															

10/1/90 12.50

03-003
04-004
05-004

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ03148 2) SJ03149 3) SJ03150 4) SJ03151 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge No.: 5066909 B 842 M. Murillo
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 9/28/90 11:25 2) 9/28/90 11:45 3) 9/28/90 9:15
Grab Samples: 4) 9/28/90 : 5) / /90 : 6) / /90 :
7) / /90 : 8) / /90 : 9) / /90 : 10) / /90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
3) 02 - PVLF - HCPW Type: Well^{guy} Volume: 8 Liters
4) 02 - PVLF - HCPW Type: Well^{guy} Volume: 0.04 Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) RFB25, 75' FI: B25-13
2) RFB25, 75' FI: B25-14
3) equipment blank, FI: E-0A1
4) trip blank FI: F-062
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Samples: ^{Containers} 29 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) All QA tests ^{No QA 625} ^{Oil-Grease 6000s} ^{NO QA metab. metals dig.}
2) All split tests
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: Note - sample ~~13~~ 14 ^{is} a field duplicate of sample 13
All tests will be assigned to assure 100% replication of assigned tests. Call if problems.

HERZOG ASSOCIATES
 1318 F Wood Way, Suite 200
 Petaluma, CA 94954
 707-792-5600

Lab Name San Jose Creek Labo. y

CHAIN OF CUSTODY RECORD-WATER SAMPLES

PROJECT NUMBER 15384.2-0-7		PROJECT NAME Palos Verdes Landfill Hydrogeological Investigation											Number of Containers	22 metals suite*	pH, Spec. Cond., Chloride	nitrate, sulfate, TDS	soluble COD, BOD	TPH -8015 modified	Oil & Grease-413.1	Mg & Ca hardness	Chlor. Hydros.-601,602,625	Aromatic Vol. Org.-601,602	Hal. Vol. Org.-601,602,625	LOCATION/ REMARKS
SAMPLER(S): (Signature) <i>Alan Mair</i>		SAMPLER(S): (Printed) <i>Alan Mair</i>																						
Boring/well Number	Depth	Date	Time	Water	Grab	Tube	Air	Final Sample Disposition																
		Anal. Lab	Back to Site	Extruded																				
B-25	75'	9/29/90	1125	X				X				10	X	X	X	X	X	X	X	X	X	X	B-25-13	
B-25	75'	9/29/90	1145	X				X				10	X	X	X	X	X	X	X	X	X	X	B-25-14	
Equipment Blank		9/29/90	915	X								8											E-DUPLICATE-041	
Trip Blank		9/29/90		X								1											T-062	
												* metals include: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, Ca, Fe, Mg, Mn, K, and Na												
Relinquished By: (Sig) <i>Alan Mair</i>		Date/Time 10-1-90 1000		Received by: (Sig) <i>John Howe</i>				Relinquished by: (Sig) <i>John Howe</i>		Date/Time Nov 10 1990		Received by: (Sig) <i>Van Oyo</i>												
Relinquished By: (Sig) <i>Van Oyo</i>		Date/Time 10-1-90		Received by: (Sig) X				Relinquished by: (Sig)		Date/Time		Received by: (Sig)												
Relinquished By: (Sig)		Date/Time		Received for Lab by: (Sig)				Date/Time		Sample Integrity:														

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ03530 2) SJ03531 3) SJ03532 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) M. Murillo 2) E. Laden

Date & Time 1) 10/5/90 8:30 2) 10/5/90 8:00 3) 10/5/90 :
Grab Samples: 4) / / 90 : 5) / / 90 : 6) / / 90 :
7) / / 90 : 8) / / 90 : 9) / / 90 : 10) / / 90 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Volume: 10 Liters
2) 02 - PVLF - HCPW Type: Well equ Volume: 6 Liters
3) 02 - PVLF - HCPW Type: Well top Volume: 0.04 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) L-3, 53, FI: L-3-26
2) Equipment blank, FI: F-042
3) Trip blank, FI: T-043
4)
5)
6)
7)
8)
9)
10)

Project No.: 673 No. of Containers: 22 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) Do all splits (Oil & grease, EPA vol + 602, EPA 625, metals, 257, 304, 301,
2) _____
3) _____
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: I'm pretty sure there are enough sample in
proper containers. Please call if problems exist.

Thanks

- I realize that I just assigned the same series of tests.
The next assignments are by request of Mary Jacobs, project manager.

Los Angeles County Sanitation Districts
Palos Verdes Remedial Investigation / Feasibility Study
San Jose Creek Water Quality Laboratory
Sample Request Form / Chain of Custody Record

Lab Job Nos.: 1) SJ 03685 2) SJ 03686 3) SJ 03687 4) SJ 5) SJ
6) SJ 7) SJ 8) SJ 9) SJ 10) SJ

Charge Nos.: 1) 5066909 B 842 2) B 3) B
Requested By: M. Jacobs Report to: 1) J. Copeland 2) E. Laden

Date & Time 1) 10/9/90 : 2) 10/9/90 10:15 3) 10/9/90 13:30
Grab Samples: 4) / 190 : 5) / 190 : 6) / 190 :
7) / 190 : 8) / 190 : 9) / 190 : 10) / 190 :

Sample Locations: 1) 02 - PVLF - HCPW Type: Well Trip Volume: .04 Liters
2) 02 - PVLF - HCPW Type: Well Equip. Volume: 10 Liters
3) 02 - PVLF - HCPW Type: Well Volume: 15 Liters
4) 02 - PVLF - HCPW Type: Well Volume: Liters
5) 02 - PVLF - HCPW Type: Well Volume: Liters
6) 02 - PVLF - HCPW Type: Well Volume: Liters
7) 02 - PVLF - HCPW Type: Well Volume: Liters
8) 02 - PVLF - HCPW Type: Well Volume: Liters
9) 02 - PVLF - HCPW Type: Well Volume: Liters
10) 02 - PVLF - HCPW Type: Well Volume: Liters

Descriptions: 1) Trip Blank ; FI ; T-064
2) Equip. Blank ; FI ; E-043
3) B-219, 95', FI ; B29-19
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Project No.: 673 No. of Samples: 32 Project Title: PVLF RI/FS

ADDITIONAL TESTS REQUIRED:

Sample: 1) -
2) -
3) Do all QA tests: EPA 601 & 602, EPA 625, metals 257, 204, 301, 102, 101
4) _____
5) _____
6) _____
7) _____
8) _____
9) _____
10) _____

Notes to Analyst: I will be @ Districts today x24/7; please call if problems

Brenda Please Review

