



**Environmental Protection** 

#### Department of Toxic Substances Control



Barbara A. Lee, Director 8800 Cal Center Drive Sacramento, California 95826-3200

February 2, 2017

Mr. Arthur Forma 3043 Gold Canal Drive, Suite 100 Rancho Cordova, California 95670

FINAL TARGETED SITE INVESTIGATION WORKPLAN, DECEMBER 2016, CRESCENT MILLS INDUSTRIAL SITE, PLUMAS COUNTY, CALIFORNIA

Dear Mr. Forma:

The Department of Toxic Substances Control (DTSC) has reviewed the revised December 2016 Targeted Site Investigation (TSI) Work Plan (Report), Crescent Mills Industrial Site (Site), prepared by Geosyntec under Contract No. 16-T4205, Work Order No. 1-205-1.0-102305. The Site is located along California Highway 89 in Crescent Mills, Plumas County, California. The Site consists of approximately 26.27 acres of property, within three (3) parcels identified by Plumas County Assessor's Parcel Numbers (APNs) 111-050-065, 111-050-066, and 111-050-067.

The Site was initially developed as a lumber mill in the late 1940s and was purchased by Louisiana Pacific (LP) in the early 1970s. The Site was expanded until operations ceased in 1986. The objective of the investigation is to further characterize the extent of contamination that may have originated from past operations at the Site. The chemicals of concern are total petroleum hydrocarbons as diesel, gasoline and oil, volatile organic compounds, pentachlorophenol, arsenic, metals, carbamates pesticides, and dioxins/furans. Since the revised Report addresses DTSC comments, DTSC concurs with the Report.

Mr. Arthur Forma February 2, 2017 Page 2

Geosyntec is scheduled to be in the field the week of February 6 – February 10, 2017 to implement the Report. If you have any questions, please contact me at (916) 255-3745.

Sincerely,

Melessia Downham Project Manager

Brownfields and Environmental Restoration Program

Melina Demhan

cc: Mr. Peter Dennehy, P.G. 3043 Gold Canal Drive, Suite 100

Rancho Cordova, California 95670

Mr. Jerry Sipe Plumas County Environmental Health 270 County Hospital Road #127 Quincy, California 95971

Ms. Camille Swezy Sierra Institute for Community and Environment 4438 Main Street P.O. Box 11 Taylorsville, California 95983

Mr. Steven Becker, P.G., Chief (Sent via email)
Site Evaluation and Remediation Unit
Cleanup Program – Sacramento Office
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200



#### PLUMAS COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

270 COUNTY HOSPITAL RD., Ste 127 QUINCY, CALIFORNIA 95971 530-283-6355

#### APPLICATION FOR PERMIT TO DRILL A SOIL BORING

APPLICATION VALID FOR ONE YEAR ONLY

PPLICA	MIS	NAME				Dei			-		-	_					_		_			_				-		100	
ARCEL NO. & AREA APN 111-050-065, -066, and -067																						95	670						
											_		PH	ONE	91	16-63	7-83	41											
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		-	11.00																_										



#### ENVIRONMENTAL HEALTH COUNTY OF PLUMAS

270 County Hospital Rd., Ste 127, Quincy CA 95971

Phone: 530-283-6355 FAX 530-283-6241

Owner: Peter Dennehy

3043 Gold Canal Drive Rancho Cordova, CA 95670

Contractor: Cascade Drilling

Mailing Address: 3632 Omec Cir

Rancho Cordova, CA 95742

Job Site Address: Crescent Mills, CA Type Of Permit: SOIL BORING

No. of Borings: 14

Permit No: 16-122716

Permit Expires: n/a Cell Phone: N/A

Bus. Phone: (916) 637-8341

FAX No:

Bus. Phone: (916) 638-1169

FAX No:

Parcel No: 115-160-002/003

Description of Work - Soil Boring

#### THIS PERMIT AUTHORIZES APPLICATION FOR SOIL BORING

#### **Installation Detail:**

Surface Seal Depth:

Entire Hole

Material:

Cement Based

No. of borings

14

#### **Standard Installation Instructions:**

- 1. Maintain all applicable setbacks
- 2. See Approved Plot Plan for installation location
- 3. Install system according to Approved Plot Plan as noted.
- Contact Environmental Health before changing location

#### **Inspection of Work Instructions:**

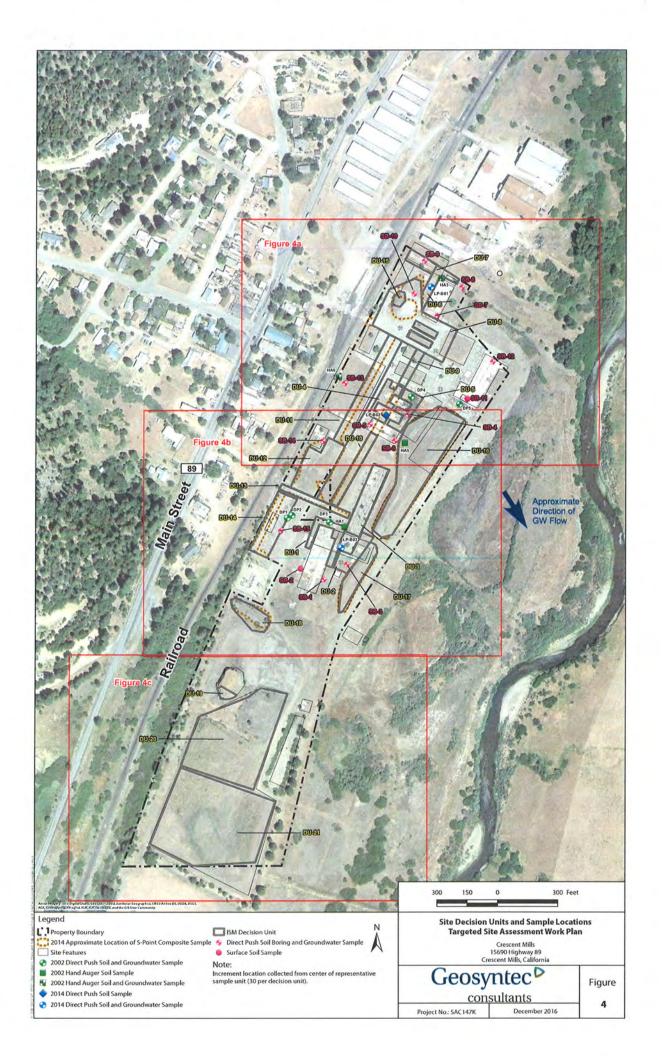
Before sealing the well, contact Environmental Health to schedule an inspection. Twenty- four (24) hour notice is 1. REQUIRED.

PLUMAS COUNTY ENVIRONMENTAL HEALTH

By:

Date:

December 29, 2016



### Daily Field Log

1111 Broadway , Floor 6 Oakland, California 94607 PH 510.285.2700 FAX 510.836.3036

Project Name: DT3C	Cresci	Project Number: SAC 147K Page ( of )
Date: 2/6/17	Location:	Crescert Mills, CALogged By: P. Derwelry
Weather Conditions:	andy	scattered ran, 40°5-50°5
Tailgate Safety Meeting Time:	1030	Contractor: Cascade, so then

Personnel: Name	Company	Time In	Time Out
Peter Dennely	GOSYNTEC	0630	1715
orin Regill.	J 11	0430	1715
Bill Mostivez	DISC	1015	2 230
LOTA JOHN SOM	"	1015	~1230
Pierre	Subtranic	1015	1700
Rodrigo Carlo	Cascade	1015	1715
Ernosto Jasso	Cascade	10:5	1715

Time	Activities
0830-01-5it	to Health and safety briefing of a Regier
walke	of site and marked doring locations
DUSE	such that no utility matking were at
the s	STE
1015-Coutra	getars and DTSC on-site
1030 HAS ta	algate, meeting-see seperate form
1100-Start	of stilling of 153-15 Started geophysical
surve	Fuse the sing that to note. Use twell in
1120-04 DD	be for you sampling appeared to masturation
	102 months of China substantially - 2055
	werents orifting substantially - poss
1300-0100	y connection for SB-6 was Flooded.
Atto Mort	ed to advance bonng inside ramp with
71112	auger Hit refusal on carcrete 2'895.
1545 - ANU	arked SB-6 nior from planned pocution
ALA ALA	HC NP OF THAN
1900- calil	rated of metas - ft 4 sold pading 3.55
PH	7 reading 7.19, pt 10 reading 10.18
1600 - sub	France identified pipe or small ust at NE
corner	of mantenance shap

Copy to:	Total Hrs.:	Signature:	

### Daily Field Log

1111 Broadway., Floor 6 Oakland, California 94607 PH 510,285,2700 FAX 510,836 3036

Project Name: LTES	cent hills	Project Number:	SAC 147K Page 1 of 1
Date: 4717	Location: C	exent Mills	Logged By: P. Dennehu
Weather Conditions:	Rainy win	dy 4005	
Tailgate Safety Meeting T	ime: 0200		Contractor: Cascado

Company	Time In	Time Out
6e0 syntec	6700	1600
Seosyntec	0700	1730
Cascade	19700	1700
cascade	0700	1700
Cascalle	0.7	170
	Geosyntec Geosyntec Cascade	Geosyntec 10700 Seosyntec 0700 Cascade 0700

Time	Activities
0830-1Atte	reced foring SB-10- no water recovery cottelling cosing to 9' of 21 pulled to 5' enerted to dig to possible pipe or ust corner of maintenance shop.  Tefusal on boulder/cenant layer at 595. Adjusted 58-8 so that it was downgradien
Americ	Ism and soil boring locations adjusted in avail standing water, concrete foundation on struction debris. Ism sample boundaries had the same.

Copy to:	Total Hrs.:	Signature:	

### Daily Field Log

1111 Broadway , Floor 6 Oakland, California 94607 PH 510 285 2700 FAX 510 836 3036

Project Name: Les cer	A Mills	Project Number		
Date: 2/8/17	Location: CTR	scent Mill	(A) Logged By:	P. Dennetus
Weather Conditions:	Rain, 403	-50°5		
Tailgate Safety Meeting Time:	8700		Contractor:	Inscade

Personnel: Name	Company	Time In	Time Out
P. Dennehu	Gersyntec	0200	1538
A. Regier	Geosyntec Geosyntec	1	1700
Ernesto	cascade		
Altorto Rodrigo	cascade		l.
0			

Time	Activities
0700-0n-5	site. Corducted HAS tailgate
0730-511 Adjus	wificant standing water in sorter/stacker Du. ted barings to locations that were dry.
1500-collec	ted equipment blank aff of deconied drillers shoe.
1100-Plum 505 0 Instp	us county Etti) rep Pat Sanders stapped by site rout inspection. Hadn't started growting borings bucked to coll when we were going to start
	mely off-site to drop samples at ups

lo ,		
Copy to:	Total Hrs.:	Signature:

### Daily Field Log

1111 Broadway., Floor 6 Oakland, California 94607 PH 510 285, 2700 FAX 510 836, 3036

Project Name: Crescert	- WI(s	Project Number:	SAC 147 K	Page ( of
Date: 2/9/17	Location:	crescent Mills,	A Logged By:	F. Dennemy
Weather Conditions: Roin,	4005-	50'5		1
Tailgate Safety Meeting Time:			Contractor: C	ascade

Personnel: Name	Company	Time In	Time Out
P. Dennehy	Geosportec	0700	1630
P. Dennehy O. Rogier	. ]		
	cascade		
Rodrigo	۶,		1
1			

Time Activities
1015 - Scale stopped working. PD to durney to get new one.
1015 - Scale stopped working, po to duincy to get new
1130-Broke for lunch
1245- Collected Du-16-1-3. Practical retural w/ shore!
1245- Collected Du-16-1-3. Practical refusal w/ shore! at z' bgs throughout DW.
Beneral note: Collected soil stockpill simples w/ shove
and ISM probl. Shove to get to depth probe to
beneral note: Collected soil stockpile samples w/ shovel and ISM probe. Shove to get to depth probe to collect fresh sample if possible-if not shove.
1300- Du-10 Acoded w/ 1 ft of water-not sampling
1300 General soil characteristics of soil stockpiles
Du-h mix of class to cophes
ourse mostly opholes arabat
Du-19- 10am
Du-20 - Adjusted location to only include grave
pile, mid Sebris metal, w/ sit
Du-21 - Adjusted to only include silt and day wetland
that was elevated and not flooded
Du-12 - mix of clay to cobbles  Du-13 - mostly cobbles, gravel, and bark  Du-19 - coam  Du-20 - Adjusted to only include gravel  Du-21 - Adjusted to only include silt and clay wetland  that was elevated and not flooded  1500-collected EB off shove and probe for most analytes and off  Copy to:  1615-0ff-site, Roads was hed out by knostiles stranded in  1630 Granville.
Convitor Single For 18015 M. Signature:
copy to.
HOTS-OFF-SITE, ROADS WAS NOT OUT OUT WOSTOGS STRUCTED IN
1630 Grannille.

### **Daily Field Report**

1111 Broadway, 6Th Floor Oakland, California 94607 PH 510 836 3034 FAX 510 836 3036

Project Name: DTSC (RSCent Mills Project Number: SAC (47k Page ) of 1

Date: 2/10/17 Location: (RSCENT Mills, CA Logged By: P, Denuchy

Time	Activities
0900-on-	Site. O. Regier (Geosyntec), Eduardothodrigo (cascad) Stailgate
0915-HA	5 tail gate
0930-52+	-up to advance borings for Arsenic backgrow
side	of site Cost sich of site Flooded
M930- 500	ke w/ Dat sanders from Plymas country
EHD	Hart not growted parings, some unaccesió
Sue.	to water. Instructions were to growt
boni	igs about water level and cover letters
1000 1011	of site. East side of site flooded.  Ke w/ Pat sanders from Plumas country  Had not growted borings, some unaccessed  to water. Instructions were to growt  rgs about water level and cover others  out of tripping hazards.  acted EB Off drilling shoe for arsenic.
1000 - COTTA	anced lox borings to 10' bgs in order to
MATOR	id. Borings in Jary was along E Fence
link	arsenic background samples in native ial. Borings in dry areas along E Fence
10/1- Clear	ad up site to mobilize. Corours accessible con
Buma.	Greenville. Only road out is to susawille - fortales
000-10	1 11000 1 1000 1
.1 1 0	0-11-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-
Note: 3	2 soil drums, I gw drum.
100015.	2 Soll di unis, I gu di um.
-	

### **Daily Field Log**

1111 Broadway , Floor 6 Oakland, California 94607 PH 510 285 2700 FAX 510 836 3036

Project Name: Cresce	nt mills F	Project Number: SACI47K Page ( of Q
Date: 3/29/17 (W)	Location: Cres	cent Mills Logged By: 8-D7.
Weather Conditions:	Sunny	& Warm
Tailgate Safety Meeting Time:	NIA	Contractor: N/A

Personnel: Name	Company	Time In	Time Out
Orin Kegjer	Geosyntec.	900	1930

Time	Activities
900	Orin On-Site but Gate Locked Orin ages to buy bult cutters in
	Orin ages to Duy but cutters in
21.7	Greeneville.
945	Greeneville. Chain on Gate Cent Orin Mobs to ISM Location & segins
	to ISM Location & begins
101	marking locations;
1015	marking locations i Locations marked begin decon of hand auger & shove.
1020	of hand auger & Shovel.
1030	Collect Eb-1
1100	segm sample Collection of DU-a-0.5-1.0
6	30 last timpling - Collect sogram sample
6	Begin sample Collection of DU-2-0.5-1.0 (ISM Sampling > Collect Byram sample 2 30 locations for a total sample weight
1230 N	VE corner of Grid= 40° 5' 33" N 120° 54' 43" W VE Corner of Grid= 40° 5' 33.54" N 120° 54' 43.03" W
12401	JE Corner of Grid= 40° 5 33.54" N 120° 54 43.03" W
12451	VW Corner of Grid=40° 5'33.59"IN 120° 54' 43.42" W
	E Corner of Grid=40° 5'27.84"N 120° 54 45.63" W
	W Corner of Grid = 40° 5' 27, 94" N 120° 54' 46,03 W
	Grid Coordinates WGS 84
1300	Orin takes Lunch
1330	Orin takes Lunch Orin MOBS to SPH 072 513-20
1345	Collect Soil Sample 50 05-10 OR
4	Collect Soil Sample 5B 05-10 OR Collect Sample 5B-20-0.5-10
3	3B Coordinates 40°5' 32,72"N 120°54' 39.48" W

Copy to:	Total Hrs.:	Signature:	V. 12

### **Daily Field Report**

1111 Broadway, 6Th Floor Oakland, California 94607 PH 510 836 3034 FAX 510 836 3036

Project Name:	Cruscen	tmills	Project Number: 5AC147K	Page Q of Q
Date: 3/29	W) FI	)Location: Cre	Project Number: 5AC147K	DIZ.

Time	Activities
1410	Collect Sample 5B-19-05-1.0
	SB-19 Coordinates 40°5'41. 84" N 120°54'37 0011
1430	Collect Sample 5B-18-05-10 -SB-18 coordinates 40'5'44.23"N 120"54'32.81"N
11445	-5B-18 coordinates 40'5'44.23"N 120'54'32.81"V
1445	Collect Scample 5B-17-0.5-1.0 5B-17 Coordinates=40°5'44.19"N 120°54'33.60W
1515	Collect Sample 5B-176-05-1.0
	5B-16 Coordinates 40"5 49.01" N 120 54 30.32
1545	on Deck Swood WELL DTW=5 110 ft btog
	supply well TD = 58 ft bloc (soft tag)
1600-	700 Drin tremmie grouts 53-1-533-15)
	And Cleans up Acetate liners
-	from PHASE IL Activities
1715	Orin Checks Buckets Near, SB-13
	and discovers one is filled w what appears
1	to be motor and the motor oil blicket
1000	re and bucket has a yellow cray
	xitly inside and Orin will discuss but
	Peter. (76) Label on cutside of bucket #2
10	Petel. (76) Label on cutside of bucket # 2
1930	Ovin successfully grants 53-10,7,12,4
	inable to locate other bornes
<	ie to flood, and animal burrous
	ock 5 combination = 19404
	2- Drums of IDW revigin on Site
1	Buckets remain along fence wear
	SB-13
	certate liners taken to Ranche
	cordova for disposal.
Y	riningal flooding remains @ north
	and of Site. Sperth end
	ery muddy w/ many areas is
ك.	standing H2P
	CITAL CHATE.

# Geosyntec Sand Gold Canal Drive, Ste 201 Rancho Cordova, CA 95670 PH: 916.637.8048 www.geosyntec.com

# LOG OF BORING SB-1 Page 1 of (

$\subseteq$										
L	oca	tion: (Te	SCE	ent,	Mills, CA	Project Name: SAC 1956 Mill	Project	Number	SA	C 47K
Start Date and Time: 2/8 12-30 Finish Date and Time: Total De						Total Depti	otal Depth Drilled (ft bgs):			
Drilling Method: Geoptobe DPT Drilli					60 DPT	Drilling Contractor: Cascade	Total Depti	Total Depth Cored (ft bgs):		
Drill Rig: 2200 Hammer Type: Boring Diameter (in): 2										
Sa	mpli	ng Method:				Hammer Weight/Drop:	Borehole E	Backfill:		
De	pth 1	to Water (ft	bgs):	1.5		Ground Surface Elevation (ft MSL):	Coordinate	es (X,Y):		
Co	mm	ents:					Logger:	PD	Re	eviewer:
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)		MATERIAL DESCRIPTION  E (USCS SYMBOL)  Color, Moisture, Grain Size and Peonsistency/Density, Other (Odor, Dry Strength, Mineral		PID Reading (ppm)	Time (00:00)	COMMENTS
		pone			6-10- 5-11+ 1-14-0	wet tan to dark use fill con le gravet. Fill con wat black to dark of cloup, little fies a gravel. H25-lit dor (sc)	sand,	1.0		

# Geosyntec 3043 Gold Canal Drive, Ste 201 Rancho Cordova, CA 95670 PH: 916,637,8048 www.geosyntec com

# LOG OF BORING 58-3 Page 1 of 1

Location:	25Cl1	1	Mills, CA	Project Name: SAC 143K	Project	Numbe	r: <b>S</b>	AC 147K
Start Date and Tim	ne: 7/8	Total Dept	h Drilled	(ft bgs	: 10			
Drilling Method:	1		1	Drilling Contractor: Cascade	Total Dept	h Cored	(ft bgs)	t .
Drill Rig: 2	100			Hammer Type:	Boring Dia	ameter (i	n): 2	
Sampling Method:				Hammer Weight/Drop:	Borehole	Backfill:		
Depth to Water (ft	bgs): (	Coordinates (X,Y):						
Comments: Logger:								leviewer:
Sample Interval Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)	0-2- 2-7- 2-7- 7-10- 11	MATERIAL DESCRIPTION  (USCS SYMBOL) Color, Moisture, Grain Size and Peonsistency/Density, Other (Odor, Dry Strength, Mineral  Brown wet organ  A Fill (GP)  Tan and green brown  sand and sith the gravel. Moist  wet green brown  ack sith and clay  the free sand, lith  rowel. (SC)	rcentage Content)  nics  own  ense  (SM)	PID Reading (ppm)	Time (00:00)	COMMENTS

# Geosyntec 3043 Gold Canal Drive, Ste 201 Rancho Cordova, CA 95670 PH: 916 637 8048 www.geosyntec com

## LOG OF BORING BOY

Loca	tion: (re	SCO	ent	Mills, ca	Project Name: (125CQ	A Mills	Project	Numb	er: 5	AC 147K)
	ate and Tim		12	1430	Finish Date and Time:		Total Dep	th Drilled	d (ft bgs	9: 15
Drilling	Method:	Sep	Dro	60 DPT	Drilling Contractor: Casc o	ede	Total Dep	th Corec	i (ft bgs	s):
Drill Ri		70	6		Hammer Type:		Boring Dia	ameter (	in):	2"
Sampli	ng Method:				Hammer Weight/Drop:		Borehole	Backfill:		
Depth	to Water (ft I	ogs):	10		Ground Surface Elevation (ft M	SL):	Coordinat	es (X,Y)	:	
Comm	ents:						Logger:	PD	F	Reviewer:
blasticity, Sample   Sample					MATERIAL DESCRIFE (USCS SYMBOL) Color, Moisture, onsistency/Density, Other (Odor, Dry	Grain Size and Pe Strength, Mineral	Content)	PID Reading (ppm)	Тіте (00:00)	COMMENTS
	HONE			0-5- 5-15- 11H	Moist Fill ( Wet, sitt an le gravel Res	SP) df-Cs Brow	iond,	0.14		trom 5-10.  No Gen in boring so advince to 15 855

3043 Gold Canal Drive, Ste 201 Rancho Cordova, CA 95670 PH: 916 637.8048

## LOG OF BORING 58-5

L			JIISU.	ıtallı	.3	www.geosyntec.com						
L	ocation: Crascent Mills CA Project Name: SAC 14 Crascent Project Number: SAC 147-K  art Date and Time: 2 1330 Finish Date and Time: Total Depth Drilled (ft bgs).											
Sta	art Da	ate and Tin	ne: 2	16	1330	Finish Date and Time:	(1)	Total Dept	h Drilled	d (ft bgs)	10	
Dri	lling	Method: (	500	200	Se DPT	Drilling Contractor:	ascade	Total Dept	h Cored	l (ft bgs)	:	
Dri	il Rig	7	70	ò		Hammer Type:		Boring Dia	meter (	in): 2	- "	
Sa	mplir	g Method				Hammer Weight/Drop:		Borehole	Backfill:			
De	pth to	o Water (ft	bgs):	1.6		Ground Surface Elevation (ft MSL): Coordinates (X,Y):				:		
Co	mme	nts:						Logger:	D	R	eviewer:	
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)		MATERIAL DE E (USCS SYMBOL): Color, M onsistency/Density, Other (O		Percentage, al Content)	PID Reading (ppm)	Тіте (00:00)	COMMENTS	
	3	-5			grav 5-10-	Moist to sand, si usl. Fill Wet, red y clay, the gravite	He ela (SP) po L brown little f-( (. (sc)	(sp)	0.2			

3043 Gold Canal Drive, Ste 201 Rancho Cordova, CA 95670 PH: 916.637.8048

www.geosyntec.com

# LOG OF BORING 53-6 Page 1 of 1

Start Hate a	nd Time: 🤈	1,	1145	Project Name: SAC Finish Date and Time	Project  Total Dep			
Orilling Met	7	16	1545	4				30
Drill Rig:	6	_ ~ 4	roba DPT	Drilling Contractor: (a Sca)	Boring Dia			211
Sampling M	十·	780	)	Hammer Weight/Drop:	Borehole			<i>L</i>
	iter (ft bgs):	5.	۲	Ground Surface Elevation (ft MSL):	Coordinat		_	
Comments:	iter (it bgs).	<i>&gt;</i> ·		Ground Surface Elevation (It MSE).	Logger:	PO	1	Reviewer:
Deptin (it bgs) Sample Interval	Sample ID and Type Blow Per 6 Inches	Sample Recovery (%)	SOIL NAME Plasticity, C	MATERIAL DESCRIPTION  E (USCS SYMBOL): Color, Moisture, Grain Sizionsistency/Density, Other (Odor, Dry Strength,	e and Percentage, Mineral Content)	PID Reading (ppm)	Time (00:00)	COMMENTS
3-			0-7- San Sil	- Browny moist, by little growel, t. Fill (SP)	F-C little			Boring collapsed beyond i

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# LOG OF BORING 58-7

	oca	tion: ( 🍗	cs e	ut.	Mills CA	Project Name: SAL 142K	Project	Numb	er: / _	occount wilk	
Start Date and Time: 2/7 1200 Finish Date and Time: Total Depth Drilled (ft bgs): 10 Drilling Method: Geography Drilling Contractor: Cascade Total Depth Cored (ft bgs):											
ı⊢	_		- 1			Drilling Contractor: Cascade	-			10	
	II Rig		700		De DI	Hammer Type:	Boring Di			0 0	
Sa	mplii	ng Method:				Hammer Weight/Drop:	Borehole	Backfill:			
De	pth t	o Water (ft I	ogs):	1.5	ó	Coordinates (X,Y):					
Со	mme	ents:		<u> </u>			Logger:	PD	R	Reviewer:	
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)		MATERIAL DESCRIPTION  E (USCS SYMBOL): Color, Moisture, Grain Size and Fonsistency/Density, Other (Odor, Dry Strength, Mineri	Percentage, al Content)	PID Reading (ppm)	Time (00:00)	COMMENTS	
		None			9-10- 50 U	Brown, wet, Fill Red brown, F-Cs we silt, little gr int (SA) (SM)	and,	0,9			

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## LOG OF BORING SB-8

_				ltant	- 10	www.geosyntec.com	( ) 10°	Page _			
		ate and Tim		ENT 2	Mills, 4	Project Name: (	inscent hi	Total Depti			
				750	be OFT	Drilling Contractor:	ascude	Total Dept	h Cored	(ft bgs)	
	II Rig	_	-MA	1.00	OC VI C	Hammer Type:	®	Boring Dia			, "
		ng Method:				Hammer Weight/Drop:	(D)	Borehole B	Backfill:		
_		o Water (ft	bgs):	0,6	2	Ground Surface Eleva	tion (ft MSL):	Coordinate	es (X,Y)		
		ents:		0				Logger: (	Q	R	Reviewer:
Deptin (it bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)		MATERIAL DE (USCS SYMBOL): Color, onsistency/Density, Other (	Moisture, Grain Size and F Odor, Dry Strength, Miner	Percentage al Content)	PID Reading (ppm)	Time (00:00)	COMMENTS
					17-10- San Cs	Brown a  Filt lin  Red brow  A little a  (SM	He grave	F-C grave			

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# LOG OF BORING SB-9 Page L of L

_					www.mgecoy.mar com							
Loca	Location: Crescent Mills, of Project Name: Brescent Mills Project Number: SAC 147K											
Start D	ate and Tim	ie: 2	17	1030	Finish Date and Time:	Total Dept	h Drilled	d (ft bgs	10			
Drilling	Method: (	5000	10	62.0PT	Drilling Contractor: Cascade	Total Dept	h Cored	` ,				
Drill Ri	: 77	00'			Hammer Type:	Boring Dia	meter (i	in):	2"			
Sampli	ng Method:				Hammer Weight/Drop:	Borehole B	Backfill:					
Depth	to Water (ft l	bgs):	1.2	-	Ground Surface Elevation (ft MSL): Coordinates (X,Y)							
Comments:						Logger:	60	R	deviewer:			
Sample Interval Sample ID and Type Blow Per 6 Inches Sample Recovery (%)					MATERIAL DESCRIPTION  (USCS SYMBOL): Color, Moisture, Grain Size and Ponsistency/Density, Other (Odor, Dry Strength, Minera	ercentage, I Content)	PID Reading (ppm)	Тіте (00:00)	COMMENTS			
	None			9-9- 4-10- San Gra	wet, brown fill- wet, red brown d, some silt, lite wel (sm)	(SP) F-C He	0.8					

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# LOG OF BORING SP-10 Page 1 of 1

$\succeq$		- C	10/	- 1	14311- 4	Marine Marine Constant Nation	Decis et l			1	
٢	tart Date and Time: 2/2 0800 Finish Date and Time: Total Depth Drilled (ft bgs): 10										
Sta	rt D	ate and Tim	e: 2	17	0800		Total Depth	Drille	d (ft bo	(s):   B	
Dri	lling	Method: (	Seof	100	BeDT	Drilling Contractor: Cascado	Total Depth	Core	d (ft bo	ıs):	
Dri	II Riç	g: 	7	70	Ò	Hammer Type:	Boring Diameter (in): 2 !/				
Sai	mpli	ng Method:				Hammer Weight/Drop:	Borehole B	ackfill			
De	pth t	o Water (ft t	ogs):	2.	3	Ground Surface Elevation (ft MSL):	Coordinate	s (X,Y	·):		
Co	mme	ents:					Logger:	10		Reviewer:	
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)	Plasticity, Co	MATERIAL DESCRIPTION  (USCS SYMBOL): Color, Moisture, Grain Size and Peonsistency/Density, Other (Odor, Dry Strength, Mineral	Content)	PID Reading (ppm)	Time (00:00)	COMMENTS	
		None			0-4- 6-10- F-C	Fill (brown) (SP)  - Black Fill (SP)  - Red silty clay, I  sound, little growe	itte L. (sc		9.6	3	

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## LOG OF BORING 53-12 Page 1 of 1

$\sim$							-			
(L	oca	tion: 🗸	240	nt	Mills, CA	Project Name: SAS 143 Mills	Project	Numb	er: 5	AC 147K)
Start Date and Time: 2/2 1245 Finish Date and Time: Total Depth Drilled (ft bgs):  Drilling Method: Geoproce Det Drilling Contractor: Cascade Total Depth Cored (ft bgs):										
Dri	lling	Method: (	Je0	270	se Det	Drilling Contractor: Cascade	Total Dept	h Cored		
Dri	II Ri	771	90)	`		Hammer Type:	Boring Dia	meter (	(in):	2"
Sa	mpli	ng Method:				Hammer Weight/Drop:	Borehole I	Backfill:	5	
Depth to Water (ft bgs): 5,0 Ground Surface Elevation (ft MSL): Coordin									):	
Co	mme	ents:					Logger:	80	F	Reviewer:
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)	SOIL NAME Plasticity, Co	MATERIAL DESCRIPTION  (USCS SYMBOL): Color, Moisture, Grain Size and Peonsistency/Density, Other (Odor, Dry Strength, Mineral	rcentage, Content)	PID Reading (ppm)	Time (00:00)	COMMENTS
		4-5	8		0-4' 4-10' 5x	- Moist, brown fill - Green, grave. I wi uzo, little silt. Wet	(SP) F-C (GM			Poor Recovery Freem 4-10° 89° (~6")

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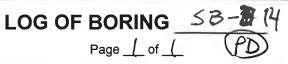
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## LOG OF BORING 5B-13 Page \_\_l of \_\_l

_	_		_						
L	ocat	tion: 🐧	د ک	Cen	+ Mills	Project Name: Crescent Mills	Project	Number:	SAC1Y7K
Sta	art Da	ate and Tin	ne: 2/	6	1230	Finish Date and Time:	Total Dept	th Drilled (f	
Dri	lling	Method: 🤇	(20)	101	be DPI	Drilling Contractor: Cascade	Total Dept	th Cored (fl	t bgs):
	II Rig		770	<b>X</b>		Hammer Type:	Boring Dia	ameter (in):	2"
Sa	mplir	ng Method:				Hammer Weight/Drop:	Borehole	Backfill:	
De	pth t	o Water (ft	bgs):	0.	5	Ground Surface Elevation (ft MSL):	Coordinat	es (X,Y):	
Co	mme	ents:					Logger:	PD	Reviewer:
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)	SOIL NAME Plasticity, Co	MATERIAL DESCRIPTION  (USCS SYMBOL): Color, Moisture, Grain Size and Peronsistency/Density, Other (Odor, Dry Strength, Mineral of	rcentage, Content)	PID Reading (ppm)	COMMENTS (00:00)
	2	-5			1.5-1	the sitt, little grant	C sas	(PD)	

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L	ocat	ion: (FQ	sce	nt	Mills, CA	Project Name: Crescent Mills	Project N	Numb	er: c	SAC147K)
Sta	art Da	ate and Tim	ne: 2	18	0600	Finish Date and Time:	Total Depth			-
Dri	illing	Method:	POF	STC		Drilling Contractor: Cascada	Total Depth	Core	l (ft bg	is):
Dri	II Rig	: 5	77	20		Hammer Type:	Boring Diar	neter (	in):	2"
Sa	mplir	ng Method:				Hammer Weight/Drop:	Borehole B	ackfill:		
De	pth to	o Water (ft	bgs):	2		Ground Surface Elevation (ft MSL):	Coordinate	s (X,Y)	):	
Co	mme	nts:					Logger:	PR		Reviewer:
Depth (ft bgs)	Sample Interval Sample Interval Sample ID and Type Blow Per 6 Inches Sample Recovery (%)					MATERIAL DESCRIPTION  (USCS SYMBOL): Color, Moisture, Grain Size and Peronsistency/Density, Other (Odor, Dry Strength, Mineral of	rcentage Content)	PID Reading (ppm)	Time (00:00)	COMMENTS
		1-4			6-10-	wet, organic Fill (s noist greenish bro I tan F-c sand the sitt, little grave kely Fill. Dense, wet, tan to blace ty clay, little for ray little gravel.	(5P)	1.0		

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## LOG OF BORING 5B-15

		CO	nsul	tant	S.S.	www.geosyntec.com		Page _1	_ <sup>ot</sup> _	<u></u>	
L	ocatio	on: C	R90	en	- Millsk	Project Name: Dt	x crescent	Project N	Numbe	r: 5	AC MAK
Sta	irt Date	and Tim	e:2/	6	1100	Finish Date and Time:	1300	Total Depth	Drilled	(ft bgs	): (O'
Dri	lling M	ethod:	seco	107	DPT DPT	Drilling Contractor:	ascabe	Total Depth	Cored	(ft bgs	):
Dri	ll Rig:	77	00			Hammer Type:	Boring Dia	Boring Diameter (in): 2"			
Sa	mpling	Method:	,			Hammer Weight/Drop:		Borehole B	ackfill:		
De	pth to	Vater (ft l	ogs):	.71		Ground Surface Elevati	on (ft MSL):	Coordinate			
Co	mment	is:					(PD)	Logger: P	D	F	Reviewer:
Depth (ft bgs)	Sample Interval	Sample ID and Type	Blow Per 6 Inches	Sample Recovery (%)		MATERIAL DE E (USCS SYMBOL): Color, M consistency/Density, Other (Color)  Dry, Mad ray brow e silt, lit -wet, red usc, f-c de gravel	loisture, Grain Size and Pe dor, Dry Strength, Mineral		PID Reading (ppm)	Time (00:00)	COMMENTS
			*		Son Hil	se, f-c s	soud, lith	e sity			

Tab Ma	SAC 14	7-K			Data	2/2		Sheet _ ( of _ 1 Initials		
'ob No.	Cresce	13- Mill	<		Date:	40			Rain	
Site Well ID	52-1	ro mon	>		Start Time:	1250		Weather	KON	
	-6	1			Finish Time:	1770		Key No.		
	evel/Pump Informat	ion:	25		6 1-W-1 -1 M		4 D (0)	1.5		
a. Well Diame	, ,		0.75		f. Initial depth	_1.5				
	(e.g., 2" PVC, noto	ned)	<u> </u>		g. Water column length [d-e+f](ft)					
c. M.P. Eleva					7	p of screen (ft)				
d. G.S. Eleva						imp intake (ft)				
	ell from G.S. (ft)				j. Saturated v	vell volume (gal)				
	Quality Measuremer									
a. Equipment	Description (type, m	odel number, s	erial number)	ا باد اداد						
	Pump:	6000	uny pe	ristalh'						
	Meters	451	856							
	Flow through cell		·t·							
b. Purging Inf		Davis Data	<b>T</b>	0	Die Owe	Dadan		T 1:19		
Time:	Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	pН	Turbidity (NTU)	Water Level (ft)	
1315			9.43	2.56	6.39	-130	5.95		1.5	
1325			9.50	222	0.33	-150	6.04		1.5	
				-71	0.,,	100	100			
-										
									+	
							-			
					-					
	1									
3. Sample Colle	ection Information									
Sai	mple ID	Time C	Collected	Container 1	ype/No./Vol.	Preser	rvation	Analytic	al Method	
1. 58	3-1-6GW		Collected 30	Val	ype/No./Vol.	-			•	
2. 01	49-1-GGW	17	330	1/00	rous					
3.										
4.										
notes:	NA = not applicab	le	NM = not measi	ured/recorded						
4. Comments:										
commond.										

ʻob No. Site Well ID	SAC 19: Crasca SB-3	tk n+ Mi	lls		Date: Start Time: Finish Time:	2/8 1000 1050		Sheet_ Initials Weather Key No.	PD Rain
a. Well Diamet b. M.P. Desc. ( c. M.P. Elevati d. G.S. Elevati e. Depth of wel	e.g., 2" PVC, noted on (ft) on (ft) I from G.S. (ft)	75	f. Initial depth to water from M.P. (ft) g. Water column length [d-e+f](ft) h. Depth to top of screen (ft) i, Depth to pump intake (ft) j. Saturated well volume (gal)			8.7			
		Glopu YS (	. D	ristalli.					
Time:	Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy₋ (mg/l)	Redox (mV)	рН	Turbidity (NTU)	Water Level (ft)
1030			8.65	394	7.95	-81.2	24	4.30	8.7
1045	16	200	8.65	3%	5.27	-78.6	4,35		9.7
	ă.								
			1						
•	tion Information	Time C	collected	Container T	ype/No./Vol.	Prese	rvation	Analyti	cal Method
1. 57 2. 3.	3-3-GGU	0 ( د	50	Var	iaus -				
notes:	NA = not applicab	le	NM = not measu	red/recorded	1				1+1.
4. Comments:	Buddles	in SM	Me H	rougho	of				

'ob No. Site Well ID	5AC 14 Cresco	tk ent M	ills		Date: Start Time: Finish Time:	2/7 1945 1540	1	Initials Weather Key No.	Cloudy
<ul><li>a. Well Diame</li><li>b. M.P. Desc.</li><li>c. M.P. Elevat</li><li>d. G.S. Elevat</li></ul>	(e.g., 2" PVC, noto tion (ft)		8.7-5 GS		f. Initial depth to water from M.P. g. Water column length [d-e+f](ft) h. Depth to top of screen (ft) i. Depth to pump intake (ft) j. Saturated well volume (gal)			10	
a. Equipment	Quality Measurement Description (type, magnetic Pump: Meters Flow through cell	nodel number, s	mp Pa	ristatio	٤				
b. Purging Inf	ormation Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	pН	Turbidity (NTU)	Water Leve (ft)
1500	u.go vo (_)	(,	10.91	775	1.46	314	[21	(,,,,,	10
1515	16	200	10.82	378	1.05	17.7	5.65		10
	ection Information	Timo (	Collected	Container 3	Type/No./Vol.	Prese	rvation	Analytic	cal Method
1	B-Y-GGU	) Inte	1520		ous -	Fiese	, vanon	Allalytti	ZOT INICUIOU
2. 0	18-2-6	6W	1540		-ious-				
notes:	NA = not applicat	ple	NM = not meas	sured/recorded					

ob No.	DAC 117	HK			Date:	2/6		Initials	PO	
ite _	Crasce	nt M	115		Start Time:	1430		Weather	Rain	
ell ID	53-4	2			Finish Time:	1500		Key No.		
Well Water Lev	el/Pump Informat	ion:								
a. Well Diamete	r (in)	2	0.75		f. Initial depth to water from M.P. (ft)					
b. M.P. Desc. (e	e.g., 2" PVC, notcl	ned)	G5		g. Water column length [d-e+f](ft)					
c. M.P. Elevatio	n (ft)				h. Depth to top of screen (ft)					
d. G.S. Elevatio	n (ft)	-			i. Depth to pump intake (ft)					
e. Depth of well	from G.S. (ft)				j. Saturated w	ell volume (gal)				
Field Water Qu	ality Measuremen	its								
a. EquipmentDe	escription (type, m	odel number, se	ial number)	- 1	5.4					
ſ	Pump:	GROPU	uno po	2 Mister	tic					
ı	Vieters	Y51	556							
ı	Flow through cell	u								
b. Purging Infor	mation									
Time	Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp	Conductivty (m-ohm/cm)	Dis. Oxy.	Redox (mV)	pH	Turbidity (NTU)	Water Lev (ft)	
Time:	Fulge Vol. (L)	(marini)	(deg C)	199	(mg/l)	64.5	3.66	(NTO)	16	
TUF	10	200	9/1	195	6/109	61.8	3,40		1,6	
1157	12	200	1.66	113	7.01	DIAD	7		1.0	
									4	
								_		
									-	
		-				-				
									1	
. Sample Collect	ion Information							,		
Samp		Time Co		Container 1	ype/No./Vol.	Preser	vation	Analytic	cal Method	
	5-65W	1500		Vario	ius —			-		
2.										
3_										
4.	74									
notes:	NA = not applicab	le	NM = not measu	red/recorded						

ob No.	CAC (47	-K rescert	+ mills		Date: Start Time:	46		Sheet _ Initials Weather	PD Rain
Vell ID	5B-6				Finish Time:	1645		Key No.	
. Well Water Le	evel/Pump Informat ter (in)	ion:	0.75		f. Initial depth	to water from M	I.P. (ft)	5.5	
b. M.P. Desc.	(e.g., 2" PVC, notcl	hed)	GS		g. Water colu				
c. M.P. Elevat					h. Depth to to	p of screen (ft)			
d. G.S. Elevat			-		i. Depth to pu	mp intake (ft)			
e. Depth of we	ell from G.S. (ft)		550	Ŋ	j. Saturated w	ell volume (gal)			
. Field Water C	Quality Measuremer	nts							
a. Equipment	Description (type, m Pump: Meters Flow through cell	Geo Po	erial number)	eristal	h'c				
b. Purging Info	ormation Cumulative	Pump Rate	Temp	Conductivty (m-ohm/cm)	Dis. Oxy.	Redox (mV)	pН	Turbidity (NTU)	Water Leve
Time:	Purge Vol. (L)	(ml/min)	(deg C)		(mg/l)	143 A	4 47	(1410)	5.5
1624			25/	190	645	nn V	4:27		E F
10/0	1/	200	a 55	19/	127	20.1	UNT		217
								1	
Comple Call-	otion Information							1	1
	ection Information nple ID	Time	Collected	Container	Tyne/No A/ol	Prese	nyation	Analytic	al_Method
	3-6-GGU		V 5	Container	Type/No./Vol.	ricati	· · uuoli	/ Wigivill	THOUIS OF
	2-0-60-	عا	117	7701	3 302				
2,									
3.									
4.	NA = not applicab		NM = not meas	ured/recorded				1	
notes:		octos	NIVI - HOL meas	area/recorded					

າb No. Site Well ID	SAC 14 Cresci	7K	ni  \s		Date: Start Time: Finish Time:	2/7		Sheet Initials Weather Key No.	l of (
Well Water Lev     a. Well Diamete     b. M.P. Desc. (e     c. M.P. Elevatio     d. G.S. Elevatio     e. Depth of well	er (in) e.g., 2" PVC, noto n (ft) n (ft)	lion: hed)	0.75		g. Water colu h. Depth to to i. Depth to pu	n to water from Numn length [d-e+ op of screen (ft) ump intake (ft) well volume (gal)	-f](ft)	),5	
! !	escription (type, m Pump: Meters Flow through cell	Goods	erial number)	erista	lic	-			
b. Purging Infor	mation Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	рH	Turbidity (NTU)	Water Level (ft)
1225	r dige voi. (L)	(111/0110)	1200)	90	121	79.5	5.78	((10)	115
1230	18	200	12.04	137	0.90	73.1	5:77		1.5
3. Sample Collect Samp 1. SS 2.			Collected	Container 1	ype/No./Vol.	Prese	rvation	Analyti	cal Method
	NA = not applicat	L Vater	NM = not measo	ured/recorded					

ob No.	SAC L	47K			Date:	2/7		Sheet of	
Site	Cresco	ut M	115		Start Time:	19924	5	Weather	Rain
Vell ID	53-9	- (1 )0(			Finish Time:	1000		Key No.	Man
. Well Water Leve	el/Pump Informat	ion:							
a. Well Diameter	r (in)		0.75		f. Initial depth				
b. M.P. Desc. (e	.g., 2" PVC, notcl	hed)	65		g. Water colu				
c. M.P. Elevation	n (ft)				h. Depth to to	p of screen (ft	)		
d. G.S. Elevation	n (ft)				i. Depth to pu	ımp intake (ft)			
e. Depth of well	from G.S. (ft)				j. Saturated v	vell volume (ga	al)		
. Field Water Qua	ality Measuremer	nts							
a. EquipmentDe	scription (type, m	odel number, s							
P	Pump:	GRODU	uno f	eristal	+'C				
N	/leters	YS(	556						
F	low through cell	10							
b. Purging Inform	Cumulative	Pump Rate	Temp	Conductivty	Dis. Oxy	Redox	_11	Turbidity	Water Level
Time:	Purge Vol. (L)	(ml/min)	(deg C)	(m-ohm/cm)	(mg/l)	(mV)	3117	(NTU)	(ft) 6,5
0935	1/	240	695	15%	5-03	115	137	+	0.5
0975	16	200	6.95	156	5.20	115	7.7	+	0:3
			-						
								-	1
-									
-			-						
-							-		1
							-	+	1
							-	+	-
					-		+	+	
							1	-	
						-			1
						-	+	4	
						-			
						1			
Sample Collecti									
Samp			Collected		Type/No /Vol	Pres	ervation	Analyt	ical Method
-	8 - 661	w 1	000	Jan	ous -				
2.								1	
3,									
4.	JA = not applicab	le .	NM = not mean	ured/recorded					
	not applicat	1 6	. mornicas	u. con cool ded					
4. notes: N	NA = not applicab	ator	NM = not meas	ured/recorded					

ob No. Site	SAC 1	(7K	15		Date:	2/7		Sheet Initials Weather	PD Craudu
Well ID	53-9				Finish Time:	1.145		Key No.	-
	evel/Pump Informat	ion:	ه کـ ۱			((12		1-	
a. Well Diame			6.75			to water from N		1.2	
	(e.g., 2" PVC, notcl	hed)	62			mn length [d-e+	-f](ft)	-	
c. M.P. Elevati					•	p of screen (ft)			
d. G.S. Elevati					i. Depth to pur				
	ll from G.S. (ft)				j. Saturated w	reli volume (gal	)		
	equality Measuremer Description (type, m Pump: Meters Flow through cell		erial number) MD Per	n'st-Jti,	2				
b. Purging Info	ormation Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	рН	Turbidity (NTU)	Water Level (ft)
1135			4.58	177	7.24	721	5.37		1.2
DYH	16	200	9.60	177	7.16	71.0	5,37		1.2
San	ction Information nple ID -9-664	Time C	Collected	Container 1	Type/No./Vol.	Prese	rvation	Analyti	ical Method
4									
notes:	NA = not applicab	ole	NM = not meas	ured/recorded					
. Comments:	silty w	ator							

ob No.	SAC 14 Crosco	7K			Date:	2/2		Sheet shitials	PD
ite	Crasco	ent Mi	115		Start Time:	0845		Weather	Rain
ell ID	58-10				Finish Time:	0915		Key No.	
. Well Water Le	vel/Pump Informati	ion:							
a. Well Diamet	er (in)		0.75		f. Initial depti	2.3			
b. M.P. Desc. (	e.g., 2" PVC, notch	ned)	GS		g. Water column length [d-e+f](ft)				
c. M.P. Elevati	on (ft)				h. Depth to to	op of screen (ft)			
d. G.S. Elevati	on (ft)				i. Depth to po	ump intake (ft)			
e. Depth of we	ll from G.S. (ft)				j. Saturated	well volume (gal	)		
Field Water Q	uality Measuremen	nts							
a. EquipmentD	escription (type, m	odel number, se	erial number)	~ ^	, ,				
	Pump:	600 DU	mp fa	rista	Hic				
	Meters	451	556						
	Flow through cell	16							
b. Purging Info									
Time:	Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	pН	Turbidity (NTU)	Water Lev (ft)
PASO	i dige VOI. (L)	(continui)	9.80	197	2.50	221	5.65	(1110)	123
N855			8.55	257	1.71	-V/7 0	マッユ		73
1910	14	200	6.33	054	0.77	237	336		12
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San	ple ID	Time C	Collected	Container <sup>-</sup>	Type/No./Vol	Prese	rvation	Analyti	cal Method
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3.									
4									
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Comments:	silly wat	41							

ob No. Site	SAC 14:	1K nt Mil	G		Date: Start Time:	21+		Initials Weather	Claudes
Veli ID	53-12	1. 1201	12		Finish Time:	1350		Key No.	(10000)
	evel/Pump Informat	tion:							
a. Well Diame	ter (in)		2"		f. Initial dept	h to water from N	M.P. (ft)	5.0	
b. M.P. Desc.	(e.g., 2" PVC, notc	hed)	35		g. Water col	umn length [d-e+	-f](ft)		
c. M.P. Elevat	ion (ft)		-,		h. Depth to t	op of screen (ft)			
d. G.S. Elevati	ion (ft)				i. Depth to p	ump intake (ft)			
e. Depth of we	ll from G.S. (ft)				j. Saturated	well volume (gal)	)		
. Field Water C	uality Measuremer	nts							
a. Equipment	Description (type, m Pump: Meters Flow through cell	GROOM	erial number) Lung Pou 556	nistaltic	-				
b. Purging Info	ormation Cumulative	Pump Rate	Tomp	Conductivty	Dis. Oxy	Redox		Turbidity	Water Level
Time:	Purge Vol. (L)	(ml/min)	Temp (deg C)	(m-ohm/cm)	(mg/l)	(mV)	pН	(NTU)	(ft)
1330			10.27	284	1.92	-60.6	605		9.9
1335	(80)	200	10-07	294	0.75	-62:7	- 5.73		9.8
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0. 0	-1				<u> </u>				
San	ction Information  nple ID  1 2 - 60	Time (	Collected		Type/No./Vol.	Prese	ervation	Analyt	ical Method
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2.									
3.								+	
notes:	NA = not applicat	l	NM = not meas	ured/recorded				1	
	not approac	1	THE HOLINGAS	//	· · · ·	N IP :	V A	n Cllins	1/1-
4. Comments:	tumes !	shand	well for	Ray on	1 agar	1 15 m	39. 4	moled	0 (N 132

'ob No.	GAC IY	7-K			Date:	2/6		Sheet _ Initials	of		
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Well ID	513-12	11 1011			Finish Time:	1400		Key No.	Kan		
	evel/Pump Informat	tion:			Tillish Tillie.	1900		Rey No.			
a. Well Diame	·	uon.	0.75		f Initial denth	to water from M	1 P (ff)	0.	5		
100	(e.g., 2" PVC, notc	hed)	GS		g. Water colu						
c. M.P. Eleva		,			h. Depth to top of screen (ft)						
d. G.S. Eleva					i. Depth to pump intake (ft)						
	ell from G.S. (ft)				j. Saturated well volume (gal)						
	Quality Measuremer	nts			,	(8-1)					
	Description (type, m		erial number)								
	Pump:		Lmo	parista	-ltic						
	Meters	VEI		(2)	0110						
		15/	536								
b. Purging Info	Flow through cell										
	Cumulative	Pump Rate	Temp	Conductivty	Dis. Oxy.	Redox		Turbidity	Water Level		
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1/2 /2			+.16	171	4, 36,	119.7	3.00		0.5		
1345			7.90	17-5	8.50	130.3	5.48		0.5		
1350		- 2.0	799	174	8.60		35.57		0.5		
1355	16	200	7.99	174	8.63	119.5	5.59		0.5		
									-		
									_		
			-						-		
3. Sample Colle	ction Information										
San	nple ID		ollected	Container T	ype/No./Vol.	Preser	vation	Analytic	al Method		
1. 4	00 SB-13-	6GW 1	400	Varia	ous -						
2.											
3.											
4.											
notes:	NA = not applicab	le	NM = not measu	red/recorded							
4. Comments:	Silty u	vonter									
- 5	2					1.0					

#### Low Flow Sampling Form

ob No.	SAC 147	nt mills		_	Date:	2/8		Initials Weather	PD
te ell ID	5B-4	is in it			Start Time: Finish Time:	0935		Key No.	Raun
	vel/Pump Informat	ion:	-11						
a. Well Diamet	er (in)	-		7.5 f. Initial depth to		to water from M.P. (ft) mn length [d-e+f](ft)		2	
b. M.P. Desc. (	(e.g., 2" PVC, notch	ned)	GS	g. Water colur					
c. M.P. Elevation	on (ft)	_			h. Depth to to	p of screen (ft)			
d. G.S. Elevati	on (ft)	-			i. Depth to pu	mp intake (ft)			
e. Depth of well from G.S. (ft)				j. Saturated well volume (gal)					
	uality Measuremer								
a. EquipmentD	escription (type, m	1							
	Pump:	Geophi	<u> </u>						
	Meters	YS1 55	6						
	Flow through cell	41							
<ul><li>b. Purging Info</li><li>Time:</li></ul>	rmation Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy (mg/l)	Redox (mV)	рН	Turbidity (NTU)	Water Lev (ft)
0840	r digo voi. (L)	(marrianty	6.49	158	267	188.3	4.16		2'
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0 1-0-11-	· · · · · · · · · · · · · · · · · · ·					-		-	
	ction Information	Time C	allastad	Containor 3	Type/No./Vol.	Preser	vation	Analytic	cal Method
ST	nple ID 140 GGW	Time C	D1900	Vario		1 16361	valion	7 that yet	-
1. OG	11P-7/TD	H-d only	0920	Vario					
3.	M-2(11	المنام (المنام	0100	V =0 10					
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notes:	NA = not applicab	le	NM = not measu	red/recorded					
	After Sav	· 11246 (	e calibra	18X C/3	1 240. 4	o lou s	ALL HO	med to	get

#### Low Flow Sampling Form

ob No.	SAC 1	47-K			Date:	2/4/	_	Sheet_ Initials	PD -
ite	DIEC	Brescan	+ Wills		Start Time:	1200		Weather	cloudy.
Vell ID	58-15				Finish Time:	1230		Key No.	Reint
. Well Water Le	vel/Pump Informat	tion: 6	0						
a. Well Diamet	ter (in)	(A	20 0:	7-5	f. Initial depth	to water from M	1.P. (ft)	1.	7
	(e.g., 2" PVC, noto	hed)	65		g. Water column length [d-e+f](ft)				
c. M.P. Elevati					h. Depth to top	o of screen (ft)			
d. G.S. Elevati					i. Depth to pur	mp intake (ft)			
e. Depth of we	II from G.S. (ft)				j. Saturated w	ell volume (gal)			
Field Water Q	uality Measuremer	nts							
a. EquipmentD	escription (type, m	nodel number, se	rial number)	ri stall	TIC				
	Meters	961	556						
	Flow through cell	u							
b. Purging Info									
Time:	Cumulative Purge Vol. (L)	Pump Rate (ml/min)	Temp (deg C)	Conductivty (m-ohm/cm)	Dis. Oxy. (mg/l)	Redox (mV)	рН	Turbidity (NTU)	Water Leve
12.05			6.00	191	9.80	9.4	7,27	44400	1.7
1210			5:98	179	6.56	25.0	6.32	((J)	1.6
1215			5,90	176	5.87	12.3	5.72		1.6
1720			5.95%	175	5.59	52.3	5.53		1.6
1225	195	200	5.87	17-5	5.43	58.0	5.48		1.6
,									
Sample Collec	ction Information								
	ple ID	Time Co	allected	Container T	vne/No Mol	Preser	vation	Analytic	al Method
1. SB-15-GGU 230		Container Type/No./Vol.		Preservation		Analytical Method			
2.		1-		VIVO 1 (		Man		AVDIC	
3.									
4.									
	NA = not applicab	le I	VM = not measur	ed/recorded					
		ssily							



Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 1

Date:

10 November 2016

Direction:

South

Comments:

Drop inlet along current

mill road



Photograph 2

Date:

10 November 2016

Direction:

South

Comments:

Wood waste stockpile #3



#### GEOSYNTEC CONSULTANTS

Photographic Record

Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 3

Date:

10 November 2016

Direction:

South

Comments:

Trench drain on west side of maintenance shop



Photograph 4

Date:

10 November 2016

Direction:

North

Comments:

Approximate location of former waste oil AST north of maintenance shop along northern property boundary. Sacramento Valley Moulding buildings shown in picture.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

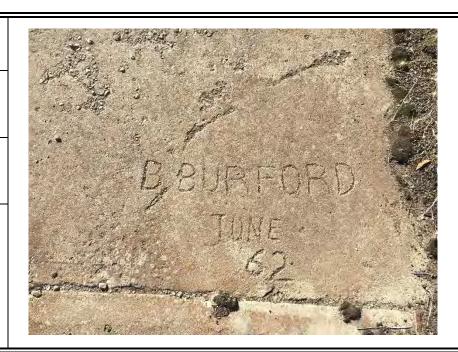
Photograph 5

Date:

10 November 2016

Direction: NA

Comments: Date of concrete foundation for dry lumber storage #4 – concrete foundation laid over former mill road



Photograph 6

Date:

10 November 2016

Direction:

West

Comments:

Depression in center of photo was location for SB-11, collected east of the new planing mill transformer





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

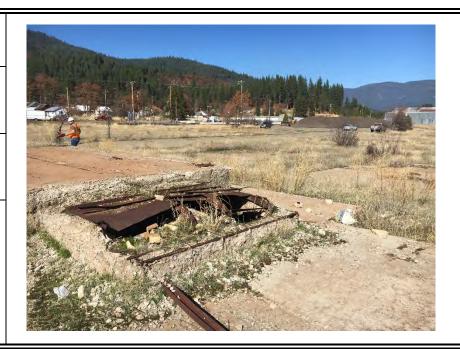
Photograph 7

Date:

10 November 2016

Direction: West

Comments: Former boiler



Photograph 8

Date:

10 November 2016

Direction:

South

Comments:

Former boiler fuel shed foundation and ramp that was lower to left and higher to right of photo.



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 9

Date:

10 November 2016

Direction: South

Comments: Former sorter/stacker building



Photograph 10

Date:

10 November 2016

Direction:

South

Comments:

Dead vegetation and construction debris including sprayer nozzle between sorter/stacker building, green chain (pictured), and saw mill (to right).



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Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 11

Date:

10 November 2016

Direction:

West

Comments: Former saw mill septic tank to west of former saw mill building



Photograph 12

Date:

10 November 2016

Direction:

East

Comments:

Transformer conduit and pits to west of former saw mill building Soil sample SB-2 collected in vegetated area on left side of photo.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 13

Date:

10 November 2016

Direction:

West

Comments: Typical wood waste and fill stockpile #2 materials.



Photograph 14

Date:

10 November 2016

Direction:

West

Comments:

Wood waste stockpile #5. DU-19 was collected on left side of pile shown in photo.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 15

Date:

10 November 2016

Direction: South

Comments: Log Deck Recycle Pond



Photograph 16

Date:

10 November 2016

Direction: Northwest

Comments:

Apparent trace of pipe running from former UST area to sawmill. SB-15 collected adjacent to this linear feature.



# GEOSYNTEC CONSULTANTS PHOTOGRAPHIC RECORD



CLIENT: DTSC PROJECT NUMBER: SAC147K

SITE ADDRESS: 15690 CA HIGHWAY 89 SITE LOCATION: CRESCENT MILLS,

**C**ALIFORNIA

Photograph 17

Date:

10 November 2016

Direction: South

Comments:

Cans of unidentified substances, possibly paint, along the western property boundary near the Old Dry Kiln.



Photograph 18

Date:

10 November 2016

Direction:

South

Comments:

Above ground piping associated with Old Dry Kiln. Sample SB-13 collected to east of location.



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 19

Date:

6 February 2017

Direction:

North

Comments:

Pooling water at former saw mill.



Photograph 20

Date:

6 February 2017

Direction:

North

Comments:

Wood waste and fill stockpile #6 and location of DU-20. Northern portion of Site shown in background of photo.



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 21

Date:

6 February 2017

Direction:

West

Comments: Wood waste stockpile #5. DU-19 collected on left side of pile.



Photograph 22

Date:

6 February 2017

Direction:

East

Comments:

Proposed location of SB-6 was inundated with water. Advanced boring on dry ground on the southern side of the ramp.



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 23

Date:

6 February 2017

Direction: Northwest

Comments:

Site flooding between new planing mill and maintenance shop as seen from wood waste and fill stockpile #2.



Photograph 24

Date:

6 February 2017

Direction:

North

Comments: Location of SB-11 and SB-12 at new planing mill, east of the extent of flooding.



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 25

Date:

6 February 2017

Direction:

North

Comments:

Typical casing left in ground for groundwater sampling.



Photograph 26

Date:

6 February 2017

Direction:

North

Comments:
Pressure washer setup for drilling rod decontamination.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 27

Date:

7 February 2017

Direction: Northeast

Comments:

Location of potential UST to the east of maintenance shop as noted by flagging.

Another potential UST location was noted behind the pine tree.



Photograph 28

Date:

7 February 2017

Direction:

West

Comments: Direct push technology drill rig advancing soil boring SB-7



Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 29

Date:

7 February 2017

Direction:

NA

Comments:

Soil samples from SB-12. Green color to soil from 5 to 10 feet below ground surface. Note, poor recovery due to gravel in sediment trap.



Photograph 30

Date:

7 February 2017

Direction:

NA

Comments:

Soil samples from SB-13 showing fill to approximately 5 feet bgs and oxidized clay from 5 to 10 feet bgs.



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Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 31

Date:

9 February 2017

Direction:

South

Comments: Flooding in the sorter stacker area in late afternoon on 9 February.



Photograph 32

Date:

9 February 2017

Direction:

South

Comments: Flooding in the sorter stacker area in early morning on 10 February.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 33

Date:

10 February 2017

Direction:

Southeast

Comments: Flooding at the Site as seen from wood waste stockpile #3



Photograph 34

Date: 26 March 2017

Direction:

Comments:

North

Location where Arsenic DU-2, the arsenic background ISM sample, was collected in two rows covering top of berm to left of frame and open



Page D-17

area to right of frame.

Geosyntec consultants

Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 35

Date:

26 March 2017

Direction:

NA

Comments:

Three bucket wash decontamination system for hand auger used in sampling.



Photograph 36

Date: 26 March 2017

Direction:

South

Comments:

General condition of the Saw Mill and Sorter/Stacker area. Water from February flooding had receded.





Client: DTSC Project Number: SAC147K

Site Address: 15690 CA Highway 89 Site Location: Crescent Mills, California

Photograph 37

Date:

26 March 2017

Direction:

East

Comments:

Log deck water supply well. The water level and depth to the bottom of the well were measured using the water level meter shown.



Photograph 38

Date: 26 March 2017

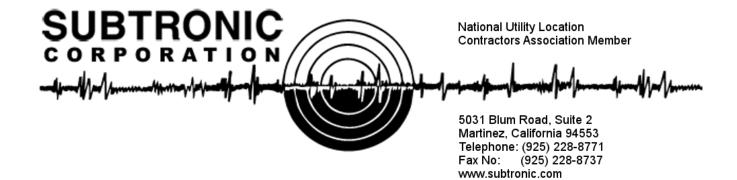
Direction:

NA

Comments:

Poured grout through tremie pipe into borings that could be located that were not sealed prior to Site flooding during initial investigation.





#### GEOPHYSICAL SUBSURFACE INVESTIGATION

for Geosyntec Site Crescent Mills Crescent Mills, California

#### **OBJECTIVE**

Geophysical investigation for underground storage tanks.

#### SITE LOCATION AND DESCRIPTION

On April 12, 2017, Subtronic conducted a subsurface geophysical survey at the former lumber mill property located in the town of Crescent Mills, California. The area of concern described by the client is a 10 foot swath surrounding the concrete slab which belonged to the now demolished maintenance shop. The slab dimensions are approximately 185 feet by 68 feet.

#### **GEOPHYSICAL EQUIPMENT**

The specialized equipment used at the site includes a RD 8000, TW-6 M-Scope, Schonstedt GA-72CV, and GSSI system 4000 ground penetrating radar (GPR).

#### Radiodetection RD 8000 Cable and Pipe Tracer

The RD 400-cable locator is a hand-held instrument used to detect buried utilities. The primary application of the RD 400 is to pinpoint the path of electric lines and other power conductors such as CATV and telephone cables. Pipes made of steel or copper and pipes with tracer wire are also easily traced.

#### TW-6 M-Scope

The Fisher TW-6 M-Scope is a split box inductive locator and metal detector mounted on a four-foot rod. The split box locator can detect metal lines "inductively". The M-Scope is also used to detect buried metallic objects such as manhole covers,

underground storage tanks, etc... The limits of detection with a TW-6 M-SCOPE is about 5 feet deep.

#### Schondstedt

The Schonstedt is a hand held magnetic locator about 2 ½ feet long which functions as a magnetometer but does not log any data. The Schonstedt produces audio signals over buried of metal objects. The limits of detection with a Schondstedt is about 8 to 10 feet deep in an open field.

#### GSSI SIR-4000

A ground penetrating radar system graphically records subsurface structures. Both geological and manmade structures are recorded by the introduction of a pulse of electromagnetic energy into the ground. Reflected pulses received by the antenna are then processed for measurable contrast in electrical properties. The result is a visual pseudo-cross-sectional profile.

Primary applications of the GPR are detecting UST's, buried drums, previously excavated areas, i.e., UST excavation, and detecting metallic and non-metallic utilities.

The GPR depth penetration is severely limited by clay-rich soil. Radar waves penetrate deeper in sandy and gravelly soils.

#### **Survey Methodology:**

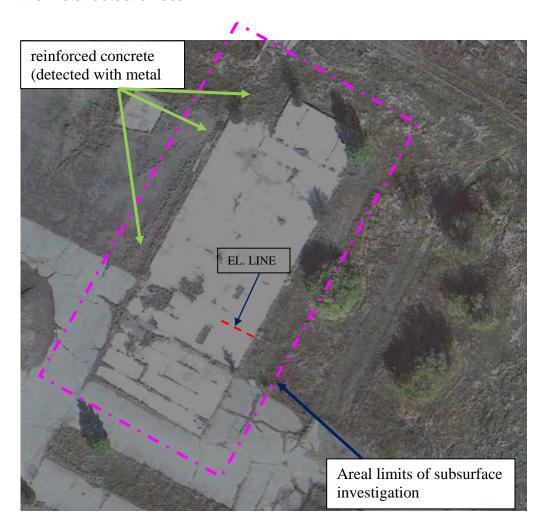
First, a visual inspection was conducted at the site. Underground utilities, vaults, boxes, exposed piping, topographic mounds and depressions were noted. Exposed piping or risers found on the site were energized, traced out and the surface location was spray painted on the ground.

Then the split box locator and Schondstedt were scanned along the perimeter of the concrete slab up to 10 feet off the slab edge. Buried piping and metal detected by the instruments were marked on the ground. The location of the buried metal was marked on a sketch map.

#### **SURVEY RESULTS**

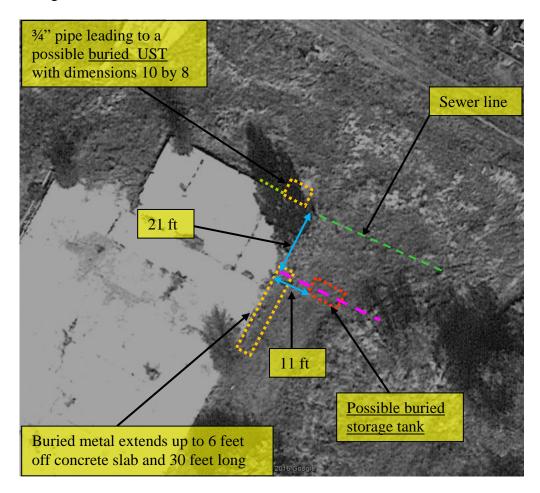
A visual inspection of the site indicated several pipe risers. Most of the pipe risers were interpreted to be abandoned electric lines. The electric lines traced to the center of the concrete slab. This suggests that they were installed for machinery located in the center of the shop. A 4 inch cast iron sewer riser was found in the northeast corner of the slab, it was traced southeastward toward the empty field.

The figure below shows the limits of the subsurface survey and the electric line previously discussed. Also shown on this map is reinforced concrete detected during the metal detection scan.





The figure below shows the buried metal detected on the eastside of the slab. Beginning at the northeast side of the concrete slab, a 10 foot section of  $\frac{3}{4}$  inch pipe is visible lying on the ground. This pipe was traced southeastward to the location of buried metal with dimensions 8 by 10 feet. The buried metal could not be scanned with ground penetrating radar because this area is a depression filled with at least 6" of water. Twenty one feet southwest of the northeast corner of the slab an unknown buried pipe was marked on the ground (see dashed pink line in figure below). Along this pink line an area of buried metal with dimensions 10 feet by 4 feet was detected. It is possible the buried metal could be associated with an underground storage tank. Radar indicates that the buried metal is approixmately 2 feet deep. The last area of buried metal is 6 feet wide by 30 feet long. The ground penetrating radar scans over this area are not clear enough to define what is the buried metal.



#### **CONCLUSIONS**

Three buried metal anomalies were detected from the geophysical investigation. One of them located on the northeast edge of the concrete slab is connected to a ¾ inch pipe. This area could not be scanned with ground penetrating radar to confirm if it is a UST because it was covered with at least 6 inches of water. A second anomaly was found 21 feet south of the northeast corner. Radar scans and metal detection suggest it is either a large pipe or a possible UST buried about 2 feet deep. The third anomalous area is 6 wide by 30 feet long. Radar scans over this area did not provide insight into what type of metal was buried there.

#### Recommendations

The anomalies can best be identified by careful excavation in the areas indicated.

#### Limitations

The subsurface geology, object size and composition, burial depth, above ground metallic cultural features, affect the size and shape of geophysical anomalies and, which may impede their detection. Geophysical anomalies may not represent unique solutions. Apparently similar anomalies may be created by different subsurface phenomena creating "false positives".

The limits of discernment of this survey are the detection of objects within five feet of metal fences, buildings, vehicles and other identified objects.

Report Prepared By:

Pierre S. Armand RGP 1021

#### NON-HAZARDOUS WASTE TRANSPORT FORM

GENERATOR	CUSTOMER				
Name: Address: 15690 Hwy 89 Crescent Mills, CA	Name: DOULOS ENVIRONMENTAL Address: P.O. BOX 2559 ORANGEVALE, CA				
Phone: 916.637.8341	Phone: 916 990 0333				
DESCRIPTION					
Description of Material : Soil Cuttings					
Volume/Weight: 525 Units	: _pounds Container(s): drums				
Generator/Authorized Agent : Hal Ha	ansen Hal Hamon 4/6/17 Sign Date				
TRANSPORTER					
Name: <u>DOULOS ENVIRONMENTAL</u> Address: <u>P.O. BOX 2559</u>	Job No: Project #SAC147K				
ORANGEVALE, CA Phone: 916 990 0333	Truck ID: Driver: Driver: Date				
DISPOSAL FACILITY					
Name: KIEFER LANDFILL FACILITY Address: SACRAMENTO, CA	Quantity: 525 Units: pounds Disposal Method:				

#### NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR	Name: Doulos Environmental, Inc. Address: P.O. Box 2559 Orangevale, CA 95662 Phone: 916-990-0333				
Name:					
DESCRIPTION					
Description of Water :	purge water				
Volume/Weight: 100 Units:	gallons Container(s): poly tank				
This non-hazardous waste water is monitoring well purge rinsate, combination thereof, or as described above. Describe the above named material has been properly described an no characteristics that would require its handling as hazar	ribed water may contain dissolved hydrocarbons. I certify that d classified according to applicable regulations, and possesses				
Generator/Authorized Agent : <u>Hal Hansen</u> Print	Sign Date				
TRANSPORTER					
Name: Doulos Environmental Address: P.O. Box 2559 Orangevale, CA 95662 Phone: 916-990-0333	Job No: GeoSyntec, Crescent Mills #SAC147K Pick-up Date: Truck ID: Driver: Date				
DISPOSAL FACILITY					
Name: Inviro-tec Disposal Address: 2480 Athens Way Lincoln, CA  Received by:	Quantity:				