SDMS Document
127812

Brown and Caldwell

Remedial Construction Report
Remedial Work Element I, Soils
Chemsol Inc. Superfund Site

Volume III
Appendices G - K

Revised October 2002
August 2002

REMEDIAL CONSTRUCTION REPORT
FOR REMEDIAL WORK ELEMENT (RWE) I, SOILS
FOR THE
CHEMSOL INC. SUPERFUND SITE

VOLUME III - APPENDICES G - K

Prepared for:

Chemsol Inc. Superfund Site Environmental Remediation Trust

Prepared by:

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20541.144

Revised October 2002
August 2002

APPENDIX G

CONSTRUCTION MEETING MINUTES

MINUTES

Meeting Title	Pre - Construction (Kick-Off) Meeting for Remedial Work Element I - Soils @ Chemsol Inc.
Place	Chemsol Site - 100 Fleming St., Piscataway, NJ
Start Time	10:00 am
End Time	11:45 am
Date of Meeting	08/10/2001
Prepared by	Code Environmental Services, Inc. - 08/14/2001

ATTENDEES: (see attached sign-in sheet)
Representatives from Code Environmental Services, de maximis, Brown and Caldwell, TAMS, Exxon Mobil, EPA and BAI.

Discussed Items:

I. **Purpose of the meeting:**
The meeting was held to clear some items which were discussed below. All concerned parties were introduced by Mr. Lee (de maximis) and cited their own entailment and responsibilities on the Chemsol project.

II. **Execution of trust-contractor agreement:**
Code will forward the signed contract agreement to Pitney, Hardin, Kipp & Szuch LLP, and Allison T. Saling. Bill Lee (de maximis) will issue a Notice to Proceed (NTP) to Code (if required).

III. **Submission of bond and insurance certificates.**
By next week (Aug.13 - 17), Code will submit the required insurance certificate and performance/payment bond. Code mentioned in the meeting that the pay line item on the bond will be increased due to adjustment of some pay items.

IV. **Submission of list of vendors/suppliers, products, schedule of values, and progress schedule.**
As mentioned in the meeting, Code will submit all necessary submittals that were specified in the specification to Brown and Caldwell (B & C).

Schedule of prices on the bid form will be the Schedule of values.

At present, Code submitted a sample of subsoil & topsoil to Key-Tech for material testing .

V. **Designation of personnel representing parties in the contract and trust's representative(s).**

Brown and Caldwell:	Carla Oliveira
TAMS:	Maheyar R. Bilimoria / Jennifer Higgins / Helen Pang
CODE:	Tom Tomassetti (Project Manager)

VI. **Procedures & processing of field decisions, submittals, substitutions, application for payments, change orders, and contract closeout procedures.**
Code notify B&C and TAMS and will work together if any unforseen item of work is encountered in the field.

Code will submit a monthly/or bi-weekly invoice (Bill Lee to confirm). A format will be also submitted to be used for progress billing.

Code proposed to excavate first the hot spot to eliminate of potential gross contamination.

Brown & Caldwell, de maximis requires that a cost for change order (if encountered) should be submitted as soon as possible. Code will submit a cost for access road as an alternate if ARKO will not go
Note: Current change orders - wetlands (top soil spec., seeding & planting plan) & the costs were sent already to B & C.

If changing of supplier (fill/topsoil), TAMS should be notified ahead of time.

Code will provide B&C / TAMS (3) telephone lines (2-phone, 1-fax/computer).

VII. **Project Schedule.**

B & C will send on Monday or Tuesday (2) sets of signed/sealed of drawings and on cd. Code need these drawings for the pre-survey of the site which is scheduled on August 20, 2001. Code will start mobilizing on or before August 15 (Wednesday). On the following week (week of Aug 20th) will start survey, sampling of soil stockpile, drums & tanker's product content.

Code requires an approved Erosion and Sediment Control Plan (ESCP) before any soil disturbance begins.

VIII. **Permits/Approval Status:**

USEPA/NJDEP Approvals:	B&C received a conditional approval on 08/09/01.
Wetlands/Stream Encroachment: and ESCP:	B&C resubmitted the revised documents & waiting for approval & will follow-up the status.
Local Permits:	Code is currently looking for demolition (concrete) and electrical inspection (for office trailer). B&C found out that tree clearing/cutting is required.
Access agreements:	B&C will provide Code a copy of the agreements.

IX. **Traffic Control.**

Code will utilized an off-duty police officer to control traffic during peak days of import/export of soils.

Transporting of aggregates for access road will be coming thru Fleming St. & will not require off-duty cop.

X. **Site Access.**

Only authorized personnel will be allowed on the site. Code requests all other parties requesting site visits notify Code 24 hrs. in advance of their arrival.

XI. **Working hours.**

Code will work at the jobsite from 7:00 am - 3:30 pm to 5:30 (if necessary).

XII. **Health & Safety (H&S).**

HASP will be modified according to site conditions.

TAMS & B&C personnel will provide their own PPE.

All personnel working at the site will implement H&S including the transporter (drivers).

XIII. **Public Relations.**

Various public meetings (town, local officials) were held to notify everybody (public) regarding this project.

EPA will look into making the Office of Emergency Management aware of this project.

Copy of public notifications will be posted in the office trailer. Any visitors to the project will be directed to the EPA / B&C representatives.

XIV. **Date/time of Site Mobilization Meeting.** Tentative schedule - 08/21/01(Tuesday) , 10:00 am.

XV. **Day/time of for weekly progress meeting.** Every Tuesday, 10:00 am.

SIGN-IN SHEET

PRE-CONSTRUCTION MEETING
REMEDIAL WORK ELEMENT I, SOILS
CHEMSOL INC. SUPERFUND SITE
PISCATAWAY, NEW JERSEY
August 10, 2001

SIGN-IN SHEET

ATTENDEE	REPRESENTING	TELEPHONE
Bonnie Boylan	de maximis	908-735-9315
CARLA OLIVEIRA	Brown & Caldwell	201-818-6055
Bill Lee	de maximis	908-735-9315
Mahreyar R. Bilimoria	TAMS	973-338-6880
Helen Pang	TAMS	973-338-6680
MARC V. CRUZ	CODE ENV. SVCS.	732-969-2700
Steve Kessel	Brown and Caldwell	201-818-6055
JOHN BRUZZI	ExxonMobil	908-474-7152
THOMAS TOMASSETTI	CODE ENVIR. SERV.	732-969-2700
Nigel Robinson	EPA	212-637-4394
RICH ABRAMO	Code ENV. SERV.	732-969-2700
David Orr	BAI	201-296-0312

MINUTES

Meeting Title	Progress Meeting for Remedial Work Element I - Soils @ Chemsol Inc. Superfund Site
Place	Chemsol Site (B&C's Office Trailer - 100 Fleming St., Piscataway, NJ
Start Time	10:15 am
End Time	11:25 am
Date of Meeting	08/28/2001
Prepared by	Code Environmental Services, Inc. - 08/30/2001

ATTENDEES:

Steve Kessel: Brown and Caldwell
Carla Oliveira: Brown and Caldwell
Jennifer Higgins: TAMS
Tom Tomassetti: Code
Marc V. Cruz: Code
Brian Schortje: Code

The purpose of this meeting is to discuss the project status, work completed to date and the anticipated activities scheduled for the upcoming week.

Discussed Items:

Code mentioned that the site clearing started Wednesday (08/22/01) and will be done this week or early next week. Pre-survey , limits of disturbance, and excavation limits still in progress, survey work will continue after land clearing activities. Sampling of tanker content to be performed today.

Portion of existing chain link fence (north end) that was damaged during clearing was temporarily repaired. This fence is in excavation limits and scheduled for removal.

An accident occurred Thursday, 08/23/01while cutting trees. The incident report was distributed during the meeting stating how the incident occurred and measures taken to avoid and prevent them in the future.

Steve Kessel (B&C) indicated that all revised plans incorporated in to the RAWP need to be submitted again (1-hard copy & e-mail) once approval is received from EPA. B&C to keep us informed as to status. He also mentioned the following items that should be in-place:

- Silt fence must be installed as soon as practical. Code did not install the silt fence because tree cutting was the only activity being performed and no grubbing operations were going on, no further soil disturbance was anticipated. Code wanted to eliminate the double handling & damaging of silt fence during tree cutting. This was acknowledged by B&C but all parties agree that silt fence will be installed as soon as practical. Delivery of silt fence to site expected on Thursday this week. Silt fence submittal was verbally approved at meeting.

- Health & safety requirements must be followed. Anybody going into the site (contaminated area) must wear proper PPE.

- All personnel coming to the site should sign in/out. Code will close gates when possible.

As mentioned in the meeting, Code will revise H&S regarding the PPE for inspections and allow HSO to determine downgrade if applicable. (Straight level "D" with over boots for inspections)

It was agreed by all in attendance that soil classification sampling should not be conducted until the table of analytical methods is accepted by Tams.

Submittals:

As mentioned in the meeting, Code will submit all necessary submittals to Brown and Caldwell, 5-copies numbered as to sequence and specification section #s.

Code will submit a revised project schedule.

Construction photos:

Code and B&C agree that digital photos will be acceptable. Code will submit a printed hard copy (two pictures per 8½"x11" page) and 1-cd electronic copy with monthly pay estimates.

Wood Chips:

B&C approved the wood chips generated from clearing can be used for mulching and for soil stabilization if required.

Existing Wells:

Per Carla (B&C) and Jennifer (TAMS), wells should be re-labeled after spraying of paint during survey.

Change Order:

B&C reminded Code that the cost for fence and topsoil change orders need to be submitted.

Adjustment on the cost of bond will be part of change order.

Note: Current change orders, wetlands (top soil-spec., seeding & planting plan) & their respective costs were sent already to B&C prior to contract award.

Access Road (ARKO Paper Product Company):

Per Steve Kessel (B&C), he feels the issue on the access road will be resolved today or tomorrow but definitely will have some kind of answer soon.

Due to the uncertainty of site access Code has not fully mobilized to construct haul roads and perform survey along ARKO's property. Delay noted but details will follow in next week's meeting.

Permit (Local)/Status:

Tree clearing:	Approved - Copy was sent to B&C.
Electrical inspection (trailer office):	Submitted by BIGLER (electrical contractor) & waiting for inspection.
Zoning:	Submitted to township.
Soil excavation permit:	($50.00 fee + $0.10 per cu yd) -not submitted
Land fill permit:	($10.00 fee) -not submitted

Tams Input:

Jennifer Higgins (TAMS) will verify the table regarding the analytical that was submitted for waste sampling/classification was acceptable.

Informed B&C of discrepancies between bid specifications and drawings. Steve Kessel and Carla Oliveira will correct discrepancies.

Dewatering:

Jennifer mentioned in the meeting that Code needs to submit the storm water diversion plan "one pager" for construction of stream crossing.

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Progress Meeting

Date: September 4, 2001

1) Minutes from previous meeting on August 28, 2001.
   A) Meeting attended by Code, Brown & Caldwell and Tams Consultants.

2) Work in Progress.
   A) Continue clearing and chipping operations.
   B) Continue survey (calculations for an excavation layout).
   C) Sampled tanker truck 8-28-01, H2O & sediments. Waiting for results prior to discharging any liquids to waste water treatment plant.
   D) Begin installation of soil erosion control measures (silt fence)
   E) Field office setup complete (installation of phones).
   F) Continue to generate submittals of materials for incorporation into project.

3) Field observations, problems and decisions.
   A) Perimeter fence damaged during tree clearing operations.
   B) Tree's were very large, leaning or growing within fence fabric.
   C) It was deemed safer to damage the fence then jeopardize the safety of the equipment operator and damage of the equipment.
   D) A safety fence will be utilized as temporary security. A new fence is scheduled for installation in same area.
   E) B&C's concern that fence will not be available for reuse should be eliminated since Code will supply new fence as a substitute. Not all the fence was worth saving.

4) Identification of problems impending planned progress.
   A) Access agreements with Arko paper.
      1) The borrow subsoil material, which Code had secured, sampled and was going to submit for approval for use on this project is no longer available.
      2) Code could not make a commitment to the supplier and the supplier has subsequently released it to someone else.
      3) Code is working with this supplier, and others, to secure additional borrow piles.

4) Code will have to submit other borrow samples for mechanical tests prior to submittal to B&C.

B) The confusion over the analytical sampling methods and holding time table may impact Code's ability to get the waste soil piles sampled.

1) Code would like to know exactly why this table is not acceptable and with whom Code need's to work with to resolve this problem.

5) Review of submittal schedule and status of submittals.

A) See attached table.

6) Maintenance of progress schedule

A) See attached project schedule.

7) Planned progress during succeeding work period.

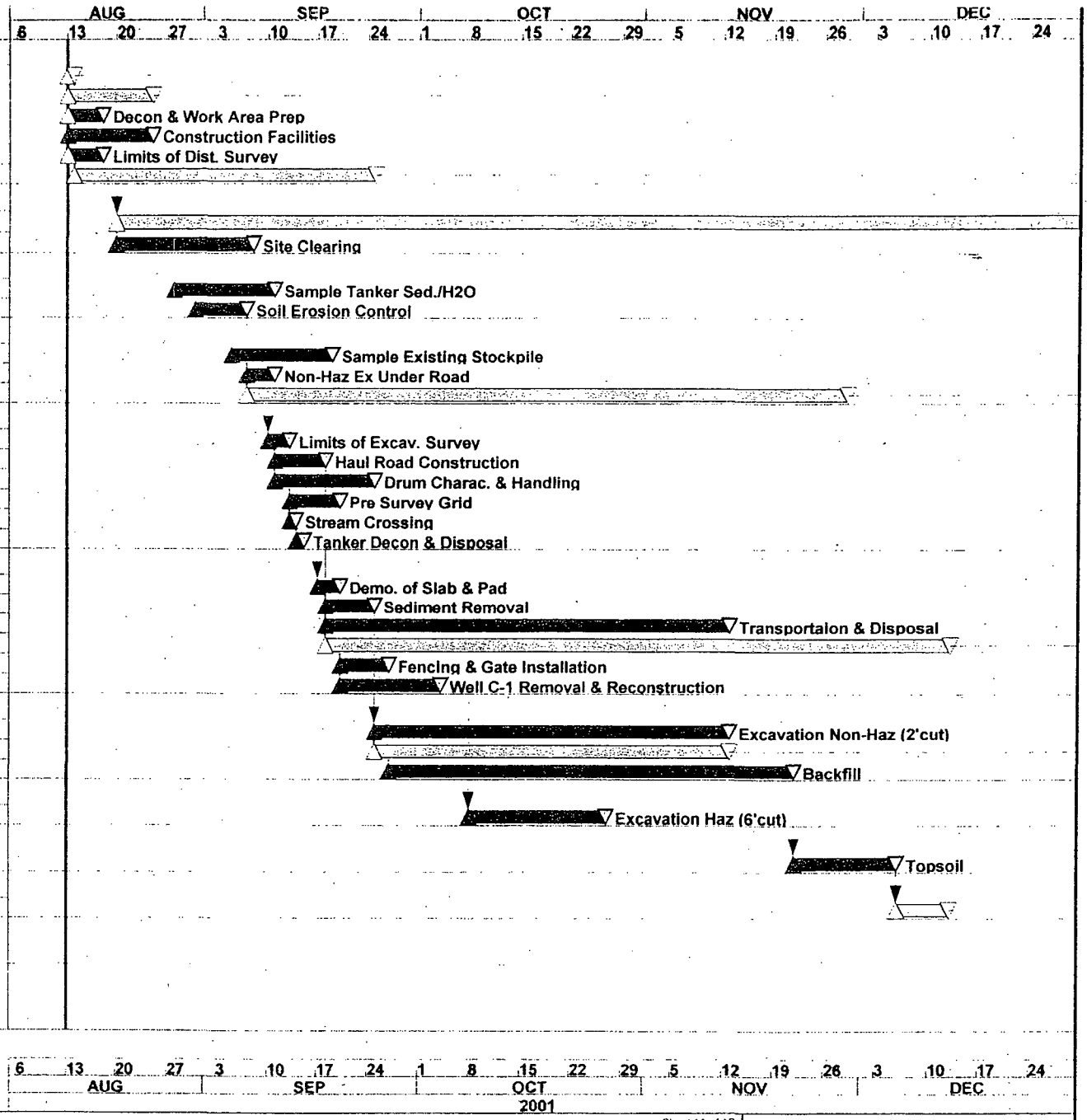
A) Survey layout of excavation limits and haul road.
B) Meet with Buckeye pipeline and E-town water.
C) Completion of clearing and chipping activities.
D) Completion of erosion control measures.
E) Grubbing of stumps and stage for grinding.

8) Health and Safety

A) No injuries or deficiencies to report.
B) Code will begin air monitoring even though soil disturbance is not anticipated. Code wants to establish background readings.

9) EPA oversight

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01	13AUG01
25	Mobilization	10	13AUG01	24AUG01
35	Decon & Work Area Prep	5	13AUG01	17AUG01
45	Construction Facilities	10	13AUG01	24AUG01
305	Limits of Dist. Survey	5	13AUG01	17AUG01
15	Submittals / Permits	30	14AUG01	24SEP01
20AUG01				
55	HASP Implementaion	173*	20AUG01	17APR02
95	Site Clearing	15	20AUG01	07SEP01
27AUG01				
325	Sample Tanker Sed./H2O	10	28AUG01*	10SEP01
85	Soil Erosion Control	5	31AUG01*	06SEP01
03SEP01				
135	Sample Existing Stockpile	10	05SEP01*	18SEP01
125	Non-Haz Ex Under Road	2	07SEP01	10SEP01
225	Water & Dust Control	59*	07SEP01	28NOV01
10SEP01				
315	Limits of Excav. Survey	3	10SEP01	12SEP01
105	Haul Road Construction	5	11SEP01	17SEP01
145	Drum Charac. & Handling	10	11SEP01	24SEP01
65	Pre Survey Grid	5	13SEP01	19SEP01
115	Stream Crossing	1	13SEP01*	13SEP01
155	Tanker Decon & Disposal	1	14SEP01	14SEP01
17SEP01				
165	Demo. of Slab & Pad	3	17SEP01	19SEP01
195	Sediment Removal	5	18SEP01	24SEP01
205	Transportaion & Disposal	40	18SEP01	12NOV01
295	Traffic Control	62	18SEP01	12DEC01
75	Fencing & Gate Installation	5	20SEP01	26SEP01
235	Well C-1 Removal &	10	20SEP01	03OCT01
24SEP01				
185	Excavation Non-Haz (2'cut)	35	25SEP01	12NOV01
275	Post Excav. Survey	35	25SEP01	12NOV01
215	Backfill	40	27SEP01	21NOV01
08OCT01				
175	Excavation Haz (6'cut)	15	08OCT01*	26OCT01
19NOV01				
245	Topsoil	10	22NOV01	05DEC01
03DEC01				
335	Temp. Soil Stab. Winter	5	06DEC01	12DEC01
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



Project Start	06AUG01
Project Finish	19APR02
Data Date	13AUG01
Run Date	04SEP01

Early Bar
Float Bar
Progress Bar
Critical Activity

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CHEM

Sheet 1A of 18

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Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Submittals

Submittal Procedures

1) Transmit five copies to the Trust Rep. and two copies to project site files.
2) Submittal shall be numbered according to the specification citation. Resubmittals will use the same number with a letter designation ie: A,B,C...
3) Identify project, Contractor, subcontractor and supplier; pertinent drawing and detail number, proposal numbercontract number and specification section umber.
4) Provide per submittal one document,` cut sheet or product literature.
5) Sign submittal certifying that review, approval, verification of products, dimensions meet specificaiton.
6) Allow 15 days for review by Trust's rep.
7) Allow space on submittal for Contractor & Trust's Rep. stamps/signature.

Section	Description	Date Required	Date Submitted	Date Approved
01110	Environmental Protection Plan	7 days after award of contract	7-02-01	
01200	Schedule of values	20 days after contract		
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey	N/A		
01330	Progress Schedule	(7 Days after award of contract) 10 days after NTP, Every two weeks after that & with pay estimate.	Ongoing	
01340	HASP & Contingency Plans	With Bid	7-02-01	
01400	Const. Quality Control Plan	14 days prior to constr. activities	7-11-01	

01530	Traffic Management Plan	14 days prior to constr. activities		
01540	Work Security Plan	7 days after award of contract		
02228	Dewatering Plan	With bid		
02300	Waste Handling Plan	With bid	7-05-01	
02325	Waste Characterization, T&D Plan	7 days after award of contract		
02325	Transportation Company Information	With bid		
02325	Disposal Facility Info.	With bid		
02325	Temporary scale product information	20 days prior to bringing material onsite	9-4-01	
02300	For each import soil type 1) Cert Clean Letter virgin source 2) Name of affiant and relationship to the source 3) Location of source, street, town, lot & block #'s, county & state 4) Brief history of site 5) Statement that affiant's knowledge an belief material is not contaminated 6) Analytical data verifying source is clean	20 days prior to bringing material onsite		
02300	Manufactures performance information on equipment to be used for earthwork	20 days prior to bringing material onsite		
02300	Product data for geotextile	20 days prior to bringing material onsite	8-4-01	

02510	Copy of mix design for the bituminous concrete surface and base course	5 days prior to bringing material onsite		
02610	Product Data for pipe culvert and installation instructions	20 days prior to bringing material onsite	9-4-01	
02610	Survey locations and dimensions of pipe culvert	Site close out		
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, slat infill 4) Manufacturer's installation instructions	20 days prior to bringing material onsite		
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work	20 days prior to bringing material onsite		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval	20 days prior to bringing material onsite		
02931	Soil erosion and sediment control 1) Product data silt fence	20 days prior to bringing material onsite	8-28-01	8-28-01

15140	Underground piping & conduit 1) Product data sheets for A) HDPE Piping & fittings B) Conduit & fittings C) Pipe locating tape D) Pipe insulation E) Heat tracing 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	20 days prior to bringing material onsite		

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Meeting Minutes
Progress Meeting #3
Date: September 11, 2001

Attendees:	Bill Lee	de maximis, Inc.
	Maheyar Bilimoria	Tams Consulting
	Jennifer Higgins	Tans Consulting
	Steve Kessel	Brown & Caldwell
	Carla Oliveira	Brown & Caldwell
	Tom Tomassetti	Code Environmental
	Mark Gambucci	Code Environmental
	Marc Cruz	Code Environmental

Items of Discussion:

1) Minutes from previous meeting on September 4, 2001:
   - No comments were offered on previous meeting minutes

2) Work in Progress Sept. 4th through Sept. 11th:
   - Completed clearing and chipping operations
   - Begin grubbing operations
   - Complete limits of excavation survey, start 25' grid
   - Survey limits of disturbance Arko property
   - Complete soil erosion control measures (silt fence) North area, main site & begin along haul road through Arko property
   - Revise sampling methods table and re-submit
   - Revise work plans as corrected and re-submit
   - Continue to generate submittals of materials for incorporation into project
   - Drum characterization

3) Field observations, problems and decisions:
   - Alignment of road way through Arko property and the current condition of asphalt roadway were discussed.
   - Bill indicated a five month window of access along Arko property
   - A site visit will be held after meeting to observe alignment and condition of existing blacktop
   - A cost estimate and impact to project schedule to implement Arko paving

agreement have to be prepared for next progress meeting

- Excavation limits go offsite onto Conrail property
- Steve will discuss with Maheyar after the surveyors locate actual property boundary
- Excavation limits cut off decon pad
- Maheyar indicated limits can be adjusted if it was ok and approved by the Engineer
- Code awaiting approval
- E-Town water crew is not 40 hour OSHA certified
- Maheyar indicated that water crew can be permitted to access there pipe located within the site with an escort and that they also comply with On-Site Health & Safety Plan
- At time of excavation if fence is installed they can watch from behind the fence

4) Identification of problems impending planned progress:
   - Bill asked Steve to supply Tom with a copy of the Arko access agreement letter
   - Existing Arko blacktop driveway condition in disrepair, truck traffic will tear up existing blacktop
   - It was undecided weather to pave prior to truck traffic or wait until project completion to install wear coat
   - Further investigation and cost estimates required to provide guidance
   - Waste classification sampling behind schedule due to sample methods table edits

5) Review of submittal schedule and status of submittals:
   - Reviewed updated submittals and approvals.

6) Maintenance of progress schedule:
   - Progress schedule to be updated for 9-18-2001 meeting
   - Tom offered a verbal update of the project schedule

7) Planned progress during succeeding work period Sept. 11th through Sept. 17th:
   - Survey 25' grid system to develop pre-excavation topo
   - Survey southern most property line for location of fence
   - Grub stumps and stockpile for tub grinding
   - Complete erosion control along Arko access
   - Tanker truck decon and disposal
   - Waste disposal characterization of soil stockpile
   - Sample borrow source
   - Begin construction of haul road pending DGA approval
   - Complete drum classification
   - Begin waste characterization

8) Health and Safety:
   - No injuries or deficiencies reported
   - Code will continue to perform air monitoring to establish background readings
   - Code to begin submitting daily air monitoring reports

9) Other topics of discussion:

- Bill asked to incorporate a QA/QC, approvals and site access item to agenda for next meeting (wetlands, stream encroachment...)
- Piscataway township will handle the inspection for sediment control
- Carla stated that they are still reviewing wetlands and encroachment plans
- Bill asked that a letter be sent to confirm the soil erosion control plan
- Tom indicated he is still waiting for a zoning permit for the office trailers
- Maheyar asked if corrections had been made to drawings
- Steve & Carla state that they are in progress and will be complete in a few days

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Code Environmental Services, Inc.

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Weekly Progress Meeting Sign In Sheet

Date: September 11, 2001

Printed Name	Signature	Company
C. Oliveira	Carla Oliveira	Brown & Caldwell
S. Kessel	[illegible]	Brown and Caldwell
J Higgins	[illegible]	TAMS
MAHEYAR R. BILIMORIA	[illegible]	TAMS
MARC V CRUZ	[illegible]	CODE ENVIRONMENTAL
TOM TOMASSETTI	Thomas Tomassetti	CODE ENV. SERV. INC.
MARK GAMBUCCI	[illegible]	CODE ENVIR. SERV.
Bill Lee	[illegible]	de maximis

Environmental Services, Inc.

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Agenda #4
Progress Meeting
Date: September 18, 2001

1) **Minutes from previous meeting on September 4, 2001:**
   A) Previous meeting minutes distributed to attendees 9/13/2001

2) **Work in Progress Sept. 12th through Sept. 17th:**
   A) Completed grubbing operations
   B) Survey south property line
   B) Continue 25' grid, topo survey
   C) Start tanker truck decon
   D) Complete soil erosion control measures
   E) Install hay bale check dam
   F) Print CQCP and provide five copies as requested to B&C
   G) Continue to generate submittals of materials for incorporation into project
   H) Drum characterization
   I) Soil pile sampling for disposal

3) **Field observations, problems and decisions:**
   A) Excavation limits go offsite onto Conrail property
   B) Excavation limits cut through decon pad
   C) Use of pavement haul road Arko property

4) **Identification of problems impending planned progress:**
   A) Late access agreements with Arko paper
      1) Received design on Friday 9/14/01 awaiting response from asphalt subcontractor (Site Visit on 9/17/01)
   B) Approved RAWP and authorization to begin sampling soil for disposal

5) **Review of submittal schedule and status of submittals:**
   A) See attached table

6) **Maintenance of progress schedule:**
   A) Progress schedule attached

7) **Planned progress during succeeding work period Sept. 18th through Sept. 24th:**

A) Continue Survey 25' grid system to develop pre-excavation topo
B) Tanker truck disposal
C) Sample borrow source
D) Sample RCA source, visit source with B&C
E) Begin construction of haul road
F) Stream crossing Arko Paper
G) Group drums and sample
H) Fence and gate installation along south property line

8) **Health and Safety:**

A) No injuries or deficiencies to report
B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**

A) Local Permits
   1) Zoning
   2) Soil excavation
   3) Land filling permit
   4) Electrical
B) State Permits
   1) Wetlands
   2) Stream Encroachment
   3) Soil erosion control
   4) Arko Property

10) **EPA oversight:**

11) **Additional Comments:**

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: September 18, 2001

Printed Name	Signature	Company
MAHEYAR R. BILIMORIA		TAMS
Jennifer Higgins		TAMS
Steve Kessel		Brown and Caldwell
C. Oliveira		Brown & Caldwell
Bill Lee		de maximis
JOHN BRUZZI		Exxon Mobil
Bonnie Boylan		de maximis
MARC V. CRUZ		CODE
MARK GAMBUCCI		CODE ENVIRONMENTAL

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 5
Progress Meeting
Date: September 26, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Clarification of fence height to be six feet
   - B) Verbal approval of RAWP
   - C) Approval to begin sampling
   - D) Exclusion zone discussion, fence will be relocated to include offsite area
   - E) Gas line marker down in stream, Code indicated this was preexisting
   - F) Stockpile soil sampling

2) **Work in Progress Sept. 18 th through Sep. 26 nd**
   - A) Decon and dispose of tanker truck
   - B) Sample RCA pile with B&C
   - C) Complete survey of 25' grid to develop initial topo
   - D) Continue to generate submittals of materials for incorporation into project
   - E) Developed grouping for drum characterization
   - F) Begin construction of haul road up to 2 nd stream crossing Arko property
   - G) Construct 24" pipe culvert across haul road
   - H) Construct twin 30" pipe culverts across haul road

3) **Field observations, problems and decisions:**
   - A) Split sample with Tams indicate sludge waste generated from tanker may be a TSCA (190ppm) waste
   - B) 401 drums inventoried vs. 370 drums in contract

4) **Identification of problems impending planned progress:**
   - A) *Late access agreements with Arko paper / design drawings*
   - B) Water pumping up through DGABC / Arko property
   - C) Water coming off railroad siding will be captured by haul road / Chemsol property
   - D) Fence contractor has to get 40Hr OSHA trained ironworkers from union hall
   - E) Bad weather (lost two days to rain this week)

5) **Review of submittal schedule and status of submittals:**
   - A) See attached table

6) **Maintenance of progress schedule:**
   A) Revisions due October 2 nd, 2001 progress meeting

7) **Planned progress during succeeding work period Sept. 26 th through Oct. 1 th:**
   A) Complete DGABC Arko haul road
   B) Asphalt pavement Arko haul road to property line
   C) Fence & gate along southern property line (Conrail ROW)
   D) Begin RCA haul road construction on Chemsol property
   E) Begin excavation of non-haz soil under haul road Chemsol property
   F) Sample soil piles in accordance with specifications
   G) Sample first two 5000cy area's for non-haz disposal
   H) Sample drums for disposal

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Zoning re-submitted (9/25)
      2) Soil excavation re-submitted (9/21)
      3) Land filling permit re-submitted (9/21)
      4) Electrical(Bigler) re-submitted (9/25)
   B) State Permits
      1) Wetlands
      2) Stream Encroachment
      3) Soil erosion control
      4) Arko Property

10) **Variances From Specification:**
   A) Sampling frequency in accordance with NJDEP guidance document.

11) **Additional Comments:**

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: September 26, 2001

Printed Name	Signature	Company
Jennifer Higgins		TAMS
Steve Kessel		Brown & Caldwell
Maheyar R. Bilimoria		TAMS
MARC V. CRUZ		CODE
Carla Oliveira	Carla Oliveira	Brown & Caldwell
MARK GAMBUCCI		CONE

Submittals

Chemsol Superfund Site

Current as of September 25, 2001

Section	Description	Date Submitted	Date Approved
01110	Environmental Protection Plan	7-02-01	8-10-01
01200	Schedule of values	7-02-01	9-11-01
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey 4) Survey locations & dimensions of pipe culvert		
01330	Progress Schedule	Ongoing	
01340	HASP & Contingency Plans	7-02-01	9-11-01
01400	Const. Quality Control Plan	7-11-01	9-11-01
01530	Traffic Management Plan		
01540	Work Security Plan	With bid	9-11-01
02228	Dewatering Plan	With bid	9-11-01
02300	Waste Handling Plan	7-05-01	9-11-01
02325	Waste Characterization, T&D Plan	7-05-01	9-11-01
02325	Transportation Company Information	With Bid	9-11-01
02325	Disposal Facility Info.	With Bid	9-11-01
02325	Temporary scale product information	9-4-01	
02300	For each import soil type: 1) Pipe Bedding Material 2) Coarse Stone 3) Rip Rap Material 4) Recycled Concrete Aggregate 5) Topsoil	 9-10-01 9-10-01 9-10-01 9-10-01 9-17-01	9-24-01

02300	Manufactures performance information on equipment to be used for earthwork	9-07-01	
02300	Product data for geotextile	9-04-01	9-24-01
02510	Copy of mix design for the bituminous concrete surface and base course	9-10-01	
02610	Product Data for pipe culvert and installation instructions	9-4-01	9-24-01
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, posts	 9-10-01 9-10-01 9-10-01	
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval		
02931	Soil erosion and sediment control 1) Product data silt fence	 8-28-01	 9-24-01
15140	Underground piping & conduit 1) Product data sheets for A HDPE Piping & fittings B Conduit & fittings C Pipe locating tape D Heat tracing, End seal, Aluminum tape 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	 1) A 9-05-01 B 9-10-01 C 9-10-01 D 9-10-01 2) 9-05-01 3) 9-05-01 4) 5)	
01520	Foam, Foam Unit	9-10-01	

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 6
Progress Meeting
Date: October 2, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Dispose of sludge material generated during tanker cleaning as TSCA waste
   - B) Code Environmental to receive design drawings for Arko access road
   - C) Install geo-composit to facilitate water concerns encountered during haul road construction Arko property
   - D) Install fabric and stone under-drains in haul road to facilitate water runoff
   - E) Modification to Site Specific Health and Safety Plan to allow fence crews to install security fence surrounding site, guidance from Tams HSO
   - F) B&C to develop list of submittals to be forwarded to Tams

2) **Work in Progress Sept. 26 th through Oct.1 nd**
   - A) Construction of haul road
   - B) Fence Installation
   - C) Water management, haul road
   - D) Sampled borrow sources
   - E) Sampled first two 5000 cu.yd. areas for non-Haz disposal
   - F) Sample soil piles in accordance with specifications

3) **Field observations, problems and decisions:**
   - A) 20 cy roll-offs for TSCA soil boring excavations
   - B) Arko haul road in Buckeye ROW
   - C) 24" Pipe culvert needs to be extended
   - D) Depth of Buckeye pipe
   - E) 12" stream culvert

4) **Identification of problems impending planned progress:**
   - A) Reconstruction of Arko haul road to facilitate water drainage

5) **Review of submittal schedule and status of submittals:**
   - A) See attached table

6) **Maintenance of progress schedule:**
   - A) See attached progress schedule

7) **Planned progress during succeeding work period Oct. 2nd through Oct. 9th:**

A) Remove existing fence for haul road construction
B) Excavate non-haz soils under haul road access
C) Finish RCA haul road construction, Chemsol property
D) Complete fence & gates along southern property line (Conrail ROW)
E) Sample drum groupings for disposal
F) Asphalt pavement Arko haul road to property line
G) Survey adjustments to topo
H) Continue stockpile sampling

8) **Health and Safety:**

A) No injuries or deficiencies to report
B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**

A) Local Permits
   1) Zoning re-submitted (9/25), approved (9/25)
   2) Soil excavation re-submitted (9/21)
   3) Land filling permit re-submitted (9/21)
   4) Electrical(Bigler) re-submitted (9/25)

B) State Permits
   1) Wetlands
   2) Stream Encroachment / Verbal approval
   3) Soil erosion control / Done
   4) Arko Property

10) **Variances From Specification:**

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_____

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_____

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_____

11) Additional Comments:

Submittals

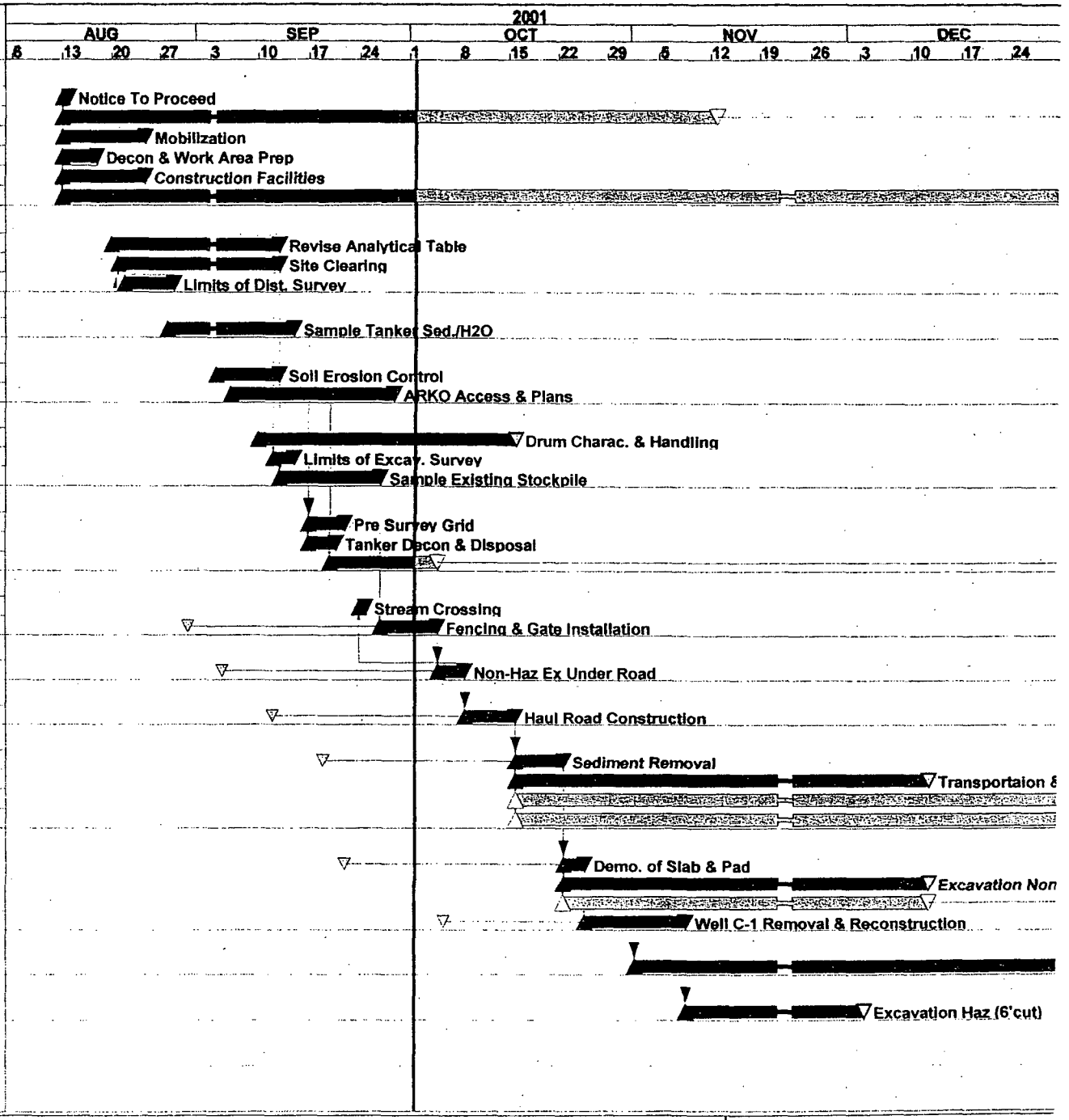
Chemsol Superfund Site

Current as of October 2, 2001

Section	Description	Date Submitted	Date Approved
01110	Environmental Protection Plan	7-02-01	8-10-01
01200	Schedule of values	7-02-01	9-11-01
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey 4) Survey locations & dimensions of pipe culvert		
01330	Progress Schedule	Ongoing	
01340	HASP & Contingency Plans	7-02-01	9-11-01
01400	Const. Quality Control Plan	7-11-01	9-11-01
01530	Traffic Management Plan		
01540	Work Security Plan	With bid	9-11-01
02228	Dewatering Plan	With bid	9-11-01
02300	Waste Handling Plan	7-05-01	9-11-01
02325	Waste Characterization, T&D Plan	7-05-01	9-11-01
02325	Transportation Company Information	With Bid	9-11-01
02325	Disposal Facility Info.	With Bid	9-11-01
02325	Temporary scale product information	9-4-01	9-26-01
02300	For each import soil type: 1) Pipe Bedding Material 2) Coarse Stone 3) Rip Rap Material 4) Recycled Concrete Aggregate 5) Topsoil 6) DGA Material 7) Q P Material	 9-10-01 9-10-01 9-10-01 9-10-01 9-17-01 9-18-01 9-18-01	 9-29-01 9-25-01 9-24-01 9-29-01
02300	Manufactures performance information on equipment to be used for earthwork	9-07-01	
02300	Product data for geotextile	9-04-01	9-24-01

02510	Copy of mix design for the bituminous concrete surface and base course	9-10-01	Not Approved
02510	Copy of mix design for the bituminous concrete surface and base course	9-26-01	9-28-01 As Noted
02610	Product Data for pipe culvert and installation instructions	9-4-01	9-24-01
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, posts	 9-10-01 9-10-01 9-10-01	 10-1-01 10-1-01
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval		
02931	Soil erosion and sediment control 1) Product data silt fence	 8-28-01	 9-24-01
15140	Underground piping & conduit 1) Product data sheets for A HDPE Piping & fittings B Conduit & fittings C Pipe locating tape D Heat tracing, End seal, Aluminum tape 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	 1) A 9-05-01 B 9-10-01 C 9-10-01 D 9-10-01 2) 9-05-01 3) 9-05-01 4) 5)	 10-2-01
01520	Foam, Foam Unit	9-10-01	9-26-01
	Stream Diversion Plan	9-19-01	9-26-01

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	12NOV01
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	175*	13AUG01A	17APR02
0AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
7AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
3SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
0SEP01				
145	Drum Charac. & Handling	30	10SEP01A	15OCT01
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
7SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	04OCT01
4SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Installation	5	27SEP01A	04OCT01
1OCT01				
125	Non-Haz Ex Under Road	2	05OCT01	08OCT01
8OCT01				
105	Haul Road Construction	5	09OCT01	15OCT01
5OCT01				
195	Sediment Removal	5	16OCT01	22OCT01
205	Transportaion & Disposal	40	16OCT01	12DEC01
225	Water & Dust Control	63	16OCT01	14JAN02
295	Traffic Control	63	16OCT01	14JAN02
2OCT01				
165	Demo. of Slab & Pad	3	23OCT01	25OCT01
185	Excavation Non-Haz (2'cut)	35	23OCT01	12DEC01
275	Post Excav. Survey	35	23OCT01	12DEC01
235	Well C-1 Removal &	10	26OCT01	08NOV01
9OCT01				
215	Backfill	40	02NOV01	31DEC01
5NOV01				
175	Excavation Haz (6'cut)	15	09NOV01*	03DEC01
1DEC01				
245	Topsoil	10	01JAN02	14JAN02
4JAN02				
335	Temp. Soil Stab. Winter	5	15JAN02	21JAN02



Project Start	06AUG01		Early Bar
Project Finish	19APR02		Float Bar
Data Date	02OCT01		Progress Bar
Run Date	02OCT01		Critical Activity

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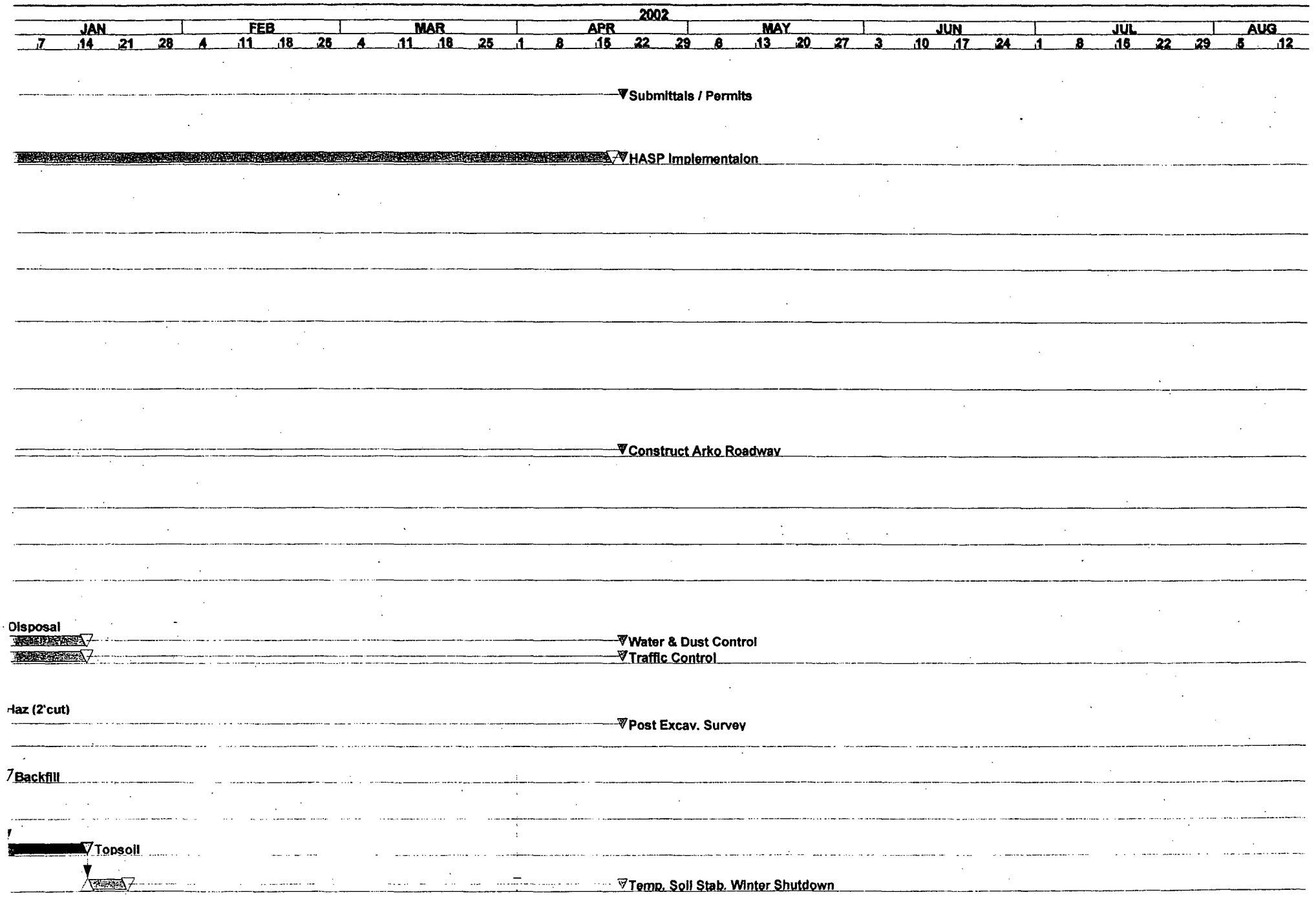
CHEM

Code Environmental Services, Inc

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout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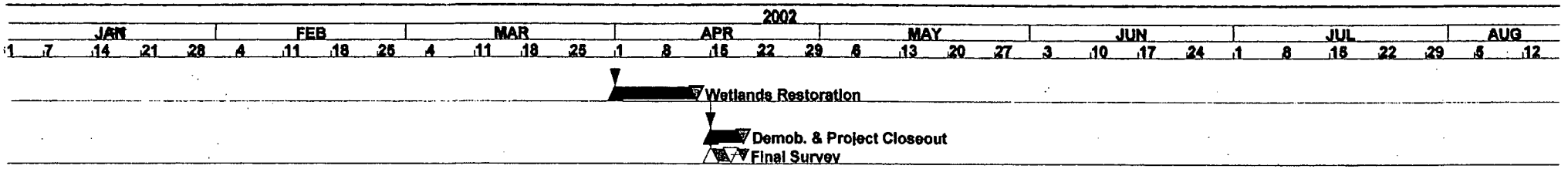
Submittals / Permits
HASP Implementaion
Construct Arko Roadway
Disposal
Water & Dust Control
Traffic Control
Haz (2'cut)
Post Excav. Survey
Backfill
Topsoil
Temp. Soil Stab. Winter Shutdown

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02

2001

AUG: 6, 13, 20, 27 | SEP: 3, 10, 17, 24 | OCT: 1, 8, 15, 22, 29 | NOV: 5, 12, 19, 26 | DEC: 3, 10, 17, 24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1 7 14 21 28 4 11 18 25 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12
Wetlands Restoration
Demob. & Project Closeout
Final Survey

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: September 26, 2001

Printed Name	Signature	Company
Jennifer Higgins		TAMS
Steve Kessel		Brown & Caldwell
Mahegyar R. Bilimoria		TAMS
MARC V. CRUZ		CODE
Carla Oliveira	Carla Oliveira	Brown & Caldwell
MARK GAMBUCCI		CONE

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 7
Progress Meeting
Date: October 9, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Agreed to use truck quantity to meet excavation limits for the six PCB soil boring excavations
   - B) Excavation over Buckeye pipeline will be limited to Buckeye restriction
   - C) Excavation will be sloped over pipe, post excavation samples collected at that point
   - D) If "hot-spots" encountered hand excavation over pipe will be required
   - E) Received written approval for wetlands and stream encroachment permits
   - F) Bill Lee attended Piscataway citizen action committee meeting last Thursday
   - G) Need to get a copy of the Arko access agreement from Allison
   - H) Excess DGABC required to stabilize Arko haul road

2) **Work in Progress Oct. 2nd through Oct. 8th**
   - A) Complete sub-base & geocomposit installation Arko haul road
   - B) Extend 24" culvert pipes Arko haul road
   - C) Place 4" I-2 asphalt base course Arko haul road
   - D) Complete fence and gate installation on south boundry
   - E) Survey north ditch and six PCB soil boring locations
   - F) Complete sampling of stockpiled soils
   - G) Sampled two more 5000 cu.yd. areas for non-Haz disposal
   - F) Sample drum groupings for disposal
   - G) Drain water from PPE / Poly drums
   - H) Begin consolidation of PPE / Poly drums for disposal in 30cy roll off
   - I) Begin removal of trees (4 loads)
   - J) Remove fence for haul road excavation
   - K) Begin excavation of soils from under haul road
   - L) Begin installation of Arko roll gate
   - M) Begin installation of North area fencing

3) **Field observations, problems and decisions:**
   - A) Water holding in most of North excavation area

4) **Identification of problems impending planned progress:**
   A) Possible hand excavation over Buckeye pipeline
   B) Having trouble locating Jersey Barrier for Buckeye pipeline

5) **Review of submittal schedule and status of submittals:**
   A) See attached table

6) **Maintenance of progress schedule:**
   A) Revised schedule due Oct. 16th meeting

7) **Planned progress during succeeding work period Oct. 9th through Oct. 15th:**
   A) Complete removal of trees
   B) Grind stumps
   C) Installation of 3" HDPE effluent line
   D) Post excavation survey of excavation under haul road
   E) Continue fencing along north end of excavation limits
   F) Complete compositing of PPE / Poly drums
   G) Load out removed chain link fence for disposal / recycle, include empty drums
   H) Submit waste profiles Linden landfill
   I) Submit waste profiles CWM "TSCA" soil boring disposal
   J) Remove existing 10" HDPE pipe and replace with 12" CMCP

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Zoning, approved (9/25)
      2) Soil excavation re-submitted (9/21)
      3) Land filling permit re-submitted (9/21)
      4) Electrical(Bigler) re-submitted (9/25)
      5) Fire permit submitted (9/25)
      6) Building permit re-submitted (9/25)
   B) State Permits
      1) Wetlands, approved
      2) Stream Encroachment, approved
      3) Soil erosion control / Done
      4) Arko Property

10) Variances From Specification:

A) None

11) Additional Comments:

Submittals

Chemsol Superfund Site

Current as of October 9, 2001

Section	Description	Date Submitted	Date Approved
01110	Environmental Protection Plan	7-02-01	8-10-01
01200	Schedule of values	7-02-01	9-11-01
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey 4) Survey locations & dimensions of pipe culvert		
01330	Progress Schedule	Ongoing	Ongoing
01340	HASP & Contingency Plans	With bid	9-11-01
01400	Const. Quality Control Plan	With bid	9-11-01
01530	Traffic Management Plan		
01540	Work Security Plan	With bid	9-11-01
02228	Dewatering Plan	With bid	9-11-01
02300	Waste Handling Plan	With bid	9-11-01
02325	Waste Characterization, T&D Plan	With bid	9-11-01
02325	Transportation Company Information	With Bid	9-11-01
02325	Disposal Facility Info.	With Bid	9-11-01
02325	Temporary scale product information	9-4-01	9-26-01
02300	For each import soil type: 1) Pipe Bedding Material 2) Coarse Stone 3) Rip Rap Material 4) Recycled Concrete Aggregate 5) Topsoil 6) DGA Material 7) Q P Material	 9-10-01 9-10-01 9-10-01 9-10-01 9-17-01 9-18-01 9-18-01	 9-29-01 9-25-01 9-24-01 10-3-01 9-29-01
02300	Manufactures performance information on equipment to be used for earthwork	9-07-01	
02300	Product data for geotextile	9-4-01	9-24-01

02510 02510	Copy of mix design for the bituminous concrete surface and base course Copy of mix design for the bituminous concrete surface and base course	9-10-01 9-26-01	Not Approved 9-28-01 As Noted
02610	Product Data for pipe culvert and installation instructions	9-4-01	9-24-01
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, posts	 9-10-01 9-10-01 9-10-01	 10-1-01 10-1-01
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval		
02931	Soil erosion and sediment control 1) Product data silt fence	 8-28-01	 9-24-01
15140	Underground piping & conduit 1) Product data sheets for A HDPE Piping & fittings B Conduit & fittings C Pipe locating tape D Heat tracing, End seal, Aluminum tape 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	 1) A 9-05-01 B 9-10-01 C 9-10-01 D 9-10-01 2) 9-05-01 3) 9-05-01 4) 5)	 10-3-01 10-2-01 10-3-01 10-3-01 10-3-01
01520	Foam, Foam Unit	9-10-01	9-26-01
	Stream Diversion Plan	9-19-01	9-26-01

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: October 2nd, 2001

Printed Name	Signature	Company
Jennifer Higgins		TAMS
Maheyar R. Bilimoria		TAMS
Helen Pang	Helen Pang	TAMS
MARC Y. CRUZ		CODE
THOMAS TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI		CODE
Bill Lee		demaximus
Steve Kessel		Brown and Caldwell
Carla Oliveira	Carla Oliveira	Brown & Caldwell

Nigel Robinson } EPA via telecent.
John Prince

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 8
Progress Meeting
Date: October 16,2001

1) **Comments From Previous Progress Meeting:**
   - A) Jersey Barrier is difficult to find site now because it is in use
   - B) Concrete blocks measuring 3 x 3 x5 may be used instead of Jersey Barriers as means of a physical barrier - contact Buckeye Pipeline with any change (Actual size is 2' x 2' x 6')
   - C) Submittals not presented to the EPA in a timely manner
   - D) Monitoring wells still unlocked and caps in need of repair

2) **Work in Progress October 10th through October 15th:**
   - A) Excavated 2' cut under haul road, stockpile & cover
   - B) Survey post excavation under haul road cut
   - C) Survey in HDPE pipe trench
   - D) Begin to final grade and topsoil gutters on haul road Arko property
   - E) Mulched and seeded areas disturbed along Buckeye pipeline Arko property
   - F) Installed Arko roll gate
   - G) Excavated soft soil at construction entrance for RCA haul road
   - H) Trenched for HDPE effluent line
   - I) Installed & hydrostatic tested 3" HDPE effluent line
   - J) Continue installation of fence along North property boundary
   - K) Tub grinder completed stump grinding
   - L) Disposed of five loads of chain link fence, posts & empty drums
   - M) Removed existing 10" HDPE pipe for haul road construction
   - N) Submit waste profiles to Linden landfill for non-haz soils
   - O) Submit waste profiles to Bill Lee for CWM (TSCA & RCRA/TSCA soils)
   - P) Haul road construction

3) **Field observations, problems and decisions:**
   - A) None

4) **Identification of problems impending planned progress:**
   - A) Still have not located available Jersey Barrier
   - B) Gerhart Scale delivery delayed

5) **Review of submittal schedule and status of submittals:**
   A) See attached table

6) **Maintenance of progress schedule:**
   A) See attached table

7) **Planned progress during succeeding work period Oct. 16th through Oct. 22nd:**
   A) Sample remaining two areas for non-haz disposal
   B) Begin disposal of drums (six non-haz oil and water drums)
   C) Continue RCA haul road construction
   D) Installation of 12" CMCP under RCA haul road stream B1
   E) Complete fence North end of project
   F) Complete restoration of Arko gutters with topsoil, seed & mulch
   G) Install scale
   H) Empty drums on stockpile pending review of analytical
   I) Scrap drum carcases
   J) Begin sediment removal North ditch, stockpile for disposal
   K) Submit waste profiles for VOC contaminated soils

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Zoning, approved (9/25)
      2) Soil excavation re-submitted (9/21)
      3) Land filling permit re-submitted (9/21)
      4) Electrical, approved (10/15)
      5) Fire permit, approved (10/15)
      6) Building permit, approved (10/15)
   B) State Permits
      1) Wetlands, approved
      2) Stream Encroachment, approved
      3) Soil erosion control / Done
      4) Arko Property

10) **Variances From Specification:**
   A) Six inch detectable tape used instead of 12" (not available)

11) **Additional Comments:**

Submittals

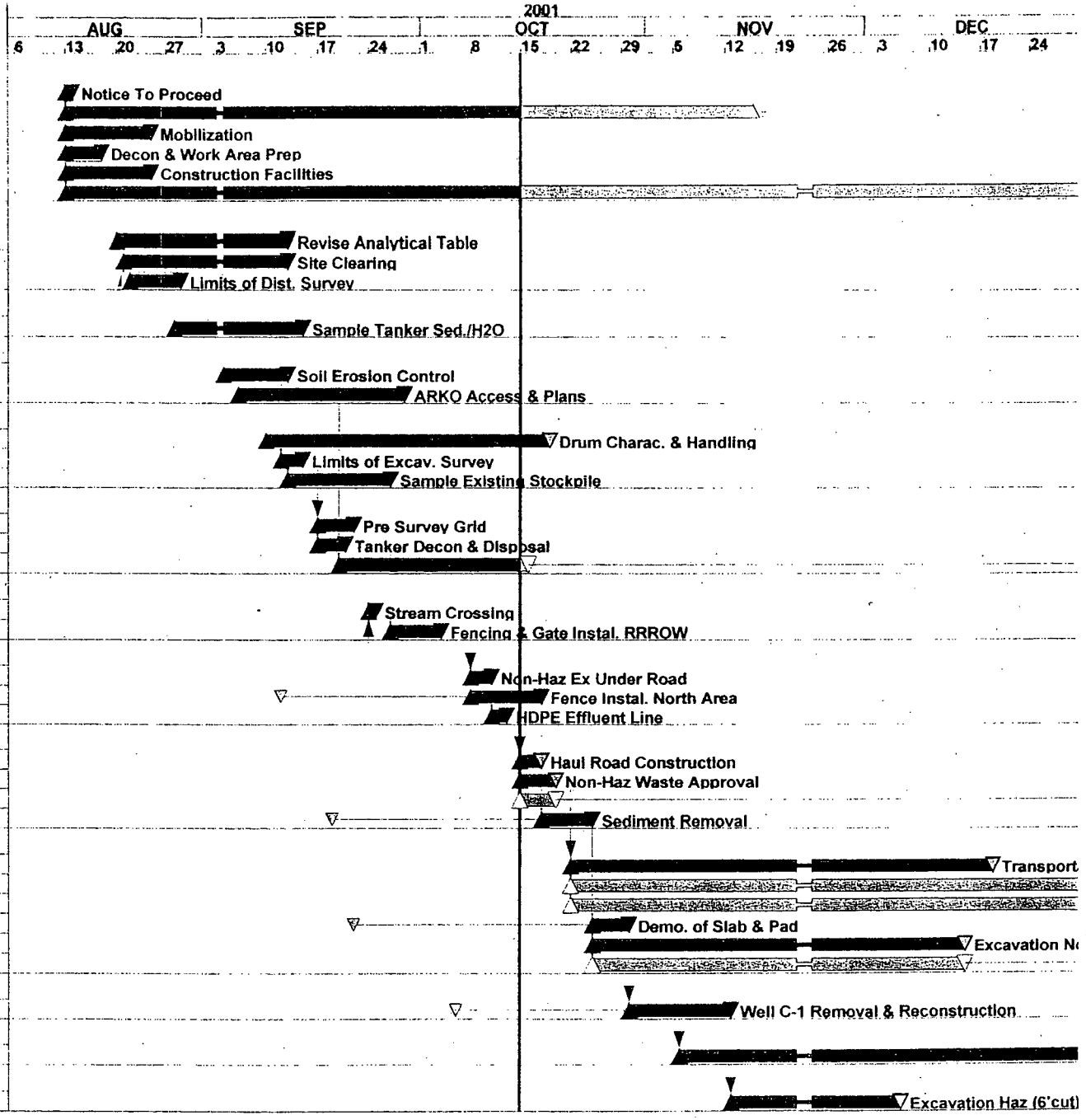
Chemsol Superfund Site

Current as of October 16, 2001

Section	Description	Date Submitted	Date Approved
01110	Environmental Protection Plan	7-02-01	8-10-01
01200	Schedule of values	7-02-01	9-11-01
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey 4) Survey locations & dimensions of pipe culvert	10-9-01	
01330	Progress Schedule	Ongoing	Ongoing
01340	HASP & Contingency Plans	With bid	9-11-01
01400	Const. Quality Control Plan	With bid	9-11-01
01530	Traffic Management Plan	10-9-01	
01540	Work Security Plan	With bid	9-11-01
02228	Dewatering Plan	With bid	9-11-01
02300	Waste Handling Plan	With bid	9-11-01
02325	Waste Characterization, T&D Plan	With bid	9-11-01
02325	Transportation Company Information	With Bid	9-11-01
02325	Disposal Facility Info.	With Bid	9-11-01
02325	Temporary scale product information	9-4-01	9-26-01
02300	For each import soil type: 1) Pipe Bedding Material 2) Coarse Stone 3) Rip Rap Material 4) Recycled Concrete Aggregate 5) Topsoil 6) DGA Material 7) Q P Material 8) Subsoil Material Sieve Analysis and Analytical	 9-10-01 9-10-01 9-10-01 9-10-01 9-17-01 9-18-01 9-18-01 10-9-01	 9-29-01 9-25-01 9-24-01 10-3-01 9-29-01
02300	Manufactures performance information on equipment to be used for earthwork	9-07-01	

02300	Product data for geotextile	9-4-01	9-24-01
02510 02510	Copy of mix design for the bituminous concrete surface and base course Copy of mix design for the bituminous concrete surface and base course	9-10-01 9-26-01	Not Approved 9-28-01 As Noted
02610	Product Data for pipe culvert and installation instructions	9-4-01	9-24-01
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, posts	 9-10-01 9-10-01 9-10-01	 10-1-01 10-1-01
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval		
02931	Soil erosion and sediment control 1) Product data silt fence	 8-28-01	 9-24-01
15140	Underground piping & conduit 1) Product data sheets for A HDPE Piping & fittings B Conduit & fittings C Pipe locating tape D Heat tracing, End seal, Aluminum tape 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	 1) A 9-05-01 B 9-10-01 C 9-10-01 D 9-10-01 2) 9-05-01 3) 9-05-01 4) 5) 10-10-01	 10-3-01 10-2-01 10-3-01 10-3-01 10-3-01 10-10-01
01520	Foam, Foam Unit	9-10-01	9-26-01
02300	Stream Diversion Plan (Transmittal)	9-19-01	9-26-01
01520	Foam Unit	10-9-01	

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	16NOV01
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	175*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	18OCT01
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	15OCT01
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	17OCT01
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	17OCT01
385	Non-Haz Waste Approval	5	15OCT01	19OCT01
405	Install Scale	5	15OCT01	19OCT01
195	Sediment Removal	5	18OCT01	24OCT01
22OCT01				
205	Transportaion & Disposal	40	22OCT01	18DEC01
225	Water & Dust Control	63	22OCT01	18JAN02
295	Traffic Control	63	22OCT01	18JAN02
165	Demo. of Slab & Pad	3	25OCT01	29OCT01
185	Excavation Non-Haz (2'cut)	35	25OCT01	14DEC01
275	Post Excav. Survey	35	25OCT01	14DEC01
29OCT01				
235	Well C-1 Removal &	10	30OCT01	12NOV01
05NOV01				
215	Backfill	40	06NOV01	02JAN02
12NOV01				
175	Excavation Haz (6'cut)	15	13NOV01*	05DEC01



Project Start	06AUG01	Early Bar
Project Finish	19APR02	Float Bar
Data Date	15OCT01	Progress Bar
Run Date	18OCT01	Critical Activity

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CHEM

Sheet 1A of 28

Code Environmental Services, Inc.

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

2002

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1 7 14 21 28	4 11 18 25	4 11 18 25	1 8 15 22 29	6 13 20 27	3 10 17 24	1 8 15 22 29	5 12

Submittals / Permits

HASP Implementaion

Construct Arko Roadway

Install Scale

on & Disposal

Water & Dust Control

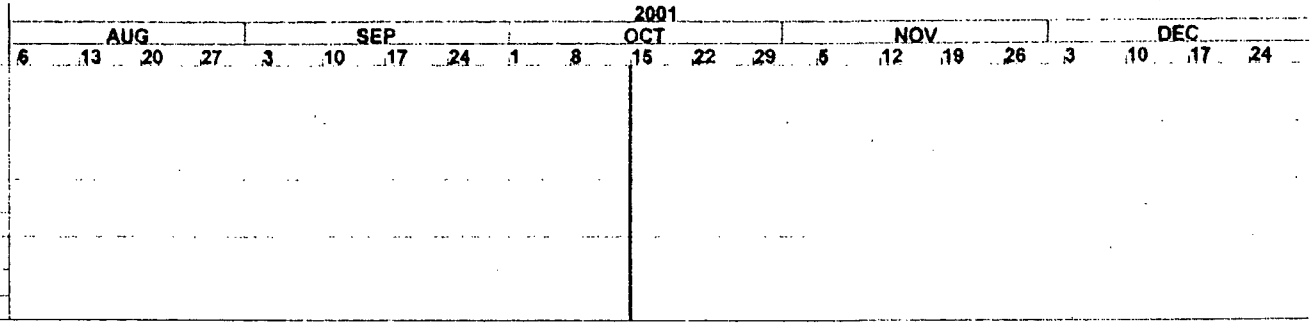
Traffic Control

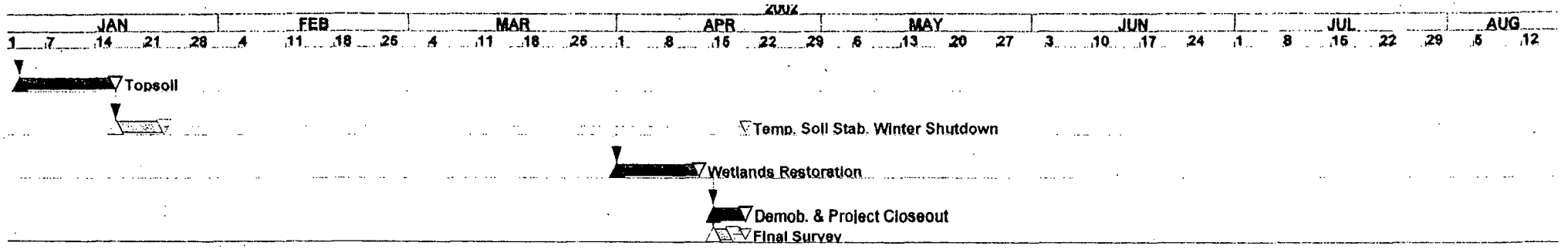
-Haz (2'cut)

Post Excav. Survey

Backfill

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
31DEC01				
245	Topsoil	10	03JAN02	16JAN02
14JAN02				
335	Temp. Soil Stab. Winter	5	17JAN02	23JAN02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02




2002
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MAY
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AUG
1 7 14 21 28 4 11 18 25 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12
Topsoil
Temp. Soil Stab. Winter Shutdown
Wetlands Restoration
Demob. & Project Closeout
Final Survey

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: October 9th,2001

Printed Name	Signature	Company
MAHEYAR R. BILIMORIA	[illegible]	TAMS
Jennifer L Higgins	[illegible]	TAMS
JOHN BRUZZI	John Bruzzi	Exxon Mobil
Steve Kessel	[illegible]	Brown and Caldwell
MARC V. CRUZ	[illegible]	CODE
TOM TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI	[illegible]	CODE
Carla Olivera	Carla Olivera	Brown & Caldwell
NIGEL [illegible]	[illegible]	[illegible]

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 9
Progress Meeting
Date: October 23, 2001

1) **Comments From Previous Progress Meeting:**
   - A) B&C ordered a case of locks keyed alike for the monitoring wells
   - B) B&C to provide metal labels indicating well numbers
   - C) EPA will try to locate and provide numbers for the on site monitoring wells to B&C
   - D) B&C to draft letter in response to deed notice/conservation easement
   - E) Omit approved permits from meeting agenda
   - F) On-site wood chips to be used as "drying agent" for wet soils

2) **Work in Progress October 16th through October 22nd:**
   - A) Fence installation complete including gates and barbed wire North end
   - B) Completed safety fence along Buckeye pipeline Chemsol property
   - C) Installed top soil to gutters along Arko area haul road, seeded and mulched
   - D) Installed 12" CMCP across haul road, stream 1-B
   - E) Miter twin 30 culvert pipes
   - F) Begin to empty drums for T & D
   - G) Sampled area 4 for waste characterization
   - H) Repair and reconfigure piping sump containment and holding tank at de-con pad
   - I) Installed scale on de-con pad
   - J) Installed concrete blocks along Arko access road/Buckeye Pipeline
   - K) Recycle fence fabric and posts
   - L) Recycled six drums of oil & water to Lorco (155 gallons)
   - M) Submitted waste profiles for TSCA soils to Chem. Waste

3) **Field observations, problems and decisions:**
   - A) Utility pole in excavation must be moved prior to working in that area according to PSE&G and Verizon (Cost involved)
   - B) Hand excavation over Buckeye pipeline
   - C) Arko clearing drainage ditch along haul road, diesel spill
   - D) Code using 2'x2'x6' concrete blocks in leu Jersey barrier

4) **Identification of problems impending planned progress:**
   - A) Waiting for approval from disposal facilities

5) **Review of submittal schedule and status of submittals:**
   A) See attached table

6) **Maintenance of progress schedule:**
   A) Progress Schedule due 10/30/01

7) **Planned progress during succeeding work period Oct. 23rd through Oct. 29th:**
   A) Complete drum handing
   B) Complete installation of concrete barrier blocks Arko property
   C) Repair silt fence along haul road
   D) Excavation of North ditch
   E) Begin transportation and disposal of non-haz soils to Linden landfill
   F) Obtain approvals for TSCA soils and schedule

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Soil excavation re-submitted (pending) (9/21)
      2) Land filling permit re-submitted (pending) (9/21)
   B) State Permits
      1) Code responded to wetlands equivalency letter

10) **Variances From Specification:**
   A) ASTM standard for sieve analysis different than specification
   B) No TCLP data for Group D, drums, Oil/Water

11) **Additional Comments:**

Submittals

Chemsol Superfund Site

Current as of October 23, 2001

Section	Description	Date Submitted	Date Approved
01110	Environmental Protection Plan	7-02-01	8-10-01
01200	Schedule of values	7-02-01	9-11-01
01300	Administrative Requirements 1) Pre-Excavation Survey 2) Post-Excavation Survey 3) Site Retoration Survey 4) Survey locations & dimensions of pipe culvert	10-9-01	
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02325	Disposal Facility Info.	With Bid	9-11-01
02325	Temporary scale product information	9-4-01	9-26-01
02300	For each import soil type: 1) Pipe Bedding Material 2) Coarse Stone 3) Rip Rap Material 4) Recycled Concrete Aggregate 5) Topsoil 6) DGA Material 7) Q P Material 8) Subsoil Material Sieve Analysis and Analytical	 9-10-01 9-10-01 9-10-01 9-10-01 9-17-01 9-18-01 9-18-01 10-9-01	 9-29-01 9-25-01 9-24-01 10-3-01 9-29-01 10-16-01
02300	Manufactures performance information on equipment to be used for earthwork	9-07-01	

02300	Product data for geotextile	9-4-01	9-24-01
02510 02510	Copy of mix design for the bituminous concrete surface and base course Copy of mix design for the bituminous concrete surface and base course	~~9-10-01~~ 9-26-01	Not Approved 9-28-01 As Noted
02610	Product Data for pipe culvert and installation instructions	9-4-01	9-24-01
02821	Fencing 1) Shop drawings indicating layout plan, spacing of components, post foundation dimensions, hardware anchorage, gates and schedule of components 2) Product data sheets on fabric, posts, accessories, fitting and hardware 3) Sample (2) of fabric, posts	 9-10-01 9-10-01 9-10-01	 10-1-01 10-1-01
02924	Seeding 1) Data for seed mix, fertilizer, mulch and any other accessories 2) Manufacturer's certificate of compliance 3) Seeding schedule for approval prior to work		
02925	Wetlands Restoration 1) Product data for plantings, fertilizer, and any other accessories 2) Schedule for planting for approval		
02931	Soil erosion and sediment control 1) Product data silt fence	 8-28-01	 9-24-01
15140	Underground piping & conduit 1) Product data sheets for A HDPE Piping & fittings B Conduit & fittings C Pipe locating tape D Heat tracing, End seal, Aluminum tape 2) Manufacturer's installation inst. 3) Manufacturer's certifications 4) Schedule for piping before work begins 5) Testing method for hydrostatic test	 1) A 9-05-01 B 9-10-01 C 9-10-01 D 9-10-01 2) 9-05-01 3) 9-05-01 4) 5) 10-10-01	 10-3-01 10-2-01 10-3-01 10-3-01 10-3-01 10-10-01
01520	Foam, Foam Unit	9-10-01	9-26-01
02300	Stream Diversion Plan (Transmittal)	9-19-01	9-26-01
01520	Foam Unit	10-9-01	

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **October 16th,2001**

Printed Name	Signature	Company
CARLA OLIVEIRA	Carla Oliveira	Brown & Caldwell
Jennifer Higgins	[illegible]	TAMS
Maheyar R. Bilimoria	[illegible]	TAMS
Nigel Robinson	[illegible]	EPA
THOMAS TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI	Mark Gambucci	CODE
Bill Lee	[illegible]	demaximis
Steve Kessel	[illegible]	Brown and Caldwell
JOHN BRUGGI	John Bruggi	Exxon Mobil

Code
Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 10
Progress Meeting
Date: October 30, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Metal Identification numbers will be placed on well heads during quarterly sampling or when drillers are onsite
   - B) Nigel to contact Paul Harvey for well ID's
   - C) Two EPA ID numbers associated with the site, Nigel said one number may be the Superfund ID # and the other may be the RCRA #, Nigel will follow up on the EPA ID numbers
   - D) Bill Lee indicated there is one already in place with de maximis as contact and he would like to use that one
   - E) CODE to contact PSE&G to establish radius of material not to be disturbed surrounding utility
   - F) Machine excavation & sampling around Buckeye pipeline
   - G) B & C to draft letter to confirm oil spill on Arko access road, document seeded areas that were disturbed by Arko's contractor, document that only existing soils were used for grading North side of paved road
   - H) CODE is supplied a partial copy of the ROD to provide to CWM for waste approval
   - I) CODE to sign Non-Haz manifest as per the contract, Bill Lee or a de maximis representative to sign all Haz manifests
   - J) Inform EPA of any "variances" to the contract
   - K) Code to prepare a form to make notification for variances to specification, submit prior to making change when possible
   - L) If a response is required by Tams quicker than the weekly meetings phone as needed
   - M) No TCLP sample was taken on the oily/water drums due to the fact the MDL's would be so high they would be hazardous by definition, based on data gathered during the drum ID and the knowledge of how oil affects the sample we made a field decision at the point of sample collection
   - N) B&C asked if data validation is required for post excavation samples, EPA will discuss this with NJDEP and get back to B&C
   - O) Bill Lee indicated an email will be drafted and sent to EPA to explain their reasoning not to perform data validation

2) **Work in Progress October 23rd through October 29th:**
   A) Completed machine excavation over Buckeye pipeline, any further excavation will have to be by hand
   B) Install concrete barrier blocks along paved haul road, Arko property
   C) Completed stockpiling of drummed soils & crushing drums
   D) Install clean tracking pad between haul road and de-con pad
   E) Cleaned de-con pad sump area
   F) Made repairs to scale
   G) Excavated stream bed 1-B sediments North end of project
   H) Received TSCA waste approvals from CWM
   I) Loaded and transported non-haz material to Linden Landfill
   J) Continue repairs to silt fence

3) **Field observations, problems and decisions:**
   A) PSEG utility pole in excavation, need to maintain a five foot radius around pole and guide wires anchors

4) **Identification of problems impending planned progress:**
   A) None

5) **Review of submittal schedule and status of submittals:**
   A) See attached table (no changes since last week)

6) **Maintenance of progress schedule:**
   A) See attached schedule

7) **Planned progress during succeeding work period Oct. 23rd through Oct. 29th:**
   A) Continue excavation, transportation and disposal of non-hazardous soils to Linden landfill
   B) Excavate, sample, transportation and disposal of TSCA soils to CWM
   C) Complete waste profiles for secondary Non-Haz disposal facility (Casie) and submit permits for approval
   D) Load steel drums for scrap recycling to Naporano Iron and Metal
   E) Load out soil stockpile to Linden landfill

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Soil excavation re-submitted (pending) (9/21)
      2) Land filling permit re-submitted (pending) (9/21)
   B) State Permits
      1) No comments

10) **Variances From Specification:**

A) None to report

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	04DEC01
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
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305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
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325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
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85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
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145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
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155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
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115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
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165	Demo. of Slab & Pad	3	29OCT01	31OCT01
185	Excavation Non-Haz (2'cut)	35	29OCT01	18DEC01
275	Post Excav. Survey	35	29OCT01	18DEC01
235	Well C-1 Removal &	10	01NOV01	14NOV01
05NOV01				
215	Backfill	40	08NOV01	08JAN02
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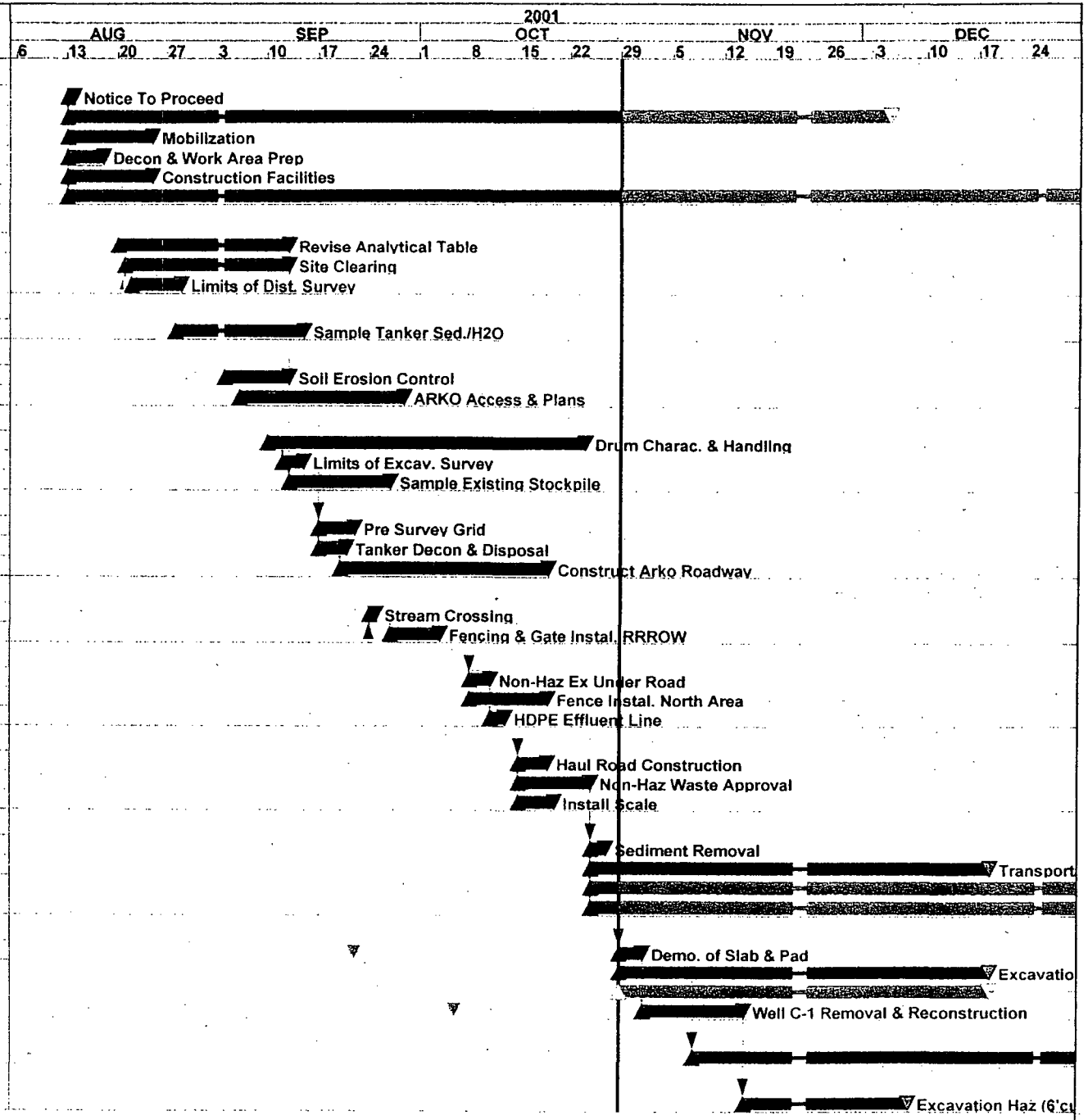
175	Excavation Haz (6'cut)	15	15NOV01*	07DEC01



Project Start	06AUG01	Early Bar
Project Finish	19APR02	Float Bar
Data Date	29OCT01	Progress Bar
Run Date	30OCT01	Critical Activity

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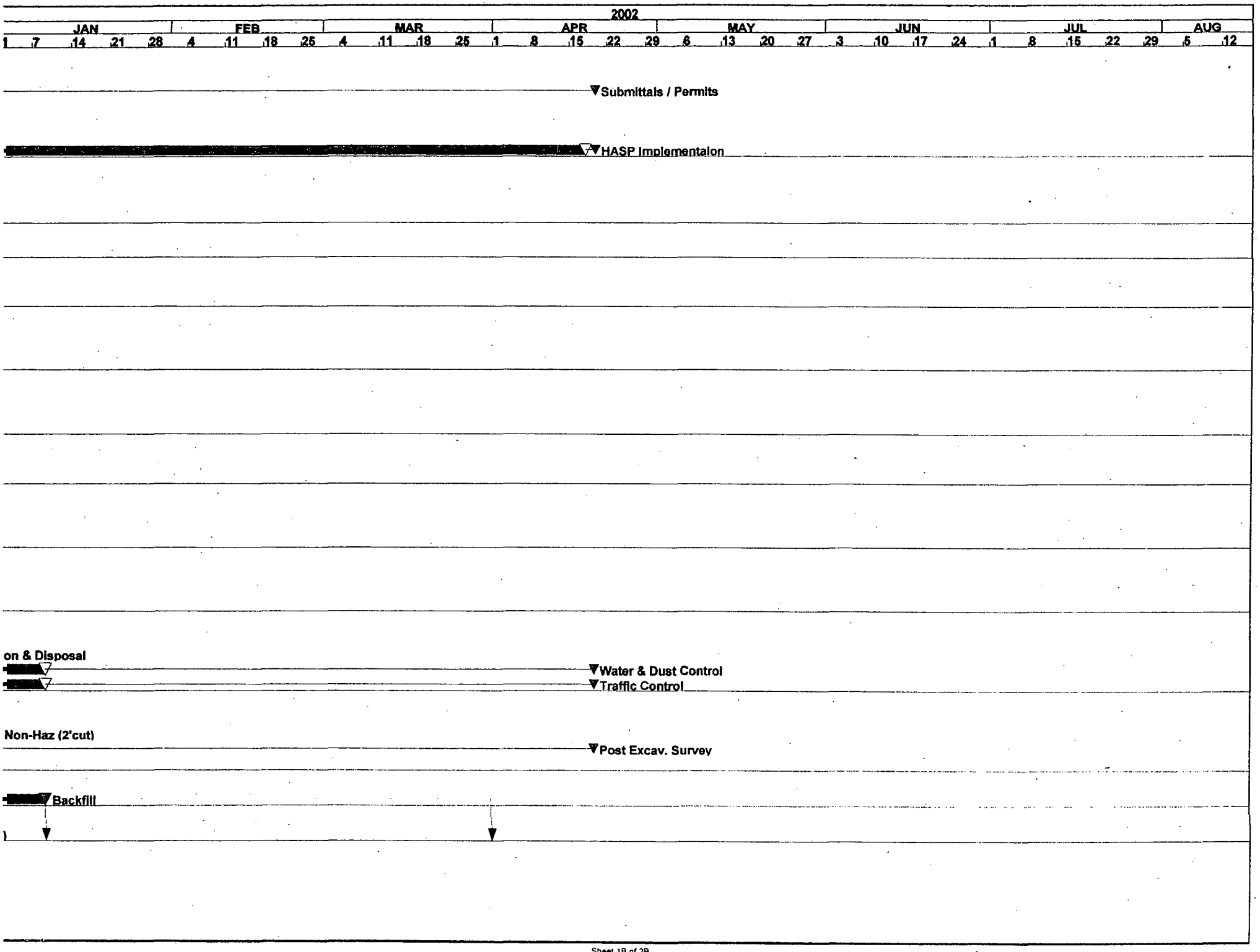
CHEM

Sheet 1A of 2B

Cole Environmental Services, Inc

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout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Submittals / Permits
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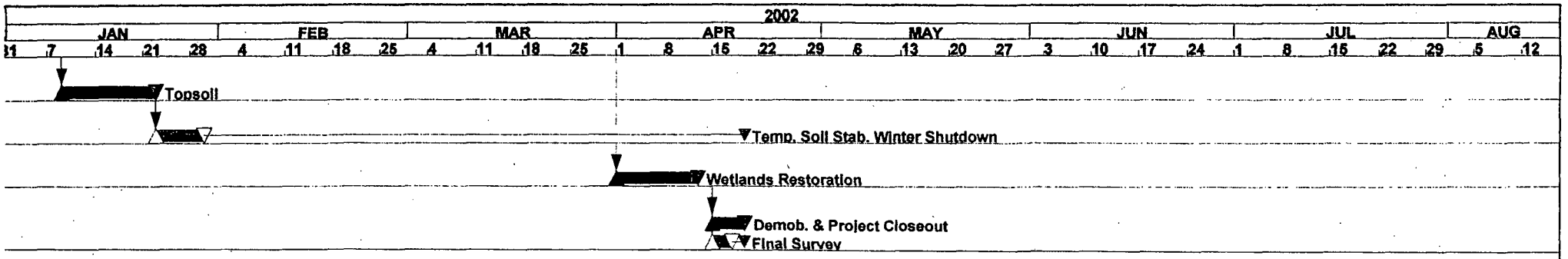
Non-Haz (2'cut)
Post Excav. Survey
Backfill

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
07JAN02				
245	Topsoil	10	09JAN02	22JAN02
21JAN02				
335	Temp. Soil Stab. Winter	5	23JAN02	29JAN02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02

2001

AUG: 6, 13, 20, 27 | SEP: 3, 10, 17, 24 | OCT: 1, 8, 15, 22, 29 | NOV: 5, 12, 19, 26 | DEC: 3, 10, 17, 24


2002
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Topsoil
Temp. Soil Stab. Winter Shutdown
Wetlands Restoration
Demob. & Project Closeout
Final Survey

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **October 23rd,2001**

Printed Name	Signature	Company
Jennifer Higgins		TAMS
Mahzar R. Bilimoria		TAMS
CARLA OLIVEIRA	Carla Oliveira	Brown & Caldwell
Steve Kessel		Brown & Caldwell
Bill Lee		de maximis
MARK GAMBUCCI		CODE
THOMAS TOMASSETTI		CODE
Gary DiPippo		Brown & Caldwell
NIGEL ROBINSON	CONFERENCE CALL	EPA

"Complete Solutions to Your Environmental Concerns"

Agenda # 11
Progress Meeting
Date: November 6th, 2001

1) **Comments From Previous Progress Meeting:**
   - A) B&C will initiate a well search to determine well numbers
   - B) EPA stated that both site EPA ID #s will be de-activated, a letter (e-mail) will have to be drafted to re-activate the EPA I D #, it was discussed to use the ID # already being used by CWM & with the de-maximis contact info
   - C) A determination was made by de-maximis to remove the utility pole within the excavation limits, the utility pole will be decontaminated and taken off-site by PSE&G, Code to arrange for work to be completed
   - D) A field determination was made by B&C to over excavate sediments in stream 1-B along the Northern most section, EPA and Tams were in agreement with the depth and limits of excavation
   - E) The 18" depth over the Buckeye pipeline appears to be ok as per preliminary analytical results, de-maximus would like to see analytical results < 1 ppm for PCB's over buckeye pipeline, a final determination will be made after receipt of hard copy from laboratory, backfill over the pipeline will be RCA material
   - F) EPA to review GROWS permit for approval should hear something by 11/2/01
   - G) B&C asked if there was any issues with oversized material at the landfill, CODE indicated that they were segregating material on-site and had not received any information from the landfill yet
   - H) CODE to submit a second landfill for approval
   - I) CODE indicated that the tanker waste sediments will go with the TSCA waste by Friday
   - J) de-maximis indicated that they would like to dispose of 6 drums of non-haz filter cake generated at the water treatment facility, Bill Lee will provide the data and after PCB sampling would like to bulk with the on-site material
   - K) CODE to pursue paying for the zoning permit
   - L) Tams indicated that there may be broken pieces of concrete in the stockpiled soils already on-site
   - M) No problems with traffic control as per the Piscataway Police Department
   - N) B&C draft letter to Arko paper will be sent
   - O) Topsoil from Nature's Choice is from Bridgewater, former American Cyanamid "Hill Area"

2) **Work in Progress October 31st through November 5th:**
   A) Excavation, transportation and disposal of SB-91, SB-75, SB-122,SB-135, SB-142
   B) Completed sampling of area 5 for non-haz disposal
   C) Excavate 2' cut starting in North area
   D) Remove and dispose of soil stockpile
   E) Non-Haz material transported and disposed to date: 5,754 tons

3) **Field observations, problems and decisions:**
   A) Water in excavation stream 1-B
   B) PSE&G utility pole

4) **Identification of problems impending planned progress:**
   A)

5) **Review of submittal schedule and status of submittals:**
   A) See attached table (no changes since last week)

6) **Maintenance of progress schedule:**
   A) Revised schedule due progress meeting # 12

7) **Planned progress during succeeding work period Nov. 6th through Nov.12th:**
   A) Continue excavation, transportation & disposal of non-haz soils
   B) Excavate second round SB-75, SB-135 & sample
   C) Disposal of PPE/Plastic roll-off to GROWS
   D) Survey VOC hazardous areas & post excavation North area
   E) Schedule VOC transportation & disposal

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) Local Permits
      1) Soil excavation ready (pick up on 11/7/01)
      2) Land filling permit ready (pick up on 11/7/01)
   B) State Permits
      1) No comments

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **October 30th,2001**

Printed Name	Signature	Company
MARK GAMBUCCI		CONE
Bill Lee		de maximis
Steve Kessel		Brown and Caldwell
Carla Oliveira		Brown & Caldwell
Jenifer Higgins		TAMS
Mahyar R. Bilimoria		TAMS
Nigel Robinson		EPA
TOM TOMASSETTI		CODE

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 12
Progress Meeting
Date: November 13th, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Code obtained Piscataway soil excavation permit and land filling permit
   - B) B & C letter to Arko paper sent on 11/5/01
   - C) Tams indicated that the water in the North excavation area can be pumped into the existing culvert, de-maximus would like to talk further on this issue prior to pumping
   - D) Code to provide reduced drawings indicating zones 1 through 5 for FYI
   - E) Code to develop and implement variance form
   - F) Code to receive job number from PSE&G for utility pole removal
   - G) Weekly totals and total to date of soils removed to be incorporated into the weekly agenda
   - H) Backfilling of North area will begin after post excavation survey & sampling

2) **Work in Progress November 7th through November 12th:**
   - A) Continue to excavate load and dispose of Non-Haz soils (See attached table for quantities)
   - B) Surveyed and mark out Hazardous excavation areas
   - C) Cleaned sediments from de-con pad holding tank
   - D) Over excavate areas of stream 1B on B&C's instructions
   - E) Excavate additional TSCA load from areas SB-135 and SB-75
   - F) Transportation and disposal of PPE to GROWS
   - G) Send out scrap metal roll off to recycling facility

3) **Field observations, problems and decisions:**
   - A) Oversized material pile at landfill to be screened and crushed / debris

4) **Identification of problems impeding planned progress:**
   - A) Limited availability of Hazardous trucks for VOC soil disposal
   - B) Non-work days due to holiday schedule at disposal facility

5) **Review of submittal schedule and status of submittals:**
   - A) Submitted alternate Non-Haz disposal facility permits, awaiting approval from EPA

6) **Maintenance of progress schedule:**
   A) See attached schedule

7) **Planned progress during succeeding work period Nov. ~~8~~ 13th through Nov. ~~12~~ 20th:**
   A) Continue excavation loading and disposal Non-Haz soils
   B) Excavate, load and dispose of VOC Haz-Soils
   C) Perform post excavation survey

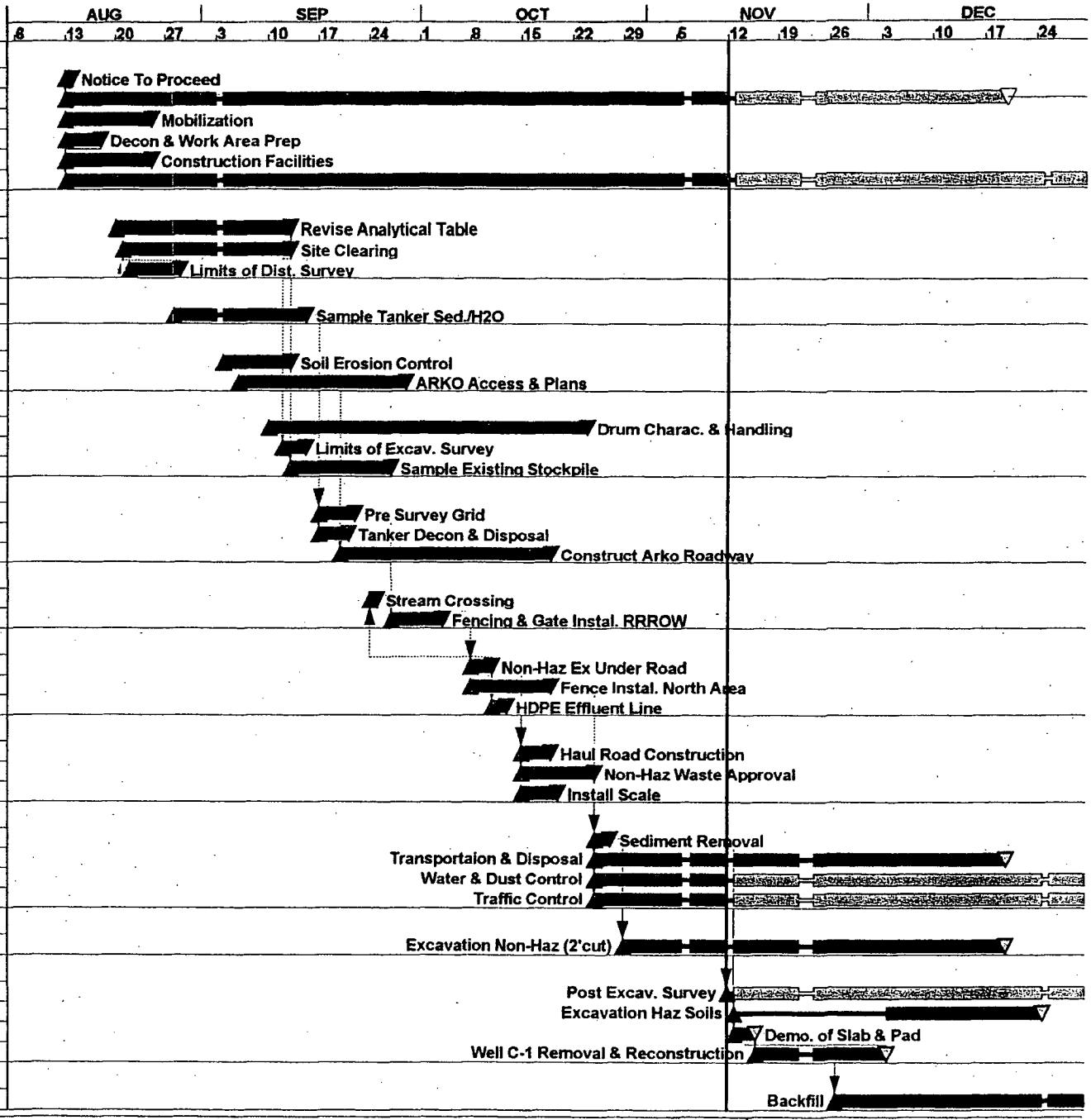
8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	19DEC01
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
0AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
7AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
3SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
0SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
7SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
4SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
8OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
5OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
2OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	19DEC01
225	Water & Dust Control	63	25OCT01A	09JAN02
295	Traffic Control	63	25OCT01A	09JAN02
9OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	19DEC01
2NOV01				
275	Post Excav. Survey	35	12NOV01A	03JAN02
175	Excavation Haz Soils	15	13NOV01A	24DEC01
165	Demo. of Slab & Pad	3	13NOV01	15NOV01
235	Well C-1 Removal &	10	16NOV01	03DEC01
6NOV01				
215	Backfill	40	27NOV01	23JAN02



oject Start	08AUG01
oject Finish	19APR02
ata Date	12NOV01
un Date	13NOV01

Early Bar
Float Bar
Progress Bar
Critical Activity

© Primavera Systems, Inc.

CHEM

Code Environmental Services, Inc.

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
21JAN02				
245	Topsoil	10	24JAN02	06FEB02
04FEB02				
335	Temp. Soil Stab. Winter	5	07FEB02	13FEB02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02

AUG: 6, 13, 20, 27 | SEP: 3, 10, 17, 24 | OCT: 1, 8, 15, 22, 29 | NOV: 5, 12, 19, 26 | DEC: 3, 10, 17, 24

Project / Daily Totals			
Project to-date Total Tons		8,979.7	
Project to-date Total Loads		390	
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons
10/25/01	21	470.98	
10/26/01	33	743.34	1,214.32
10/29/01	36	880.17	
10/30/01	29	667.00	
10/31/01	50	1,163.20	
11/1/01	25	490.48	
11/2/01	29	591.43	3,792.27
11/5/01	32	748.75	
11/6/01	2	46.32	
11/7/01	33	773.45	
11/8/01	57	1,362.52	
11/9/01	43	1,042.11	3,973.15

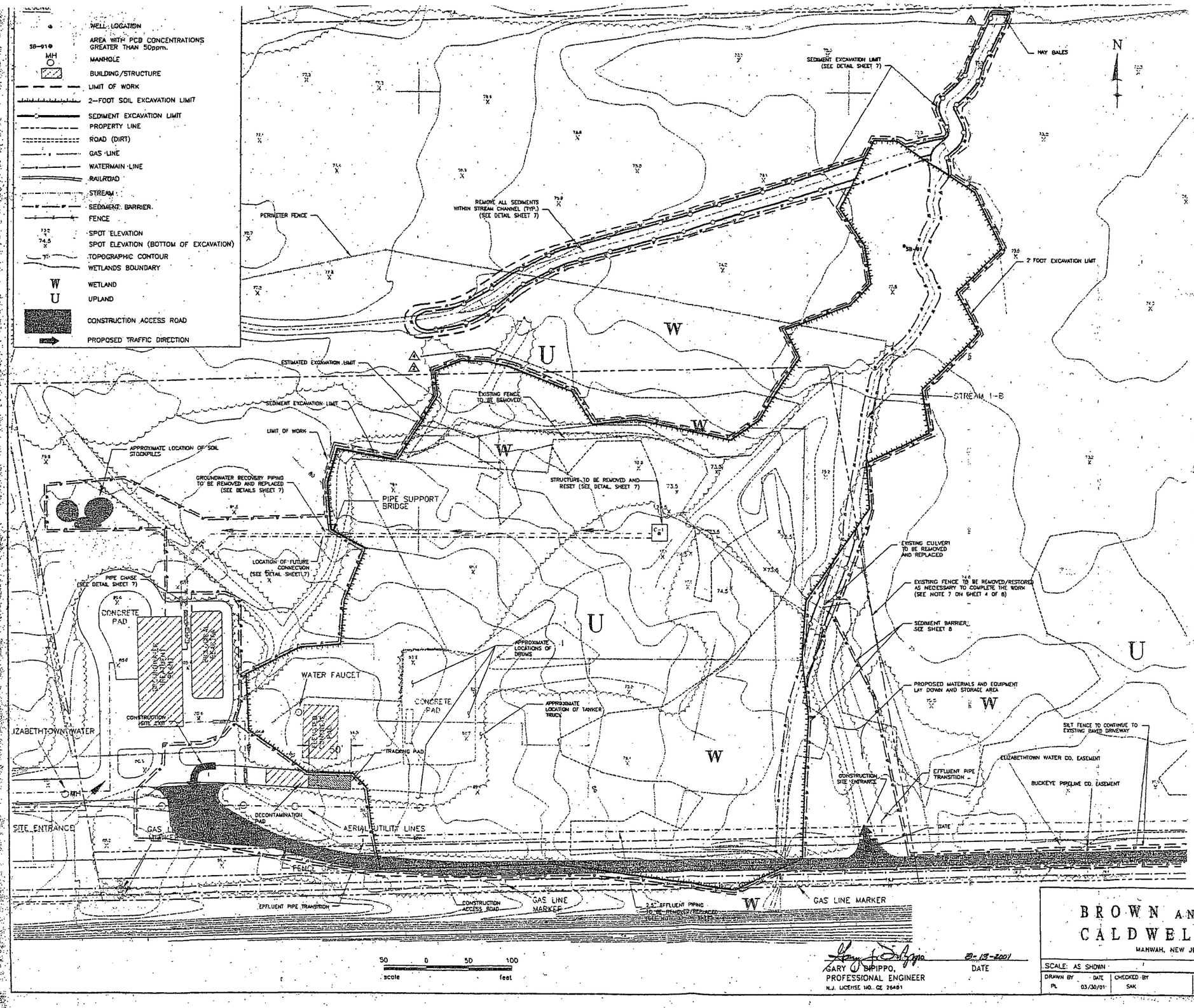
Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **November 6th,2001**

Printed Name	Signature	Company
JACK McBURNEY	Jack McBurney	de maximis
BILL LEE	[illegible]	" "
JOHN BRUZZI	John Bruzzi	Exxon Mobil
Carla Oliveira	Carla Oliveira	Brown & Caldwell
Maheyar R. Bilimoria	MRBilimoria	TAMS
Jenifer Higgins	[illegible]	TAMS
Helen Pang	Helen Pang	TAMS
MARK GAMBUCCI	Mark Gambucci	CODE
TOM TOMASSETTI	Thomas Tomassetti	CDE
STEVE KESSLER	VIA PHONE	B+C



SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOILS EROSION AND SEDIMENT CONTROL OF NEW JERSEY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
4. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
6. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD OF 1 1/2" TO 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
7. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A pH OF 5 OR MORE.
8. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
9. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NONVEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
10. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
11. UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
13. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
15. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING LOCATIONS AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
16. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH NOTE #3.

NO.	REVISIONS	REV'D BY	DATE	APPROVED BY
5	FINAL - ISSUED FOR CONSTRUCTION	SAK	8/8/01	GDP
4	REVISED SEDIMENT BARRIER LIMIT	SAK	7/6/01	GDP
3	REVISED SEDIMENT EXCAVATION LIMIT	SAK	7/6/01	GDP
2	REVISED 2-FOOT EXCAVATION LIMIT AND LOW	SAK	7/6/01	GDP
1	ISSUED FOR BID, NOT FOR CONSTRUCTION	SAK	4/18/01	GDP

GARY D. BIPIPPO, PROFESSIONAL ENGINEER
N.J. LICENSE NO. GE 26481
8-13-2001
DATE

BROWN AND CALDWELL
MANWAH, NEW JERSEY

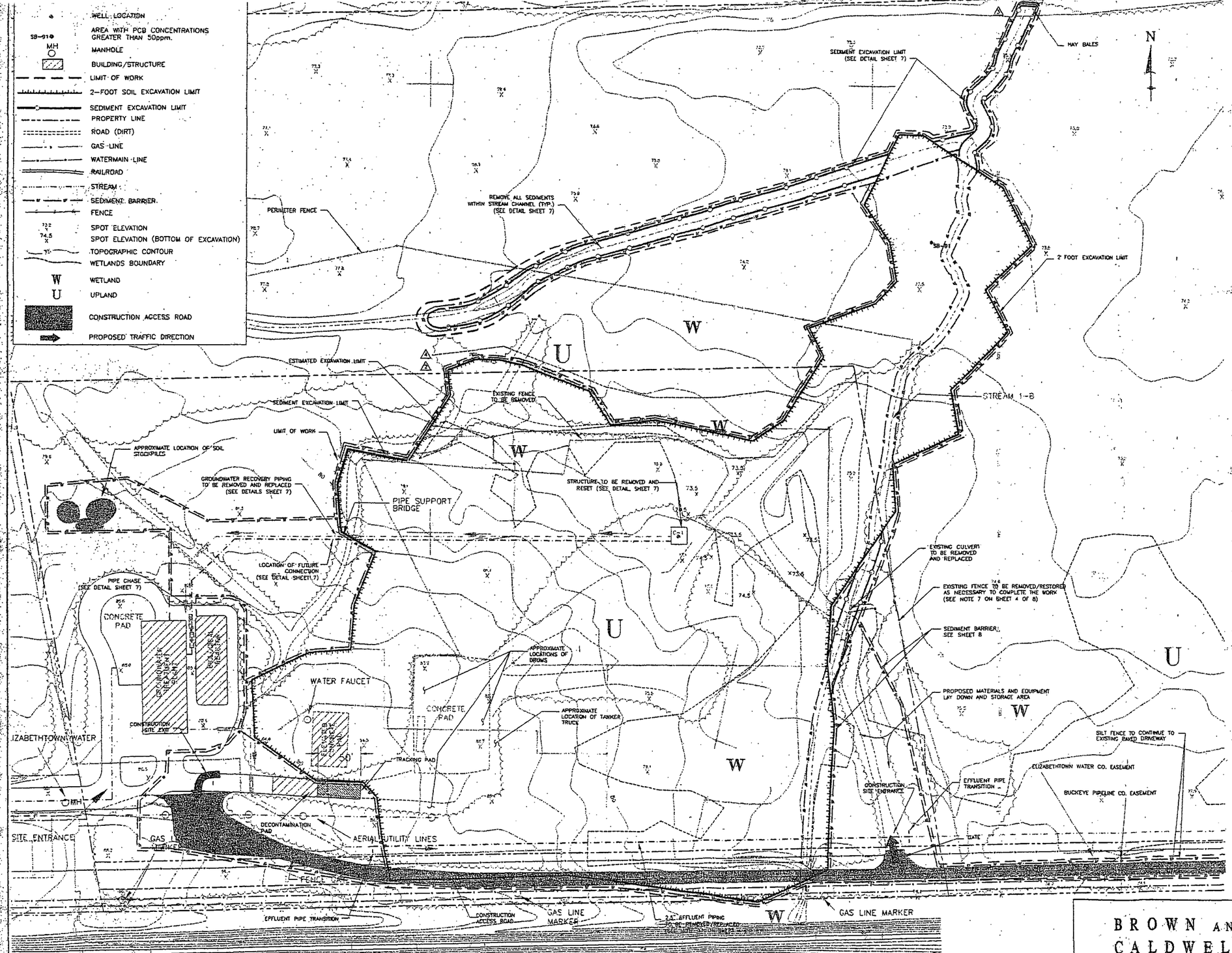
CHEMSOL INC.
PISCATAWAY, NEW JERSEY
EPA PROJECT NO: NJD 980528889

SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS SHOWN			
DRAWN BY PL	DATE 03/30/01	CHECKED BY SAK	APPROVED BY GDP

JOB NUMBER 20541
SHEET NUMBER SHEET 6 OF 8

20541 - LD 04/18/01 (20541-M3) PLOT 1=50 (20541-19.DWG)



SOIL EROSION AND SEDIMENT CONTROL NOTES

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16. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH NOTE #3.

NO.	REVISIONS	REV'D BY	DATE	APP'D BY
5	FINAL - ISSUED FOR CONSTRUCTION	SAK	8/8/01	GDP
4	REVISED SEDIMENT BARRIER LIMIT	SAK	7/6/01	GDP
3	REVISED SEDIMENT EXCAVATION LIMIT	SAK	7/6/01	GDP
2	REVISED 2-FOOT EXCAVATION LIMIT AND LOW	SAK	7/6/01	GDP
1	ISSUED FOR BID, NOT FOR CONSTRUCTION	SAK	4/18/01	GDP

GARY D. DIPIPPO, PROFESSIONAL ENGINEER
N.J. LICENSE NO. GE 26461
8-13-2001
DATE

BROWN AND CALDWELL
MAHWAH, NEW JERSEY

CHEMSOL INC.
PISCATAWAY, NEW JERSEY
EPA PROJECT NO. NJD 980528889

SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS SHOWN			
DRAWN BY PL	DATE 03/30/01	CHECKED BY SAK	APPROVED BY GDP

JOB NUMBER 20541
SHEET NUMBER SHEET 6 OF 8

20541-18 04/18/01 (20541-M3) PLOT 1=50 (20541-18.DWG)

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 13
Progress Meeting
Date: November 20th, 2001

1) **Comments From Previous Progress Meeting:**
   - A) It was agreed to pump the water in the North excavation area into the treatment facility instead of the 24" culvert pipe
   - B) PSE&G work order is in, waiting for a call to proceed
   - C) No further action necessary in TSCA area SB-135 and SB-75
   - D) Split samples with Tams consistent with Code's sample results (excluding tanker results)
   - E) No work November 22nd in observance of Thanksgiving holiday, 23rd Code may do site work only
   - F) de-maximus asked whether Sundays were allowable work days, Code indicated Sundays would be non work days, Code will give adequate notice for Saturday work
   - G) The client gave approval for an alternate Non-Haz disposal facility, awaiting approval from the EPA
   - H) John Prince e-mail indicated he was in receipt of the alternate facility permits and would have an answer soon
   - I) Code will stockpile hazardous VOC soils adjacent to the excavation prior to loading
   - J) Pre loading of trucks for non-haz disposal was discussed as an option if the transporter wanted to take advantage of it

2) **Work in Progress November 14th through November 19th:**
   - A) Continue to excavate, transport and dispose of non-haz soils (See attached table for quantities)
   - B) Begin to excavate, transport, and dispose of haz-soils from SB-76 area
   - C) Post excavation survey of area 1 and parts of areas 3 & 4 along haul road, layout sampling points for B&C

3) **Field observations, problems and decisions:**
   - A) Discovery of off-spec debris found in non-haz area 3, construction of TWCA, sampling for waste classification
   - B) Water collecting in area 1, elevated pipe invert
   - C) Subsoil delivered to the site with some oversized material and debris, these loads

will be utilized to construct a TWCA for the off-spec soil in area 3

4) **Identification of problems impeding planned progress:**
   A) Potential hazardous debris found in non-haz area 3
   B) Water in area 1 to be pumped to treatment plant

5) **Review of submittal schedule and status of submittals:**
   A) No changes since last week

6) **Maintenance of progress schedule:**
   A) Due at progress meeting # 14

7) **Planned progress during succeeding work period Nov. 20th through Nov.26th:**
   A) Continue excavation, transportation and disposal of non-haz soils
   B) Continue excavation, transportation and disposal of haz-VOC soils

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results
   C) Review of health and safety procedures in SB-76 work zone and hazardous waste trucks, implementation of suggested improvements

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Project / Daily Totals			
Project to-date Total Tons		14,143.6	
Project to-date Total Loads		594	
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons
10/25/01	21	470.98	
10/26/01	33	743.34	1,214.32
10/29/01	36	880.17	
10/30/01	29	667.00	
10/31/01	50	1,163.20	
11/1/01	25	490.48	
11/2/01	29	591.43	3,792.27
11/5/01	32	748.75	
11/6/01	2	46.32	
11/7/01	33	773.45	
11/8/01	57	1,362.52	
11/9/01	43	1,042.11	3,973.15
11/13/01	56	1,397.34	
11/14/01	45	1,113.27	
11/15/01	57	1,463.29	
11/16/01	46	1,189.94	5,163.84

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **November 13th,2001**

Printed Name	Signature	Company
JOHN BRUZZI	John Bruzzi	Exxon Mobil
Jennifer Higgins	[illegible]	TAMS
Steve Kessel	[illegible]	Brown & Caldwell
Bill Lee	[illegible]	de maximis
MARK GAMBUCCI	[illegible]	CODE
Tom Tomassetti	Thomas Tomassetti	CODE

"Complete Solutions to Your Environmental Concerns"

Agenda # 14
Progress Meeting
Date: November 27th, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Nigel indicated that he is waiting for the Edison EPA contact to review alternate non-haz disposal facility permits
   - B) de maximis indicated two areas in non-haz excavation (Area 3) where "off-spec" contamination exist, debris in one area (to be stockpiled in TWCA) and black stained soil in another (no further action required)
   - C) Construct TWCA in former soil stockpile area to stage "off-spec" soil
   - D) Segregate "really bad stuff" from surrounding material and stage separately in TWCA, sample for disposal classification
   - E) Intact bottle was noticed in "off-spec" area, treat as lab-pack if applicable
   - F) B&C needs site history for Piscataway and Watchung subsoil sources, Code to provide
   - G) With the Lockheed Martin site provide detailed information as to area of site the "virgin" soils came from
   - H) Discuss with surveyors how they can provide information confirming post excavation grades
   - I) Mark Lombardi from Elizabethtown Water looked at concrete block and indicated it is an emergency blowdown for their line
   - J) Code to provide pre-excavation topo survey after meeting
   - K) PSE&G paid and scheduling removal of pole from excavation

2) **Work in Progress November 20th through November 26th:**
   - A) Continue to excavate, transport and dispose of non-haz soils
   - B) Continue to excavate, transport, and dispose of haz-soils from SB-76 area
   - C) Continue to bring in shale backfill from Piscataway source

3) **Field observations, problems and decisions:**
   - A) Water collecting in North area, begin to set up water control measures

4) **Identification of problems impeding planned progress:**
   - A) The limited availability of Hazardous transporters for SB-76 & 74 soils

5) **Review of submittal schedule and status of submittals:**
   A) Site history of Piscataway source
   B) Second sieve analysis for Piscataway source

6) **Maintenance of progress schedule:**
   A) See attached

7) **Planned progress during succeeding work period Nov. 20th through Nov.26th:**
   A) Continue excavation, transportation and disposal of non-haz soils
   B) Continue excavation, transportation and disposal of haz-VOC soils
   C) Begin water management measures
   D) Construct TWCA

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results
   C) Odor complaint from adjacent apartments

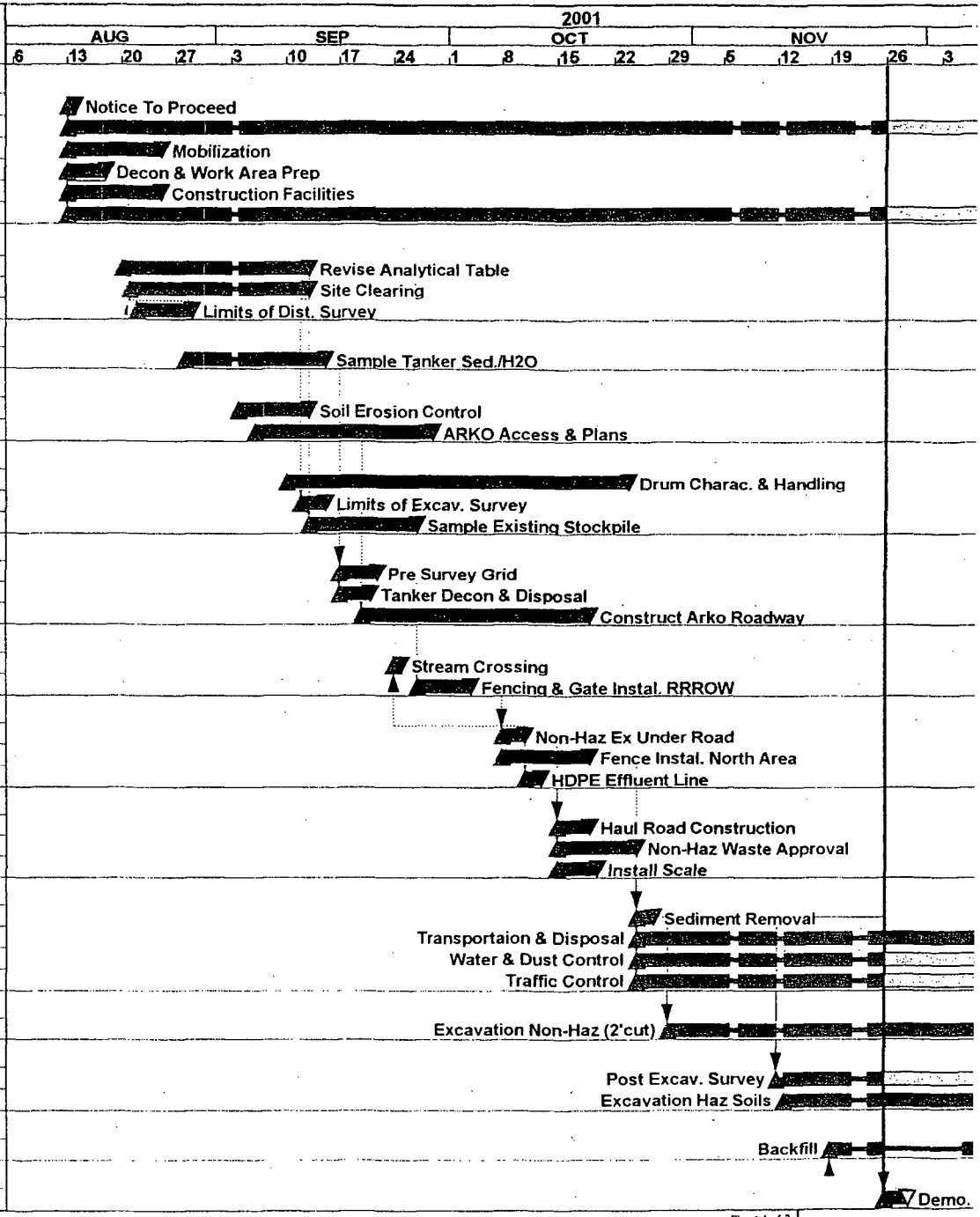
9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Activity ID	Ac Desc
415	
425	
235	Well C-1 Remov
28JAN02	
245	Topsoil
11FEB02	
335	Temp. Soil Stab
01APR02	
255	Wetlands Resto
15APR02	
265	Demob. & Proje
285	Final Survey

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	31DEC01
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	21DEC01
225	Water & Dust Control	63	25OCT01A	11JAN02
295	Traffic Control	63	25OCT01A	11JAN02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	21DEC01
12NOV01				
275	Post Excav. Survey	35	12NOV01A	08JAN02
175	Excavation Haz Soils	15	13NOV01A	14DEC01
19NOV01				
215	Backfill	40	19NOV01A	25JAN02
26NOV01				
165	Demo. of Slab & Pad	3	26NOV01	28NOV01



Project Start	06AUG01
Project Finish	19APR02
Data Date	26NOV01
Run Date	27NOV01

Early Bar
Float Bar
Progress Bar
Critical Activity

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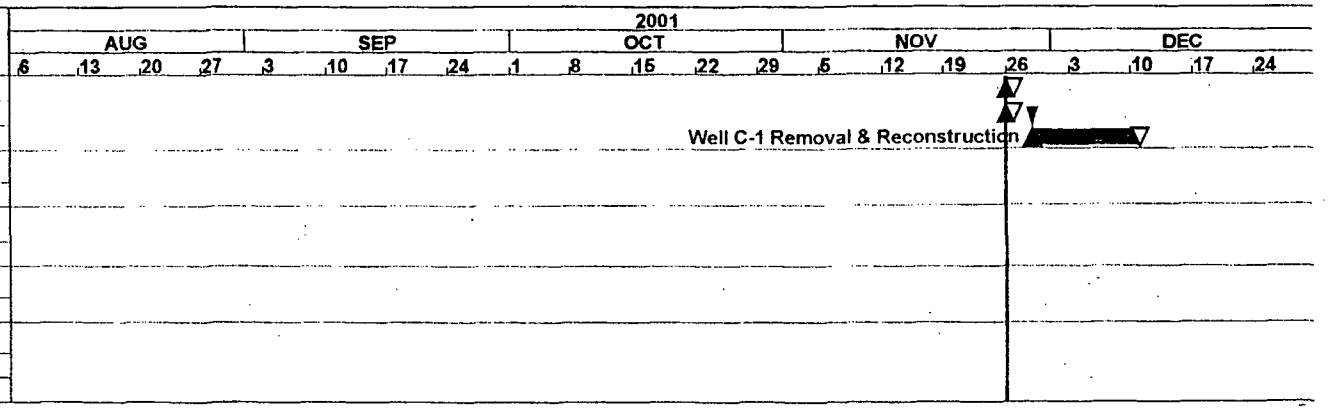
CHEM

Code Environmental Services, Inc

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
415		1	26NOV01	26NOV01
425		1	26NOV01	26NOV01
235	Well C-1 Removal &	8	29NOV01	10DEC01
28JAN02				
245	Topsoil	10	28JAN02	08FEB02
11FEB02				
335	Temp. Soil Stab. Winter	5	11FEB02	15FEB02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: **November 20th,2001**

Printed Name	Signature	Company
THOMAS TOMASSETTI	Thomas Tomassetti	CODE ENV.
MARK GAMBUCCI	[illegible]	CODE ENVIRO.
JACK McBURNEY	Jack McBurney	de maximis
Steve Kessel	[illegible]	Brown & Caldwell
CARLA OLIVEIRA	Carla Oliveira	Brown & Caldwell
Mahegan R. Bilimoria	[illegible]	TAMS
Jennifer Higgins	~~TATU~~ [illegible]	TATU
Gary DiPippo	[illegible]	Brown & Caldwell
Bill Lee	[illegible]	de maximis

NICK ROBINSON / [illegible] BRUZZI / VIA PHONE

"Complete Solutions to Your Environmental Concerns"

Agenda # 15
Progress Meeting
Date: December 4th, 2001

1) **Comments From Previous Progress Meeting:**
   - A) Surveyors proposed generating a contour map for the pre and post excavation surveys, B&C will talk to surveyors about providing data for a tabular format
   - B) PSE&G crew installed new utility pole, second crew will relocate wires
   - C) PSE&G does not want the utility pole, de maximis asked if Model City will accept the pole
   - D) Frac tanks for dewatering due to arrive on 11/27/01
   - E) EPA noted that they had a complaint from a neighbor (John Class) in the apartments adjacent to the North ditch area, Nigel of the EPA said he was unable to contact that individual
   - F) Tom has made repeated visits to the apartment complex and noted no odors
   - G) de-maximis made the following suggestions concerning odor issues: Management of odors, make adjustments to production and working face; Trucks, Cover trucks after loading and prior to decon and scale if necessary; Foam has limited success during excavation activities
   - H) The following two comments made to help step-up production of non-haz soils; Extension of the tracking pad & loading from stockpile during wet weather to minimize mud on truck tires
   - I) Tams agrees with the suggestion to utilize the bio reactors to hold water from the excavations; They suggest letting the solids settle out in a frac tank before pumping into the bio reactor
   - J) Tams asked about the site history for the Watchung borrow source; Code will provide one if they still plan on utilizing that source
   - K) Tams asked if there could be an additional hose at the decon pad for personnel decontamination, Code indicated that it was already done
   - L) Alternate facilities were approved by EPA region 2

2) **Work in Progress November 28th through December 3rd:**
   - A) Continue to excavate, transport and dispose of non-haz soils
   - B) Continue to excavate, transport, and dispose of haz-soils from SB-76 area
   - C) Constructed TWAC for off-spec soils
   - D) Excavated off spec soils and drums in area 3, stockpile soils in TWCA

E) Pump water from off spec soil excavation to treatment plant
F) Begin re-surveying of open excavation at original survey points
G) Extend stone tracking pad to stockpile area non-haz soils
H) Hand excavate six inches of additional material from over Buckeye Pipeline
I) Begin to segregate lab-pack bottles from excavation off-spec soils area 3
J) Perform maintenance on decon pad

3) **Field observations, problems and decisions:**
A) Surveyors did not perform post excavation survey at same points as original grade survey
B) Surveyors will be back out to perform survey at OG shots and provide data

4) **Identification of problems impeding planned progress:**
A) The limited availability of Hazardous transporters for SB-76 & 74 soils

5) **Review of submittal schedule and status of submittals:**
A) No change

6) **Maintenance of progress schedule:**
A) Due at 12/11/01 meeting

7) **Planned progress during succeeding work period Dec. 5th through Dec.10th:**
A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
B) Continue excavation, transportation and disposal of haz-VOC soils
C) Continue water management measures
D) Continue to perform post excavation survey
E) Continue to lab pack bottles found in off spec soil excavation area 3
F) Sample stockpiled soil from off spec soil area 3

8) **Health and Safety:**
A) No injuries or deficiencies to report
B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
A) None

10) **Variances From Specification:**
A) None to report

11) **Additional Comments:**

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

November 26th, 2001

Progress Meeting Sign In Sheet

Name	Signature	Company
Bill Lee		de maximis
JOHN BRUGGI		Exxon Mobil
Steve Kessel		Brown and Caldwell
Carla Oliveira		Brown & Caldwell
Jack McBurney		de maximis
Maheyar R. Bilimoria		TAMS
Nigel Robinson		EPA
Jennifer Higgins		TAMS
MARK GAMBUCCI		CODE ENVIRONMENTAL
THOMAS TOMASSETTI		CODE ENV. SERV. INC.

Project / Daily Totals			
Project to-date Total Tons		21,356.6	
Project to-date Total Loads		887	
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons
10/25/2001	21	470.98	
10/26/2001	33	743.34	1,214.32
10/29/2001	36	880.17	
10/30/2001	29	667.00	
10/31/2001	50	1,163.20	
11/1/2001	25	490.48	
11/2/2001	29	591.43	3,792.27
11/5/2001	32	748.75	
11/6/2001	2	46.32	
11/7/2001	33	773.45	
11/8/2001	57	1,362.52	
11/9/2001	43	1,042.11	3,973.15
11/13/2001	56	1,397.34	
11/14/2001	45	1,113.27	
11/15/2001	57	1,463.29	
11/16/2001	46	1,189.94	5,163.84
11/19/2001	46	1,163.31	
11/20/2001	44	1,071.29	
11/21/2001	20	464.65	2,699.25
11/26/2001	35	869.63	
11/27/2001	42	1,072.34	
11/28/2001	53	1,262.38	
11/29/2001	53	1,309.42	4,513.77

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES

Sample	Total PCBs (ppm)	Lead (ppm)
SS-S1B-1	0.059 (2)	12
SS-S1B-2	ND	6.7
SS-S1B-3	ND	12
SS-S1B-4	ND	12
SS-ND-1	0.0456 (2)	37
SS-ND-2	0.02 (2)	22
SS-ND-3	0.034 (2)	18
SS-ND-4	0.044 (2)	25
SS-ND-5	0.03 (2)	16
SS-ND-6	0.409 (2)	36
SS-ND-7	0.122 (2)	18
SS-ND-8	4.93 (2)	110
SS-ND-9	0.171 (2)	21
SS-ND-10	0.074 (2)	16
SS-ND-11	0.161 (2)	12

SS-ND - Samples collected from the Northern Ditch

SS-S1B- Samples collected from Stream 1-B

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

ND - Not Detected

(2) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

SUMMARY OF POST-EXCAVATION SAMPLES
(2-FOOT EXCAVATION)

Sample	Total PCBs (ppm)	Lead (ppm)
SS-1-449	0.183	30
SS-2-451	3.91 D	70
SS-3-453	0.38	22
SS-4-455	0.145 *	29
SS-5-456	0.295 *	23
SS-6-458	3.69 * D	46
SS-7-460	ND	28
SS-8-462	0.012 *	24
SS-9-468	1.39 *	37
SS-10-466	2.56 * D	80
SS-11-1136	2.24 * D	66
SS-12	2.89 * D	96
SS-11B-1136	4.0 (2) D	150
SS-12B	0.95 (2)	61
SS-13-1112	ND	5.7

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

* - QC not within limits; results should be considered as estimated.

(2) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

"Complete Solutions to Your Environmental Concerns"

Agenda # 16
Progress Meeting
Date: December 12th, 2001

1) **Comments From Previous Progress Meeting:**
   A) Analytical data for alternate borrow source in hand; waiting for sieve analysis, site history and lot & block numbers in order to submit
   B) Model City will not accept the utility pole cut up and mixed with the RCRA/TSCA waste stream; Options discussed were to send the pole whole to Model City or with the Non-Haz waste stream; The utility pole will need to be sampled prior to disposal regardless of the facility it goes to
   C) B&C calculated a production rate of 1,500 to 1,700 tons per day to maintain current non-haz completion date
   D) Steve (B&C) indicated that survey and backfill issues should be indicated in the "Impeding Planned Progress" section of the agenda
   E) EPA asked about the buried drums; Code indicated there was approximately 18-20 drums and 300 tons of impacted soil; Based on preliminary investigations, wastes will need to be incinerated
   F) EPA requested site history information for borrow source, Carla to provide copy of submittal to Jennifer
   G) Carla (B&C) provided a partial list of post excavation results from Non-Haz areas

2) **Work in Progress December 5th through December 11th**
   A) Continue to excavate, transport and dispose of non-haz soils
   B) Continue to excavate, transport, and dispose of VOC-soils from SB-76
   C) Pump water from North excavation to treatment plant
   D) Continued to segregate lab-pack bottles from excavation off-spec soils area 3
   E) Perform maintenance on decon pad
   F) Sampled water from North area
   G) Import backfill to construct clean road to North area
   H) Review of survey data provided by Maser

3) **Field observations, problems and decisions:**
   A) Several survey points indicated less than 2' excavation; several points associated with stream invert others need to be field located and determine reason for under-excavation prior to backfilling
   B) Water in North excavation

4) **Identification of problems impeding planned progress:**
   A) The limited availability of Hazardous transporters for SB-76 & 74 soils
   B) Review of survey data to allow backfill

5) **Review of submittal schedule and status of submittals:**
   A) Submittal for alternate fill material
   B) Hazardous Waste Facility Permit, Cycle Chem Inc.(Lab Pack Material)

6) **Maintenance of progress schedule:**
   A) See attached

7) **Planned progress during succeeding work period Dec. 12th through Dec.18th:**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue excavation, transportation and disposal of haz-VOC soils
   C) Continue water management measures
   D) Continue to perform post excavation survey
   E) Continue to lab pack bottles found in off spec soil excavation area 3
   F) Sample soil in TWCA
   G) Pump water from off-spec drum excavation and backfill to 2' cut grade

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	16JAN02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
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305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
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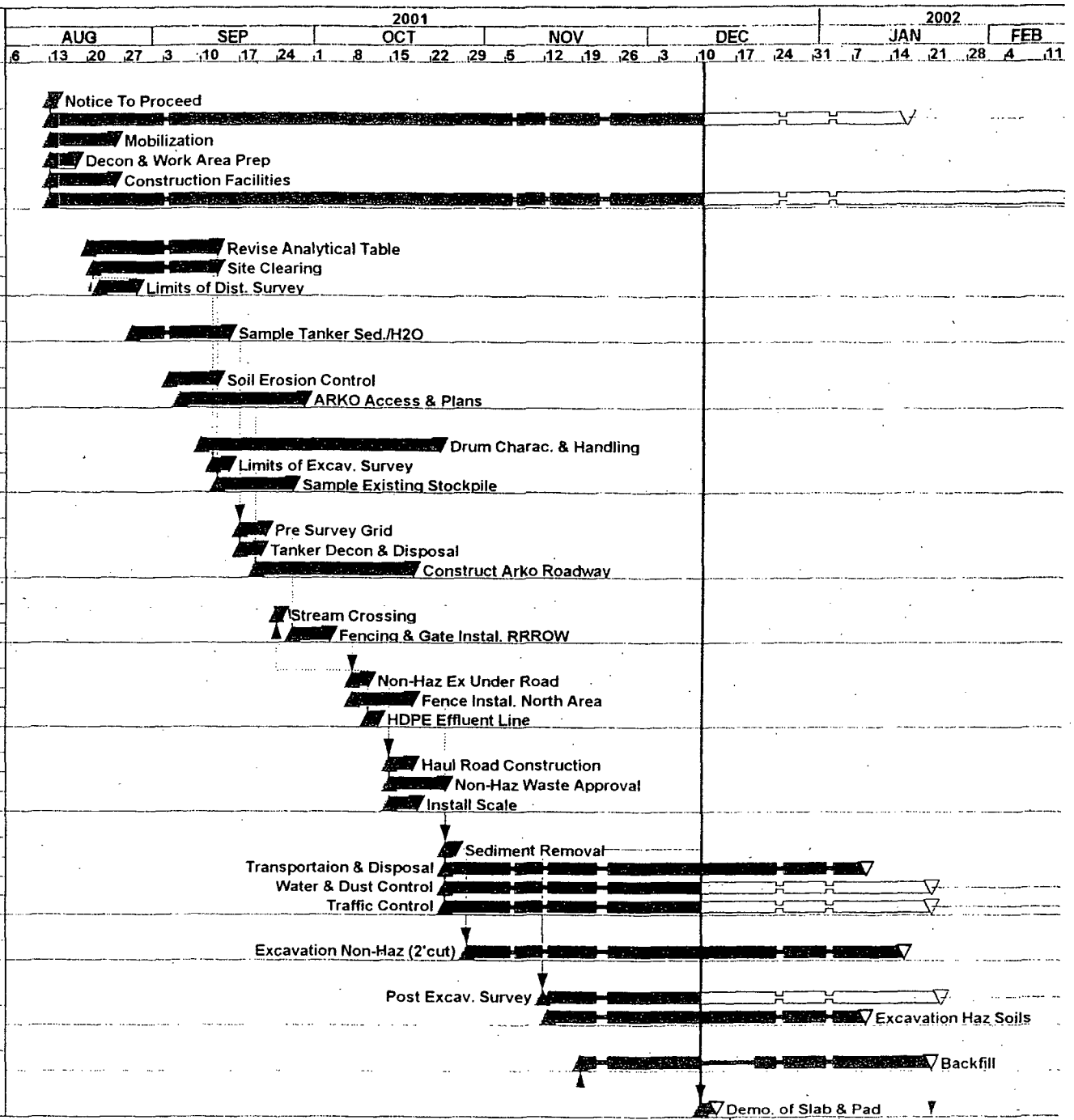
205	Transportaion & Disposal	40	25OCT01A	09JAN02
225	Water & Dust Control	63	25OCT01A	21JAN02
295	Traffic Control	63	25OCT01A	21JAN02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	16JAN02
12NOV01				
275	Post Excav. Survey	35	12NOV01A	23JAN02
175	Excavation Haz Soils	15	13NOV01A	09JAN02
19NOV01				
215	Backfill	40	19NOV01A	21JAN02
10DEC01				
165	Demo. of Slab & Pad	3	11DEC01	13DEC01



Project Start 06AUG01
Project Finish 19APR02
Data Date 11DEC01
Run Date 12DEC01

Early Bar
Float Bar
Progress Bar
Critical Activity

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CHEM

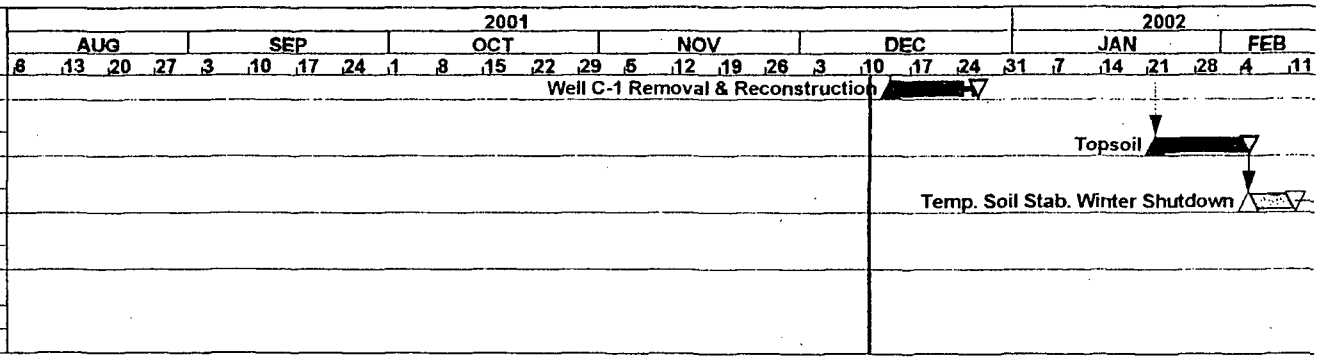
Code Environmental Services, Inc

Remdial Work, Chemsul Superfund Site

Classic Schedule Layout

Sheet 1 of 2

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
235	Well C-1 Removal &	8	14DEC01	26DEC01
21JAN02				
245	Topsoil	10	22JAN02	04FEB02
04FEB02				
335	Temp. Soil Stab. Winter	5	05FEB02	11FEB02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



Project / Daily Totals				
Project to-date Total Tons		**29,777.30**	Total Non-Haz	**26,777.24**
Project to-date Total Loads		**1222**	Total Haz	**3,000.06**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	
10/25/2001	21	470.98		
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		
10/30/2001	29	667.00		
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
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11/6/2001	2	46.32		
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11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	67	1,680.51	6,230.06	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
			2,190.64	
Waste	Tons			
TSCA/RCRA	50.00			
VOC Soil	2,765.56			
TSCA	183.50			

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting Sign In Sheet

Date: December 4th, 2001

Printed Name	Signature	Company
John Rolfe	John Rolfe	demax
Jennifer Higgins	[illegible]	TATS
JOHN BRUZZI	John Bruzzi	Exxon Mobil
Nigel Robinson	Nigel [illegible]	EPA
Carle Olivera	Carle Olivera	BC
TOM TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI	Mark [illegible]	CODE
STEVE KESSLER VIA TELEPHONE		B+C

"Complete Solutions to Your Environmental Concerns"

Agenda # 16
Progress Meeting
Date: December 18th, 2001

1) **Comments From Previous Progress Meeting:**

A) Analytical data from the second borrow indicated the presents of Thallium above residential levels, Code to take a confirmatory sample

B) Model City can accept the utility pole after sampling but as it's own waste stream, Another option may be to cut it up into 3' sections and dispose of with non-haz based on analytical results

C) PSE&G was on site to remove the pole and relocate the electrical wires, The work crew was unaware of this being a Superfund site and wanted to have their Health & Safety officer review the work prior to commencing

D) Off spec drum work; Code submitted Cycle Chem Permit for lab packs, TWI permit to follow; EPA requested a breakdown of the individual bottles found; de-maximis explained the lab pack procedure; Disposal facility is comfortable with Code's chemist performing "Haz-Catting"; Code will supply field inventory of items packed; Code indicated disposal method for "unknowns"would most likely be incineration; Code indicated they may have found metal salts which may include mercury and may need to be recovered at AERC; To date we have a total of 8 drums and 2 pails packaged;

E) Pumping operations from the North excavation area to the treatment facility were stopped after filling 2 ½ bio-reactors; Re-charge and the quantity of water may be a challenge for the treatment facility to process; After observing the water pumped into the bio-reactor Dan from Bigler will add a polymer to facilitate the binding of solids; Tams asked if we had any analytical on the water in the North area; Code indicated the sample was just sent to the lab; EPA indicated they do not have a problem with discharge into the storm sewer but would like to discuss it with Paul Harvey (NJDEP); Steve of B&C asked where we obtained the sample, the tank or the ponded area; Code indicated sample was obtained from the ponded area

F) After review of survey data, areas under excavated tend to be associated with the stream areas; Tom of Code explained the discrepancies via a hand sketch and their general areas on the site plans; Code stated that we can go back and take more material out meet the 2' cut if necessary

G) B&C asked Code if they were planning on waiting for the 1' top soil restoration of the streams; Code replied with a yes; B&C asked to be informed in advance of restoration so they can make the proper notifications

H) Code restated the limited availability of transporters for SB-76 & 74 soils

I) de maximis inquired about start dates on the pump house and well C-1; Code said there intention was to start next week and that materials were currently being delivered to the site

J) B&C asked if we had an estimate on how long the pump house will be down during installation operations. Code replied by stating approximately 4 or 5 days

K) Code asked if a variance form should be submitted for the down time of well C-1; de maximis replied "you might as well"

L) Tams asked if any more complaints from John Class were received; Nigel indicated during his last conversation with Mr. Class the odors have gotten worse; Everyone at the meeting commented that they have investigated the limits of the site and do not notice any odors. Code indicates Mr. Class lives in the apartment building North of the site and the Health official supplied the name and address at the time of the fist complaint; It was also noted that to date that was the only complaint regarding odors; de maximis suggested as soon as the complaint is made to contact Jennifer of Tams and have her meet with Mr. Class

M) As of September 11, 2001 the area above the site has been deemed a no-fly-zone. de-max asked B&C to find different vendors who are permitted to fly over the site to get areal photographs

2) **Work in Progress December 13th through December 17th**

A) Continue to excavate, transport and dispose of non-haz soils

B) Continue to excavate, transport, and dispose of haz-soils from SB-76 area

C) Continued to segregate lab-pack bottles from excavation off-spec soils area 3

D) Perform maintenance on decon pad

E) Sample soils stockpiled in TWCA for disposal

F) Begin excavation of trench for C1 pipe installation

G) Extended TWCA

3) **Field observations, problems and decisions:**

A) Water in North excavation area

B) Surveyors to layout areas less than 1.9' in depth starting on Tuesday

C) Found a white pearlite type substance in clean zone in pipe trench

4) **Identification of problems impeding planned progress:**

A) The limited availability of Hazardous transporters for SB-76 & 74 soils

B) Weather

5) **Review of submittal schedule and status of submittals:**

A) Submittle for fill material

B) Hazardous Waste Facility Permit, Cycle Chem Inc.(Lab Pack Material)

6) **Maintenance of progress schedule:**
   A) Due 12/26/01

7) **Planned progress during succeeding work period Dec.19th through Dec.24th:**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue excavation, transportation and disposal of haz-VOC soils
   C) Continue water management measures
   D) Continue to perform post excavation survey
   E) Continue to lab pack bottles found in off spec soil excavation area 3
   F) Install HDPE pipe and electrical conduit to limits of trench
   G) Complete excavation and stockpile of white powder in pipe trench
   H) Extend TWCA

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None to report

11) **Additional Comments:**

Project / Daily Totals

Project to-date Total Tons		**32,552.93**	Total Non-Haz	**29,553.87**
Project to-date Total Loads		**1333**	Total Haz	**2,999.06**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	
10/25/2001	21	470.98		
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		
10/30/2001	29	667.00		
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3,973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: December 12th , 2001

Printed Name	Signature	Company
T. TOMASSETTI	Thomas Tomassetti	CODE
M. R. Bilimoria	MRBilimoria	TAMS
Jennifer Higgins		TAMS
Nigel Robinson		EPA
MARK GAMBUCCI		CODE
Bill Lee		demaximis
Steve Kessel		Brown and Caldwell
Carla Oliveira	Carla Oliveira	Brown & Caldwell

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 18
Progress Meeting
Date: December 27th, 2001

1) **Comments From Previous Progress Meeting:**

A) de-maximis asked Code to supply a copy of the inventory of lab packed bottles for review

B) Jennifer of Tams indicated they would have the TCL/TAL results back on the second borrow source today

C) Code indicated that they are in the process of getting the permit information for AERC, This is the proposed disposal facility for the metal salts (mercury) waste if necessary

D) Nigel of the EPA indicated Paul Harvey of the NJDEP was in agreement to pump the water from the site to the storm sewer pending analytical results

E) Analytical data obtained from a water sample collected in the North area indicated a lead level of 6.5 ppb, New Jersey surface water quality standard is 5 ppb, B&C suggested that a more representative sample should be obtained by field filtering the sample, Code indicated that they can obtain the sample today or tomorrow

F) As discussed between de maximis, B&C and Code, areas 1.9 feet and under would be surveyed, laid out and excavated at B&C's direction, no further survey would be required to approve the area for backfill

G) B&C said they obtained a waver to the no-fly zone over the site and plan to take aerial photographs soon

H) Code presented a schedule of the shut down of the treatment plant to facilitate relocation of well C-1

I) Code indicated that there is water in the Lab-Pack excavation and that occasionally a bottle and what appears to be a polymer "pops" up and is found floating on top of the water, B&C suggested to de-water the excavation and do a visual inspection, de-maximis stated that if we did not capture all the bottles, we need to do it now while the chemist is onsite, The EPA suggested the use of a magnetometer to search for any potential drums in the off spec excavation.

J) The analytical parameters for the soils stockpiled in the TWCA were PP+40 and TCLP with a 5 day turn around, The soils may be acceptable to US Liquids for Chem-ox treatment, It was noted by Code that there may be bottles mixed in the soil staged in the TWCA and could be a problem for disposal to US Liquids, It was suggested that the soils could go for incineration, B&C asked how much soil was staged in the TWCA, Code stated that there were approximately 300 tons

K) In regards to the white substance found in the pipe trench excavation, historical data indicated a Styrofoam operation at the site, It was uncertain at this time of the environmental impact associated with the buried white substance

L) de-maximis asked if the sample results were back for over the Buckeye pipeline, B&C said that they did not collect them yet but expected to with the next round of sampling

M) Due to the holiday schedule for the next two weeks the weekly progress meetings will be held on Thursday, {12-27-2001 & 1-3-2002}

2) **Work in Progress December 18th through December 26th**

A) Continue to excavate, transport and dispose of non-haz soils

B) Continue to excavate, transport, and dispose of haz-soils from SB-74

C) Continued to segregate lab-pack bottles from excavation off-spec area 3

D) Dewater "off-spec" area 3 excavation and containerize water in frack tanks

E) Hand excavate additional three five gallon pails from excavation, segregate for chemist

F) Excavate second area impacted with bottles adjacent to SB-76 area (six intact bottles)

G) Excavate and segregate additional five gallon pail from Non-Haz excavation area 3 West of "off-spec" area

H) Pump water from pipe trench and SB-76 to frack tanks

I) Continue water management, pumping water to bio-reactors

J) Sample water in North excavation area and field filter utilizing a 50 micron filter

K) Continue excavation of trench for C1 pipe installation

L) Butt fuse piping

M) Remove above ground well piping and stage for disposal

N) Set manhole at well C-1 pipe trough

O) Add to TWCA to accommodate for white substance type soils from well C-1 pipe trench excavation

3) **Field observations, problems and decisions:**

A) Water in North excavation area

4) **Identification of problems impeding planned progress:**

A) The limited availability of Hazardous transporters for SB-74 soils

B) Weather

5) **Review of submittal schedule and status of submittals:**

A) Submittle for fill material (Approved as noted)

B) Hazardous Waste Facility Permit, Cycle Chem Inc.(Pending)

C) Hazardous Waste Facility Permit, WTI (Approved)

D) Piping installation schedule (Approved)

6) **Maintenance of progress schedule:**

A) See Attached

7) **Planned progress during succeeding work period Dec.28th through Jan. 2nd:**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue excavation, transportation and disposal of haz-VOC soils
   C) Continue water management measures
   D) Continue to perform post excavation survey
   E) Continue to lab pack bottles found in off spec soil excavation area 3
   F) Install HDPE pipe, electrical conduit to limits of trench
   G) Hydrostatically test well C1 piping

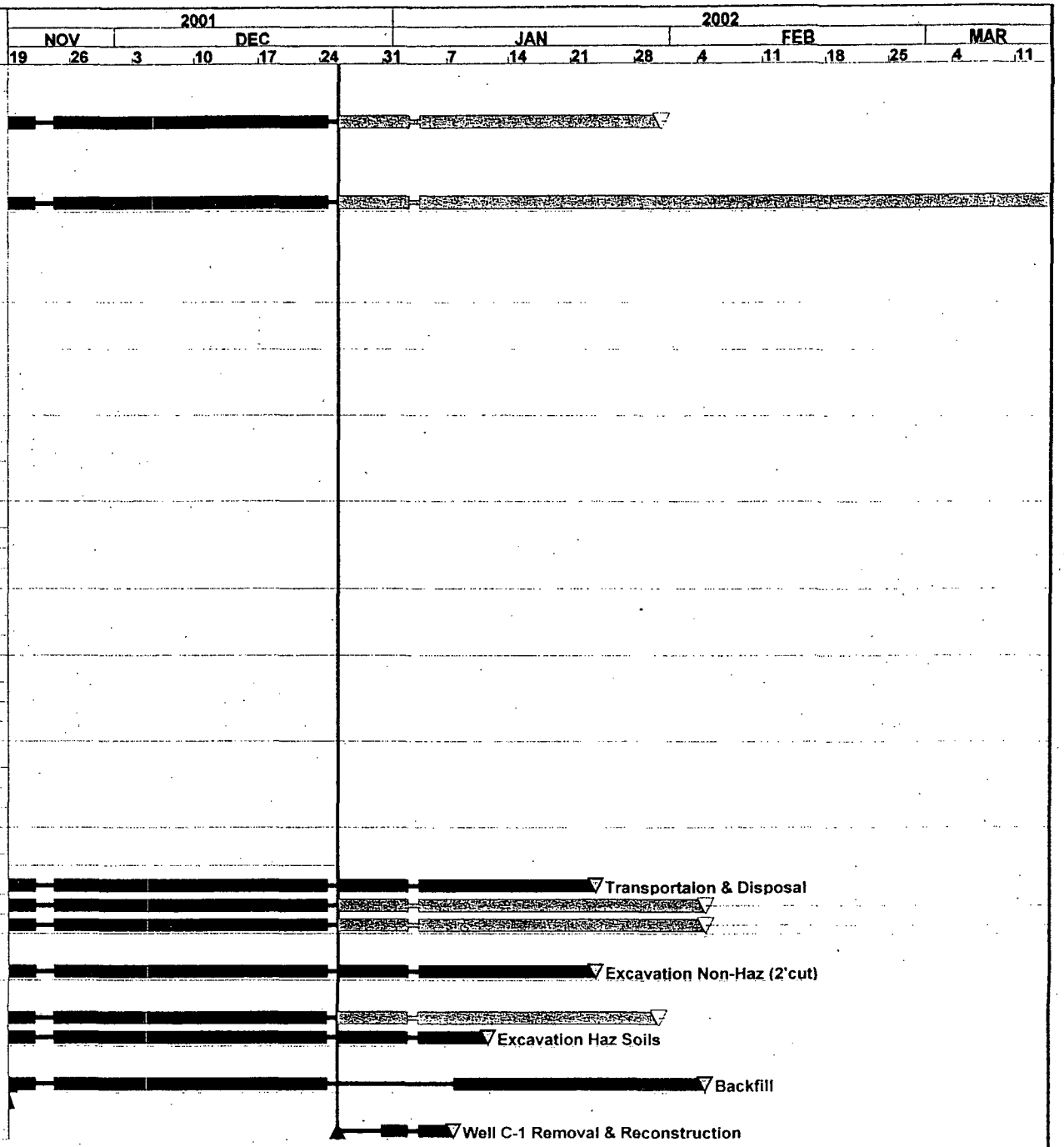
8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) Piping installation schedule

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	30JAN02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	23JAN02
225	Water & Dust Control	63	25OCT01A	04FEB02
295	Traffic Control	63	25OCT01A	04FEB02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	23JAN02
12NOV01				
275	Post Excav. Survey	35	12NOV01A	30JAN02
175	Excavation Haz Soils	15	13NOV01A	11JAN02
19NOV01				
215	Backfill	40	19NOV01A	04FEB02
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	07JAN02



Project Start	06AUG01
Project Finish	19APR02
Data Date	26DEC01
Run Date	27DEC01

Early Bar
Float Bar
Progress Bar
Critical Activity

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CHEM

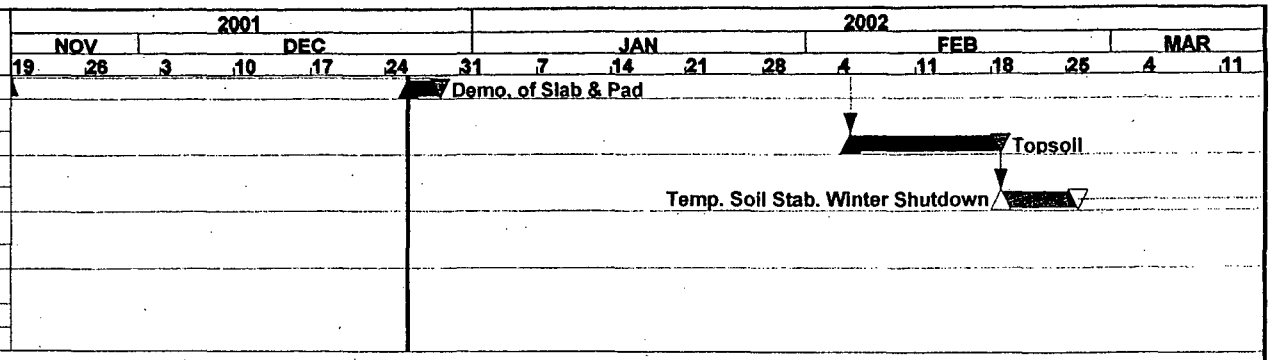
Sheet 1 of 2

Code Environmental Services, Inc.

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
165	Demo. of Slab & Pad	3	26DEC01	28DEC01
04FEB02				
245	Topsoil	10	05FEB02	18FEB02
18FEB02				
335	Temp. Soil Stab. Winter	5	19FEB02	25FEB02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



Project / Daily Totals				
Project to-date Total Tons		35,900.11	Total Non-Haz	30,712.73
Project to-date Total Loads		1,448	Total Haz	5,187.38
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	
10/25/2001	0	470.98		
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		
10/30/2001	29	667.00		
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3,973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	
Waste	Tons			
TSCA/RCRA	50.00			
VOC Soil	4,953.88			
TSCA	183.50			

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: December 18th , 2001

Printed Name	Signature	Company
Jennifer Higgins		TAMS
Steve Kessel		Brown & Caldwell
Carla Oliveira	Carla Oliveira	Brown & Caldwell
TOM TOMASSETTI		CODE
MARK GAMBUCCI		CODE
Bill Lee	de maximis	de maximis
NIGEL ROBINSON	VIA TELEPHONE	EPA

5 gal. Pail Hand Excavated from Off Spec. Area 3

SUMMARY OF POST-EXCAVATION SAMPLES

Sample	Total PCBs (ppm)		Lead (ppm)
SS-1-449	0.183		30
SS-2-451	3.91	D	70
SS-3-453	0.38		22
SS-4-455	0.145	*	29
SS-5-456	0.295	*	23
SS-6-458	3.69	*, D	46
SS-7-460	ND		28
SS-8-462	0.012	*	24
SS-9-468	1.39	*	37
SS-10-466	2.56	*, D	80
SS-11-1136	2.24	*, D	66
SS-12	2.89	*, D	96
SS-11B-1136	4	*, D	150
SS-12B	0.95	(1)	61
SS-13-1112	ND		5.7
SS-23-1076	0.108	(1)	14
SS-24-1074	0.061	(1)	15
SS-25-1072	0.097	(1)	13
SS-26-1070	0.208	(1)	17
SS-27-1061	7.4	(1),	40
SS-28-1059	0.29		12
SS-29-1057	0.072	(1)	16
SS-30-1043	1.02	(1)	14
SS-31-1045	0.232	(1)	9.9
SS-32-1047	0.04	(1)	12
SS-33-1049	ND		12
SS-39-499	10.4	(1),	83
SS-40-637	1.62	(1)	63
SS-41-639	28.1	(1),	170
SS-42-641	0.32	(1)	21
SS-52-680	0.066	(1)	18
SS-53-982	0.79	(1)	27
SS-65-731	7	(1),	52
SS-66-733	0.081	(1)	16
SS-79-785	ND		16
SS-90-831	4.44	(1),	150
SS-101-873	3	(1),	14
SS-112-917	0.14	(1)	22
SS-124-964	11.98	(1),	24

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

* - QC not within limits; results should be considered as estimated.

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES

Sample	Total PCBs (ppm)		Lead (ppm)
SS-S1B-1	0.062	(1)	12
SS-S1B-2	ND		6.7
SS-S1B-3	ND		12
SS-S1B-4	ND		12
SS-S1B-5	0.8	(1)	23
SS-ND-1	0.0456	(1)	37
SS-ND-2	0.02	(1)	22
SS-ND-3	0.034	(1)	18
SS-ND-4	0.044	(1)	25
SS-ND-5	0.03	(1)	16
SS-ND-6	0.409	(1)	36
SS-ND-7	0.122	(1)	18
SS-ND-8	4.93	(1), D	110
SS-ND-9	0.171	(1)	21
SS-ND-10	0.074	(1)	16
SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch
SS-S1B Samples collected from Stream 1-B
ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
ND - Not Detected
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

"Complete Solutions to Your Environmental Concerns"

Agenda # 19
Progress Meeting
Date: January 3rd, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Tams indicated that the results for Thallium for the second borrow source was non-detect
   - B) Code is still waiting on permit information for submittal of the proposed disposal facility for potential metal salts {mercury}
   - C) Code indicated that the analytical results for lead for the three samples obtained from the water in the north area were 9.0, 10.2 and 12.2 ppb
   - D) The surveyor indicated they will need to do a post excavation survey in the areas adjusted under B&C's supervision in order to certify the post excavation results
   - E) On 12/26/01 Code & Bigler performed a lock-out/tag-out on well C-1
   - F) In reference to the soils stage in the TWCA from "off-spec" area 3, Code received a verbal commitment from the US Liquids sales rep. that there should not be a problem accepting the soils, final approval will have to be received from the general manager of the facility prior to shipment of the waste
   - G) B&C sampled the white substance found in the pipe trench excavation for styrene
   - H) Code indicated that Dan from Bigler noted the treatment facility was not designed to handle Pb, Tams suggested to raise the Ph to help precipitate the lead, Tams suggested using the onsite lab to run wet chemistry on the water
   - I) Code indicated that there is an area of new blacktop cracked on the Arko property access road that will need to be cut out and replaced, de-maximis asked if we should do it now, Code & B&C agreed we should wait until the spring

2) **Work in Progress December 28th through January 2rd**
   - A) Continue to excavate, transport and dispose of non-haz soils
   - B) Continue to excavate, transport, and dispose of haz-soils from SB-74
   - C) Continued to segregate lab-pack bottles from excavation off-spec soils area 3
   - D) Adjust final grade on SB-76
   - E) Complete pumping of all water from SB-76
   - F) Backfill SB-76 up to 2' excavation grade to prevent water run-on
   - G) Complete excavation of trench for C1 pipe
   - H) Install manhole at pipe trough
   - I) Butt fuse HDPE pipe and place in trench
   - J) Perform Hydrostatic test on effluent pipe

K) Install 2" & 1" electrical conduit

3) **Field observations, problems and decisions:**
   A) Water in North excavation area

4) **Identification of problems impeding planned progress:**
   A) Weather

5) **Review of submittal schedule and status of submittals:**
   A) Hazardous Waste Facility Permit, Cycle Chem Inc.(Pending)

6) **Maintenance of progress schedule:**
   A) Due 1/8/02

7) **Planned progress during succeeding work period Jan.3rd through Jan. 7th**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Complete excavation, transportation and disposal of haz-VOC soils from SB-74
   C) Continue water management measures
   D) Continue to perform post excavation survey
   E) Continue to lab pack bottles found in off spec soil excavation area 3
   F) Complete well C-1 electrical and start pumping

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Relocated lab pack operations to treatment building lab, Reviewed health and safety & evacuation warning & procedures with Bigler crew
   C) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

Project / Daily Totals

Project to-date Total Tons		37,476.75	Total Non-Haz	31,777.88
Project to-date Total Loads		1,513	Total Haz	5,698.87
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	0	470.98		78%
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		
10/30/2001	29	667.00		
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3,973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	
12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
			1,129.79	
Waste	Tons			
TSCA/RCRA	30.00			
VOC Soil	5,465.37			
TSCA	183.50			

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: December 27th , 2001

Printed Name	Signature	Company
William Lee	[illegible]	de maximis
Steve Kessel	[illegible]	Brown and Caldwell
Carla Oliveira	Carla Oliveira	Brown & Caldwell
Maheyar R. Bilimoria	[illegible]	TAMS
Jennifer L Higgins	[illegible]	TAMS
MARK GAMBUCCI	[illegible]	CODE
THOMAS TOMASSETTI	Thomas Tomassetti	CODE

"Complete Solutions to Your Environmental Concerns"

Agenda # 20
Progress Meeting
Date: January 8th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Code indicated that they opened the pails found in area 3, The pail marked "stinky", contained lab beakers and wipes, The pail marked "dangerous" contained one pint sized ampule frozen in its packaging
   - B) Tom of Code said he spoke to the general manager for US Liquids who indicated there would not be a problem with bottles mixed in with the waste generated during off-spec soils found in area 3, However, any bottles found would be shipped back to the site, Concerns were raised as to the manifest and or packaging requirements, John Bruzzi said he would look into waste handling with his disposal specialist
   - C) Paul Harvey of NJDEP and all parties are in agreement with the discharge into the storm sewer of the ponded wated in the North excavation area
   - D) Tams indicated that back in 1993 the water sampled from the monitoring well was black and that well C-2 was the production well
   - E) Water from SB-76 had an odor when pumped into the bio-reactors, Bigler is currently waiting for polymer to continue processing water from the Bio-Reactors
   - F) Bigler is making the final connections, we will try to start up the system today
   - G) Bill Lee asked to incorporate the post excavation analytical data into the meeting minutes

2) **Work in Progress January 4th through January 7th**
   - A) Continued to excavate, transport and dispose of non-haz soils
   - B) Continued to segregate lab-pack bottles from excavation off-spec soils area 3
   - C) Completed bottle excavation from area adjacent to SB-76
   - D) Completed bottle excavation from area 3 adjacent to original drum excavation
   - E) Added to TWCA to accommodate additional soils from bottle excavations
   - F) Continue to backfill with subsoil
   - G) Begin pumping water from North area to storm sewer
   - H) Completed well C-1 effluent pipe installation and start up system
   - I) Continue to treat water from Bio-Reactors in treatment plant

3) **Field observations, problems and decisions:**
   A) Water in North excavation area

4) **Identification of problems impeding planned progress:**
   A) Weather

5) **Review of submittal schedule and status of submittals:**
   A) Hazardous Waste Facility Permit, Cycle Chem Inc.(Approved)

6) **Maintenance of progress schedule:**
   A) See Attached

7) **Planned progress during succeeding work period Jan. 9th through Jan. 15th**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue water management measures (pumping water to storm sewer)
   C) Continue to perform post excavation survey
   D) Continue to lab pack bottles found in off spec soil excavations
   E) Sample second stockpile of soils in TWCA from area adjacent to SB-76

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

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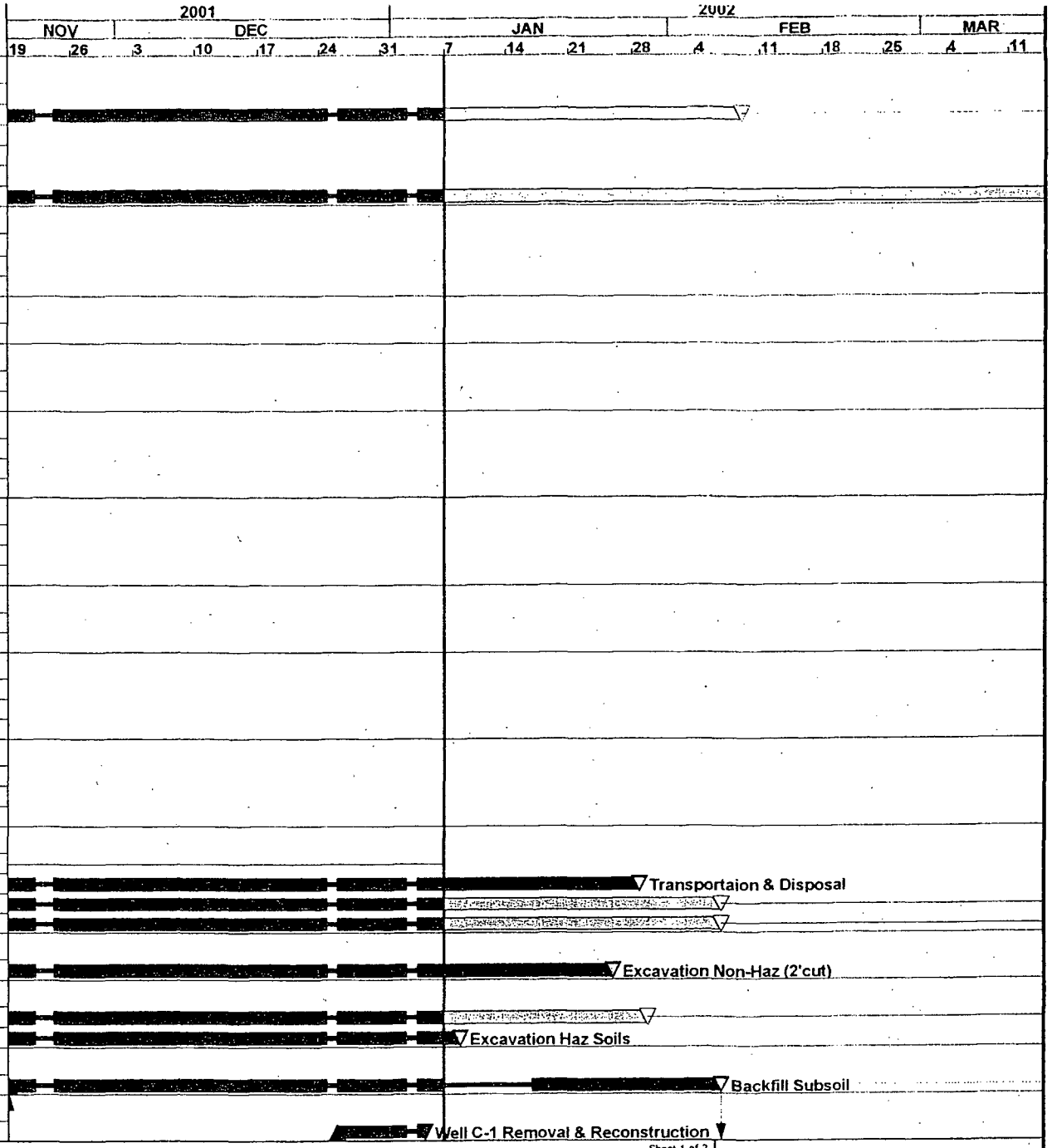
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	08FEB02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	28JAN02
225	Water & Dust Control	63	25OCT01A	06FEB02
295	Traffic Control	63	25OCT01A	06FEB02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	25JAN02
12NOV01				
275	Post Excav. Survey	35	12NOV01A	29JAN02
175	Excavation Haz Soils	15	13NOV01A	08JAN02
19NOV01				
215	Backfill Subsoil	40	19NOV01A	06FEB02
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	04JAN02A



Project Start 06AUG01
Project Finish 19APR02
Data Date 07JAN02
Run Date 08JAN02

Early Bar
Float Bar
Progress Bar
Critical Activity

© Primavera Systems, Inc.

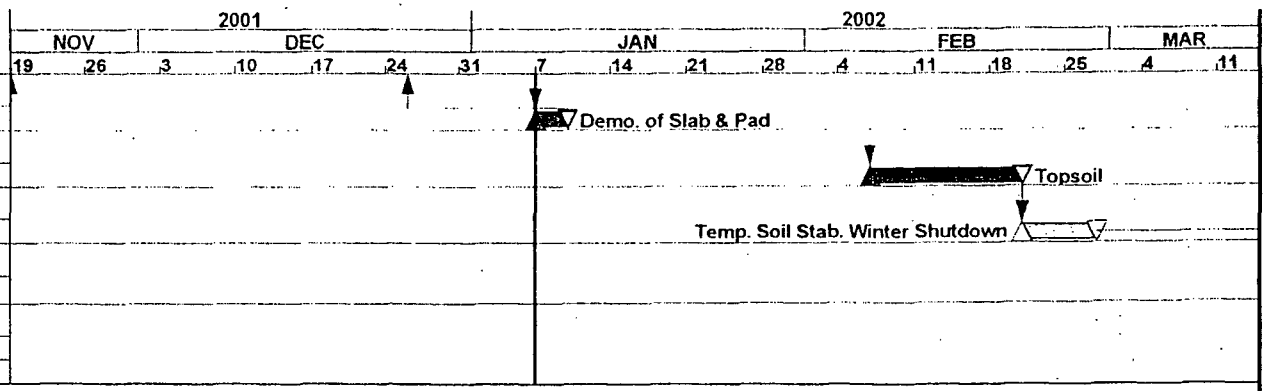
CHEM

Code Environmental Services, Inc.

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
07JAN02				
165	Demo. of Slab & Pad	3	07JAN02	09JAN02
04FEB02				
245	Topsoil	10	07FEB02	20FEB02
18FEB02				
335	Temp. Soil Stab. Winter	5	21FEB02	27FEB02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



Project / Daily Totals				
Project to-date Total Tons		**40,944.46**	Total Non-Haz	**35,115.18**
Project to-date Total Loads		**1,679**	Total Haz	**5,829.28**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	21	470.98		85%
10/26/2001	33	743.34	1214.32	
10/29/2001	36	880.17		
10/30/2001	29	667.00		
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3607.60	
12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
1/3/2002	54	1,280.58		
1/4/2002	43	1,010.84	3421.21	
1/7/2002	48	1,176.29		
			1176.29	
Waste	Tons			
TSCA/RCRA	180.41			
VOC Soil	5,465.37			
TSCA	183.50			

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: January 3rd , 2002

Printed Name	Signature	Company
MAHEYAR R. BILIMORIA	MRBilimoria	TAMS
Jennifer L Higgins	[illegible]	TAMS
JOHN BRUZZI	John Bruzzi	Exxon Mobil
Bill Lee	[illegible]	de maximis
Steve Kossel	[illegible]	Brown and Caldwell
Carla Oliveira	Carla Oliveira	Brown and Caldwell
THOMAS TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI	[illegible]	CODE

SUMMARY OF POST-EXCAVATION SAMPLES
(1/08/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-1-449	0.183		30
	SS-2-451	3.91	D	70
	SS-3-453	0.38		22
	SS-4-455	0.145	*	29
	SS-5-456	0.295	*	23
	SS-6-458	3.69	*, D	46
	SS-7-460	ND		28
	SS-8-462	0.012	*	24
	SS-9-468	1.39	*	37
	SS-10-466	2.56	*, D	80
	SS-11-1136	2.24	*, D	66
	SS-12	2.89	*, D	96
	SS-11B-1136	4	*, D	150
	SS-12B	0.95	(1)	61
	SS-13-1112	ND		5.7
	SS-23-1076	0.108	(1)	14
	SS-24-1074	0.061	(1)	15
	SS-25-1072	0.097	(1)	13
	SS-26-1070	0.208	(1)	17
	SS-27-1061	7.4	(1), D	40
	SS-28-1059	0.29		12
	SS-29-1057	0.072	(1)	16
	SS-30-1043	1.02	(1)	14
	SS-31-1045	0.232	(1)	9.9
	SS-32-1047	0.04	(1)	12
	SS-33-1049	ND		12
	SS-39-499	10.4	(1), D	83
	SS-40-637	1.62	(1)	63
	SS-41-639	28.1	(1), D	170
	SS-42-641	0.32	(1)	21
	SS-52-680	0.066	(1)	18
	SS-53-982	0.79	(1)	27
	SS-65-731	7	(1), D	52
	SS-66-733	0.081	(1)	16
	SS-79-785	ND		16
	SS-90-831	4.44	(1), D	150
	SS-101-873	3	(1), D	14
	SS-112-917	0.14	(1)	22
	SS-124-964	11.98	(1), D	24
N	SS-137-1010	17.7	(1), D	59
N	SS-138-1012	24.7	(1), D	84
N	SS-139-407	30	(1), D	26

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

* - QC not within limits; results should be considered as estimated.

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES
(1/08/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-S1B-1	0.062	(1)	12
	SS-S1B-2	ND		6.7
	SS-S1B-3	ND		12
	SS-S1B-4	ND		12
	SS-S1B-5	0.8	(1)	23
N	SS-S1B-6	0.17	(1)	22
N	SS-S1B-7	0.61	(1)	25
	SS-ND-1	0.0456	(1)	37
	SS-ND-2	0.02	(1)	22
	SS-ND-3	0.034	(1)	18
	SS-ND-4	0.044	(1)	25
	SS-ND-5	0.03	(1)	16
	SS-ND-6	0.409	(1)	36
	SS-ND-7	0.122	(1)	18
	SS-ND-8	4.93	(1), D	110
	SS-ND-9	0.171	(1)	21
	SS-ND-10	0.074	(1)	16
	SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch
SS-S1B Samples collected from Stream 1-B
ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
ND - Not Detected
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

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Agenda # 21
Progress Meeting
Date: January 17th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) US Liquids can lab pack any bottles if encountered in material shipped to there facility and send out for incineration
   - B) Code stated that they are pumping water from the North excavation area to the pipe culvert, B&C asked if we were running the water through a bag filter, Code answered yes
   - C) Code indicated that Well C-1 is operational and that it was down for a total of 8 days, Code still has to install the insulation and grout the pipe penetration at the manhole
   - D) Tom spoke with Wayne Pasco of PSE&G on Monday, Wayne could not understand why the utility pole was not removed, he would contact Michael Zielenski PSE&G's CHMM
   - E) Carla of Brown & Caldwell will e-mail the analytical results of the white material found in the excavation and pipe trench for Well C-1 to all parties

2) **Work in Progress January 9th through January 16th**
   - A) Continue to excavate, transport and dispose of non-haz soils
   - B) Continue pumping of water from North area to pipe culvert
   - C) Continue to discharge water from bio-reactors to treatment building
   - D) Complete final excavation grades in all areas including stream
   - E) Continue post excavation survey & provide data
   - F) Continue backfilling with subsoil
   - G) Complete backfilling of pipe trench in clean area
   - H) Begin to remove concrete from elevated foundation
   - I) Sample SB-76 bottle soils stockpiled in TWCA

3) **Field observations, problems and decisions:**
   - A) Backfill trucks damage PZ-2 & PZ-3

4) **Identification of problems impeding planned progress:**
   - A) Weather

5) **Review of submittal schedule and status of submittals:**
   A) None

6) **Maintenance of progress schedule:**
   A) Due on 1/22/02 progress meeting

7) **Planned progress during succeeding work period Jan.18th through Jan. 21st**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue water management measures
   C) Continue to perform post excavation survey
   D) Begin T&D of material in the TWCA
   E) PSE&G & Verizon to remove power lines, pole & anchor wires

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

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Project / Daily Totals				
Project to-date Total Tons		48,695.02	Total Non-Haz	42,865.74
Project to-date Total Loads		1,988	Total Haz	5,829.28
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	21	470.98		101%
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		Average Load
10/30/2001	29	667.00		24.5
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
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11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
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11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	

12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
1/3/2002	54	1,280.58		
1/4/2002	43	1,010.84	3,421.21	
1/7/2002	48	1,176.29		
1/8/2002	44	1,097.38		
1/9/2002	34	844.77		
1/10/2002	53	1,322.58		
1/11/2002	32	804.26	5,245.28	
1/14/2002	67	1,725.62		
1/16/2002	66	1,648.97		
1/17/2002	13	306.98		
			3,681.57	
Waste	Tons			
TSCA/RCRA	180.41			
VOC Soil	5,465.37			
TSCA	183.50			

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: January 8th, 2002

Printed Name	Signature	Company
Jennifer Higgins		TAMS
M.R. Bilimoria		TAMS
Bill Lee		demaximus
THOMAS TOMASSETTI		CODE
MARK GAMBUCCI		CODE
Steve Kessel		Brown and Caldwell
Carla Oliveira		Brown and Caldwell

SUMMARY OF POST-EXCAVATION SAMPLES
(1/17/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-1-449	0.183		30
	SS-2-451	3.91	D	70
	SS-3-453	0.38		22
	SS-4-455	0.145	*	29
	SS-5-456	0.295	*	23
	SS-6-458	3.69	*, D	46
	SS-7-460	ND		28
	SS-8-462	0.012	*	24
	SS-9-468	1.39	*	37
	SS-10-466	2.56	*, D	80
	SS-11-1136	2.24	*, D	66
	SS-12	2.89	*, D	96
	SS-11B-1136	4	*, D	150
	SS-12B	0.95	(1)	61
	SS-13-1112	ND		5.7
	SS-23-1076	0.108	(1)	14
	SS-24-1074	0.061	(1)	15
	SS-25-1072	0.097	(1)	13
	SS-26-1070	0.208	(1)	17
	SS-27-1061	7.4	(1), D	40
	SS-28-1059	0.29		12
	SS-29-1057	0.072	(1)	16
	SS-30-1043	1.02	(1)	14
	SS-31-1045	0.232	(1)	9.9
	SS-32-1047	0.04	(1)	12
	SS-33-1049	ND		12
N	SS-35-491	1.43	(1), D	
N	SS-36-493	5.98	(1), D	
N	SS-37-495	6.9	(1), D	
N	SS-38-497	11	(1), D	
	SS-39-499	10.4	(1), D	83
	SS-40-637	1.62	(1)	63
	SS-41-639	28.1	(1), D	170
	SS-42-641	0.32	(1)	21
N	SS-48-672	10.9	(1), D	
N	SS-49-674	13.6	(1), D	
N	SS-50-676	12	(1), D	
N	SS-51-678	5.8	(1), D	
	SS-52-680	0.066	(1)	18
	SS-53-982	0.79	(1)	27
N	SS-63-727	0.7	(1), D	
N	SS-64-729	3.28	(1), D	

SUMMARY OF POST-EXCAVATION SAMPLES
(1/17/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-65-731	7	(1), D	52
	SS-66-733	0.081	(1)	16
	SS-79-785	ND		16
	SS-90-831	4.44	(1), D	150
	SS-101-873	3	(1), D	14
N	SS-110-913	14.97	(1), D	
N	SS-111-915	7.94	(1), D	
	SS-112-917	0.14	(1)	22
N	SS-117-950	48.1	(1), D	
N	SS-119-954	34.4	(1), D	
N	SS-120-956	4.66	(1), D	
N	SS-121-958	18	(1), D	
N	SS-123-962	2.61	(1), D	
	SS-124-964	11.98	(1), D	24
N	SS-131-998	4.86	(1), D	
N	SS-132-1000	2.54	(1), D	
N	SS-133-1002	5.9	(1), D	
N	SS-134-1004	6.8	(1), D	
N	SS-135-1006	4.48	(1), D	
N	SS-136-1008	4.2		
	SS-137-1010	17.7	(1), D	59
	SS-138-1012	24.7	(1), D	84
	SS-139-407	30	(1), D	26
N	SS-140-1040	1.55	(1), D	
N	SS-141-1042	0.071	(1), B	
N	SS-144-424	2.05	(1), D	

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

B - Compound also detected in method blank.

* - QC not within limits; results should be considered as estimated.

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES
(1/17/02)

Sample	Total PCBs (ppm)		Lead (ppm)
SS-S1B-1	0.062	(1)	12
SS-S1B-2	ND		6.7
SS-S1B-3	ND		12
SS-S1B-4	ND		12
SS-S1B-5	0.8	(1)	23
SS-S1B-6	0.17	(1)	22
SS-S1B-7	0.61	(1)	25
SS-ND-1	0.0456	(1)	37
SS-ND-2	0.02	(1)	22
SS-ND-3	0.034	(1)	18
SS-ND-4	0.044	(1)	25
SS-ND-5	0.03	(1)	16
SS-ND-6	0.409	(1)	36
SS-ND-7	0.122	(1)	18
SS-ND-8	4.93	(1), D	110
SS-ND-9	0.171	(1)	21
SS-ND-10	0.074	(1)	16
SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch
SS-S1B Samples collected from Stream 1-B
ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
ND - Not Detected
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

"Complete Solutions to Your Environmental Concerns"

Agenda # **22**
Progress Meeting
Date: January 24th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Code utilized B&C's overlay drawing to review excavation & backfill status
   - B) de-maximis inquired about the possibility of using a shrink wrap material to cover the bio-reactors
   - C) With respect to the restoration of stream 1B it was requested that a natural meander be constructed instead of a straight line to the storm sewer
   - D) Tams asked if grout was going to placed around the monitoring wells, B&C indicated they will look into it
   - E) B&C will develop a list of damaged or missing monitoring & pizometer wells prior to topsoil placement
   - F) The water over the buckeye pipeline will need to be pumped and the soil sampled
   - G) Tams asked about continuing the lab-packing, Code indicated that the chemist will be back on Monday to continue
   - H) Once topsoil is approved, Code is considering stockpiling in several areas throughout the site
   - I) The Director of Public Works Piscataway township (Tom Evans) has an excess of wood chips from trees at Day park and would like to know if they can be of use to the project, It was asked that Code obtain a sample, Other issues of concern were indemnification from the township to access the site
   - J) It was decided to obtain a sample of the greenish material found in the limits of excavation for inorganic's and TCLP to determine disposal
   - K) B&C indicated that they visited Linden Landfill and reported nothing out of the ordinary, They observed the screening operation area but no trucks were present because they were between rounds
   - L) It was asked how big was the area that could not be post excavation sampled, B&C showed all parties in attendance via a drawing maintained in Code's trailer
   - M) Brown & Caldwell passed out post excavation sample data to all parties in attendance
   - N) Two loads of subsoil from Lackland Piscataway source had debris which will be picked out before spreading
   - O) It was indicated that there are some large rocks in the subsoil backfill which Code will have picked out

P) It was decided that the next meeting will be held on Thursday the 24th

2) **Work in Progress January 18th through January 24th**
   A) Continue to excavate, transport and dispose of non-haz soils
   B) Continue backfilling operations in approved areas
   C) PSE&G removed their service and guide wires from the utility pole in area 4
   D) Verizon relocated their service and guide wires from the utility pole in area 4, a second crew will come back to remove the pole
   E) Code removed the pole from the non-haz contaminated area
   F) Load and transport material from TWCA to US Liquids
   G) Graded TWCA area to prepare for restoration
   H) Returned Bio-Reactors to original configuration as requested by Bigler
   I) Removed & cleaned 550 gallon UST located at Northwest corner of existing elevated bldg. foundation
   J) Removed, stockpiled & washed concrete from bldg. pad, begin loading for recycling
   K) Continue lab packing operations in treatment building

3) **Field observations, problems and decisions:**
   A) Encountered 550 gallon underground storage tank (UST) during 2' excavation at the Northwest corner of elevated bldg. foundation
   B) Greenish sandy material discovered during 2' excavation in area 5

4) **Identification of problems impeding planned progress:**
   A) Weather

5) **Review of submittal schedule and status of submittals:**
   A) None

6) **Maintenance of progress schedule:**
   A) See Attached

7) **Planned progress during succeeding work period Jan.25th through Jan. 31st**
   A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
   B) Continue backfilling in approved areas
   C) Continue water management measures
   D) Continue to perform post excavation survey
   E) Complete concrete disposal
   F) Perform waste classification and profile acceptance for rejected hazardous soils
   G) Perform site restoration in former TWCA area

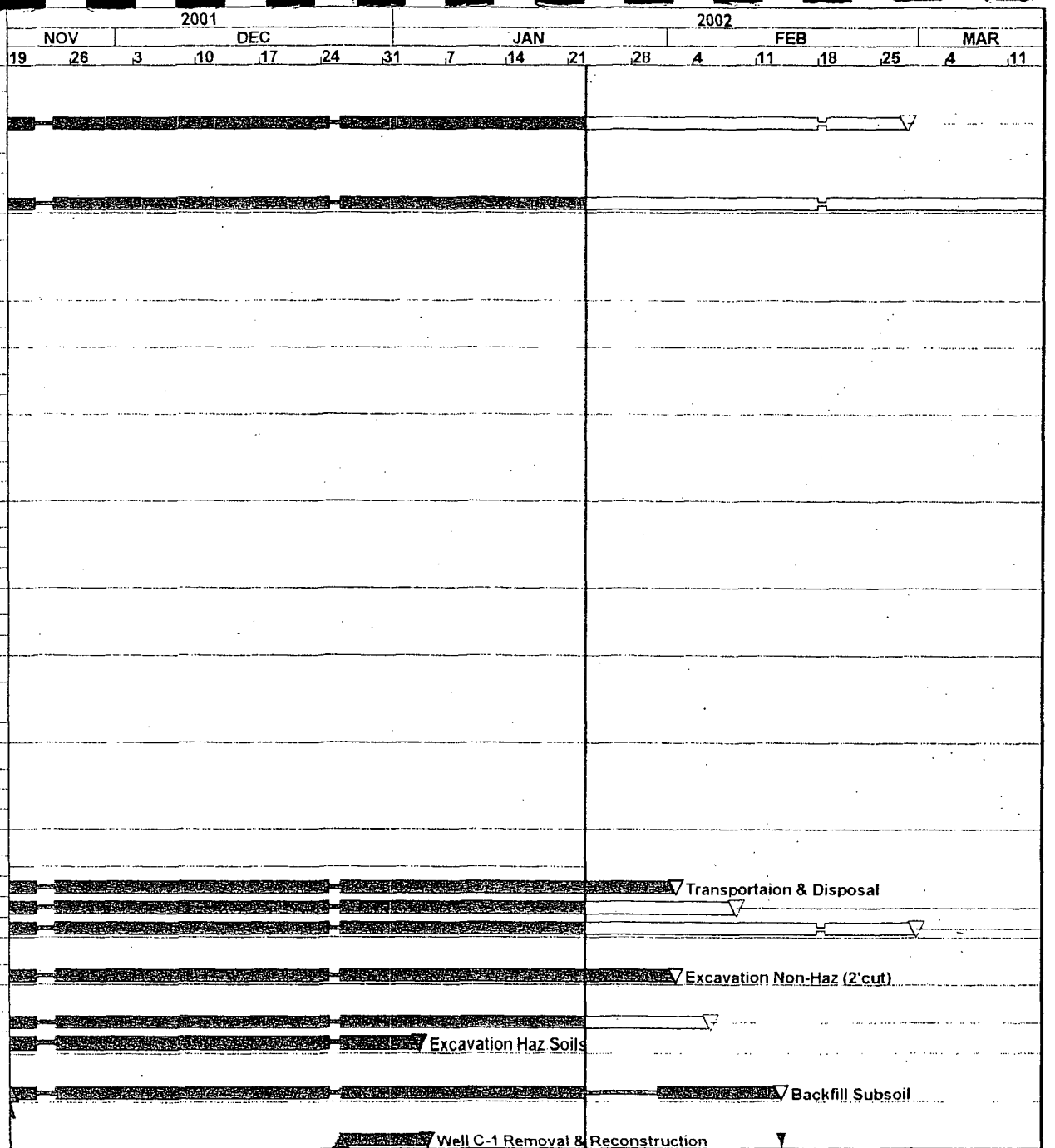
8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
A) None

10) **Variances From Specification:**
A) None

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	27FEB02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	01FEB02
225	Water & Dust Control	63	25OCT01A	08FEB02
295	Traffic Control	63	25OCT01A	28FEB02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	01FEB02
12NOV01				
275	Post Excav. Survey	35	12NOV01A	05FEB02
175	Excavation Haz Soils	15	13NOV01A	03JAN02A
19NOV01				
215	Backfill Subsoil	40	19NOV01A	13FEB02
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	04JAN02A



Project Start 09AUG01
Project Finish 19APR02
Data Date 23JAN02
Run Date 24JAN02

Early Bar
Float Bar
Progress Bar
Critical Activity

Primavera Systems, Inc

CHEM

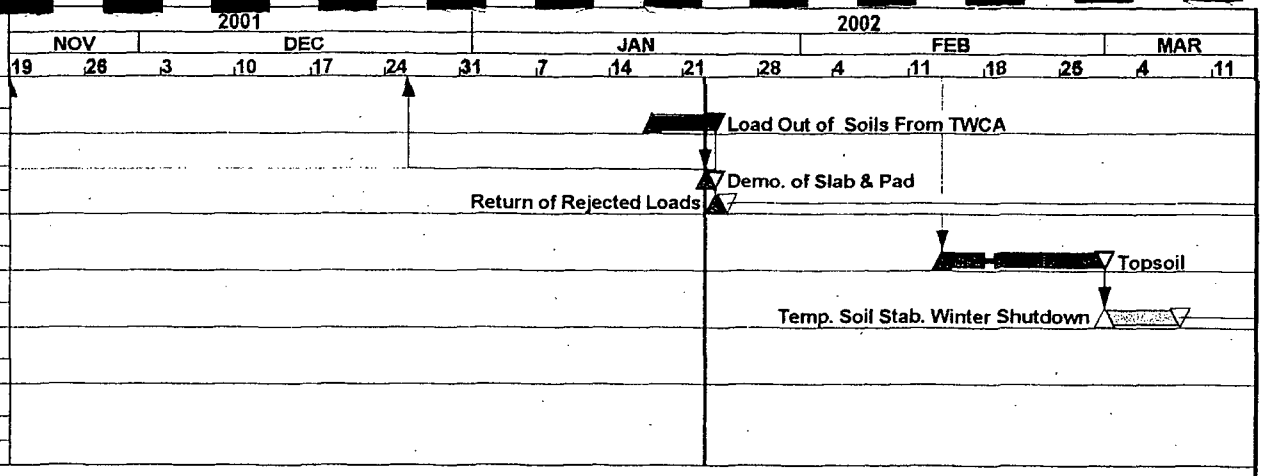
Sheet 1 of 2

Code Environmental Services Inc

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
14JAN02				
415	Load Out of Soils From TWCA	3	18JAN02A	23JAN02A
21JAN02				
165	Demo. of Slab & Pad	3	23JAN02A	23JAN02
425	Return of Rejected Loads	2	24JAN02A	24JAN02
11FEB02				
245	Topsoil	10	14FEB02	28FEB02
25FEB02				
335	Temp. Soil Stab. Winter	5	01MAR02	07MAR02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



CHEMTECH

LABORATORY REPORT

CLIENT: Code Environmental, Inc.

ATTN.: Tom Tomassetti

LAB RECEIVING #: P1213

Analysis Meth.: 7.3.4.2. REV 3

Matrix: Solid **Analyzed:** 1/23/02
Unit: mg/Kg **Analyst:** HEMEX

Lab Sample ID:		P1213-01	P1213-02	P1213-03	
Client Sample ID:	Method Blank	A5GRNSL1	A5GRNSL2	A5GRNSL3	**Detection Limit**
COMPOUNDS: **D.F.:**		1	1	1	
Reactive Sulfide	<40	<40	1300	2000	40

☐ 110 Route 4
Englewood, New Jersey 07631
Phone: 201 568 7400 Fax: 201 567 3231

NYSDOH Certification No 10624

☐ 284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908 789 8922

NYSDOH Certification No 11376
NJDEP Certification No 12013

Project / Daily Totals				
Project to-date Total Tons		**51,392.65**	Total Non-Haz	**45,563.37**
Project to-date Total Loads		**2,104**	Total Haz	**5,829.28**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	21	470.98		107%
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		Average Load
10/30/2001	29	667.00		24.4
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3,973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	

12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
1/3/2002	54	1,280.58		
1/4/2002	43	1,010.84	3,421.21	
1/7/2002	48	1,176.29		
1/8/2002	44	1,097.38		
1/9/2002	34	844.77		
1/10/2002	53	1,322.58		
1/11/2002	32	804.26	5,245.28	
1/14/2002	67	1,725.62		
1/16/2002	66	1,648.97		
1/17/2002	34	786.65		
1/18/2002	39	906.40	5,067.64	
1/21/2002	10	237.48		
1/22/2002	23	543.36		
1/23/2002	23	530.72		
1/25/2002			1,311.56	
Waste	Tons			
TSCA/RCRA	180.41			
VOC Soil	5,465.37			
TSCA	183.50			

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: January 17th, 2002

Printed Name	Signature	Company
Bill Lee	[illegible]	demiximis
MARK GAMBUCCI	[illegible]	CODE
Tom TOMASSETTI	[illegible]	CODE
Nigel Robinson	[illegible]	EPA
Jennifer Hegni	[illegible]	TAMS
Maheyar R. Bilimoria	[illegible]	TAMS
Stephen A. Kessel	[illegible]	Brown and Caldwell
Carla Oliveira	[illegible]	Brown & Caldwell

SUMMARY OF POST-EXCAVATION SAMPLES
(1/24/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-1-449	0.183		30
	SS-2-451	3.91	D	70
	SS-3-453	0.38		22
	SS-4-455	0.145	*	29
	SS-5-456	0.295	*	23
	SS-6-458	3.69	*, D	46
	SS-7-460	ND		28
	SS-8-462	0.012	*	24
	SS-9-468	1.39	*	37
	SS-10-466	2.56	*, D	80
	SS-11-1136	2.24	*, D	66
	SS-12	2.89	*, D	96
	SS-11B-1136	4	*, D	150
	SS-12B	0.95	(1)	61
	SS-13-1112	ND		5.7
	SS-23-1076	0.108	(1)	14
	SS-24-1074	0.061	(1)	15
	SS-25-1072	0.097	(1)	13
	SS-26-1070	0.208	(1)	17
	SS-27-1061	7.4	(1), D	40
	SS-28-1059	0.29		12
	SS-29-1057	0.072	(1)	16
	SS-30-1043	1.02	(1)	14
	SS-31-1045	0.232	(1)	9.9
	SS-32-1047	0.04	(1)	12
	SS-33-1049	ND		12
N	SS-35-491	1.43	(1), D	68
N	SS-36-493	5.98	(1), D	54
N	SS-37-495	6.9	(1), D	45
N	SS-38-497	11	(1), D	45
	SS-39-499	10.4	(1), D	83
	SS-40-637	1.62	(1)	63
	SS-41-639	28.1	(1), D	170
	SS-42-641	0.32	(1)	21
N	SS-48-672	10.9	(1), D	340
N	SS-49-674	13.6	(1), D	240
N	SS-50-676	12	(1), D	32
N	SS-51-678	5.8	(1), D	28
	SS-52-680	0.066	(1)	18
	SS-53-982	0.79	(1)	27

SUMMARY OF POST-EXCAVATION SAMPLES
(1/24/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
N	SS-63-727	0.7	(1), D	40
N	SS-64-729	3.28	(1), D	44
	SS-65-731	7	(1), D	52
	SS-66-733	0.081	(1)	16
	SS-79-785	ND		16
	SS-90-831	4.44	(1), D	150
	SS-101-873	3	(1), D	14
N	SS-110-913	14.97	(1), D	14
N	SS-111-915	7.94	(1), D	32
	SS-112-917	0.14	(1)	22
N	SS-117-950	48.1	(1), D	9.3
N	SS-119-954	34.4	(1), D	40
N	SS-120-956	4.66	(1), D	46
N	SS-121-958	18	(1), D	22
N	SS-123-962	2.61	(1), D	10
	SS-124-964	11.98	(1), D	24
N	SS-131-998	4.86	(1), D	22
N	SS-132-1000	2.54	(1), D	24
N	SS-133-1002	5.9	(1), D	21
N	SS-134-1004	6.8	(1), D	28
N	SS-135-1006	4.48	(1), D	29
N	SS-136-1008	4.2		23
	SS-137-1010	17.7	(1), D	59
	SS-138-1012	24.7	(1), D	84
	SS-139-407	30	(1), D	26
N	SS-140-1040	1.55	(1), D	28
N	SS-141-1042	0.071	(1), B	30
N	SS-143-1120	5.5	(1), D	35
N	SS-144-424	2.05	(1), D	12

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

B - Compound also detected in method blank.

* - QC not within limits; results should be considered as estimated.

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES
(1/24/02)

Sample	Total PCBs (ppm)		Lead (ppm)
SS-S1B-1	0.062	(1)	12
SS-S1B-2	ND		6.7
SS-S1B-3	ND		12
SS-S1B-4	ND		12
SS-S1B-5	0.8	(1)	23
SS-S1B-6	0.17	(1)	22
SS-S1B-7	0.61	(1)	25
SS-ND-1	0.0456	(1)	37
SS-ND-2	0.02	(1)	22
SS-ND-3	0.034	(1)	18
SS-ND-4	0.044	(1)	25
SS-ND-5	0.03	(1)	16
SS-ND-6	0.409	(1)	36
SS-ND-7	0.122	(1)	18
SS-ND-8	4.93	(1), D	110
SS-ND-9	0.171	(1)	21
SS-ND-10	0.074	(1)	16
SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch
SS-S1B Samples collected from Stream 1-B
ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
ND - Not Detected
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

"Complete Solutions to Your Environmental Concerns"

Agenda # **23**
Progress Meeting
Date: January 29th, 2002

1) **Comments From Previous Progress Meeting:**

A) Code indicated that there was an alternative outlet for the wood chips at Day park offered to Piscataway township instead of using them at the Chemsol project

B) Lab results of the greenish material found in the limits of excavation were attached to the meeting minutes, The greenish material is hazardous because of high reactive sulfides, Code indicated that the material was acceptable to US Liquids for Chemox treatment as a D003

C) Two loads of material going to US Liquids exceeded facility acceptance criteria and were rejected, The loads will be returned and dumped on-site, The trucks will be loaded with the greenish material and shipped to US Liquids, The returned material will be placed in roll off containers for disposal characterization and approval

D) Code asked if the tank that was found at the Northwest corner of the building foundation was to be addressed as a DEP regulated UST or a non-regulated UST, All in attendance answered that the tank is a non-regulated tank, It was asked how much and what type of waste was generated and where it would be disposed of during the UST removal, Code indicated that there was 3 drums of oil / water/ sludge and would mostly be handled by Cycle Chem or Lorco, Tams asked if the material should be tested for PCB's, It was said that no sample is required based on knowledge of the piping configuration indicating heating oil

E) Water in UST excavation will be pumped into drums and visually stained soils will be excavated and disposed at Linden landfill

F) Code indicated that the cinder blocks from the former foundation was going out as non-haz, The footing foundation will stay as per B&C direction

G) Code indicated that the lab packing operations should be completed this week

H) Code indicated that the surveyors will be here next week to continue post excavation survey

I) Tams asked if Code could supply B&C with a copy of the waste characterization sampling results for the TWCA soils

J) Code said that they will submit Branchburg as an alternative subsoil source

K) Code indicated that they are waiting for the organic content from key tech for top soil material

L) de-maximus asked about Codes plans for de-mobilization, Code stated that they would probably start with the B&C/Tams trailer at the end of February

M) Next meeting will be Tuesday,

2) **Work in Progress January 25th through January 29th**

A) Continue to excavate, transport and dispose of non-haz soils
B) Continue backfilling operations in approved areas
C) Load and transport material from TWCA to US Liquids
D) Accept 4 rejected loads back at site from US Liquids
E) Containerize rejected material in roll-offs and stage on haul road
F) Trans & Disp. of 4 loads DOO3 waste stream to US Liquids
G) Removed, stockpiled & washed concrete from pad, begin loading for recycling
H) Continue lab packing operations in treatment building
I) Decon & remove frak tanks from rear of treatment building
J) Clean decon holding tank and stage waste for disposal
K) Restore former TWCA area with seed and mulch
L) Remove tires from TWCA and stage for recycling
M) Sample 12% organic content topsoil

3) **Field observations, problems and decisions:**

A) None

4) **Identification of problems impeding planned progress:**

A) Weather

5) **Review of submittal schedule and status of submittals:**

A) Sub soil, Chubb Way (Approved)

6) **Maintenance of progress schedule:**

A) Due February 4th

7) **Planned progress during succeeding work period Jan.30th through Feb 4th**

A) Continue excavation, transportation and disposal of non-haz soils to multiple disposal facilities
B) Continue backfilling in approved areas
C) Continue water management measures
D) Continue to perform post excavation survey
E) Continue concrete disposal
F) Perform waste classification and profile acceptance for rejected hazardous soils

8) **Health and Safety:**

A) No injuries or deficiencies to report
B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**

A) None

10) **Variances From Specification:**

A) None

11) **Additional Comments:**

Project / Daily Totals

Project to-date Total Tons		**52,902.74**	Total Non-Haz	**47,073.46**
Project to-date Total Loads		**2,128**	Total Haz	**5,829.28**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	21	470.98		110%
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		Average Load
10/30/2001	29	667.00		24.9
10/31/2001	50	1,163.20		
11/1/2001	25	490.48		
11/2/2001	29	591.43	3,792.27	
11/5/2001	32	748.75		
11/6/2001	2	46.32		
11/7/2001	33	773.45		
11/8/2001	57	1,362.52		
11/9/2001	43	1,042.11	3,973.15	
11/13/2001	56	1,397.34		
11/14/2001	45	1,113.27		
11/15/2001	57	1,463.29		
11/16/2001	46	1,189.94	5,163.84	
11/19/2001	46	1,163.31		
11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
12/6/2001	72	1,851.70		
12/7/2001	65	1,627.61	6,177.16	
12/10/2001	61	1,568.05		
12/11/2001	28	622.59		
12/12/2001	53	1,327.77		
12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	

12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
1/3/2002	54	1,280.58		
1/4/2002	43	1,010.84	3,421.21	
1/7/2002	48	1,176.29		
1/8/2002	44	1,097.38		
1/9/2002	34	844.77		
1/10/2002	53	1,322.58		
1/11/2002	32	804.26	5,245.28	
1/14/2002	67	1,725.62		
1/16/2002	66	1,648.97		
1/17/2002	34	786.65		
1/18/2002	39	906.40	5,067.64	
1/21/2002	10	237.48		
1/22/2002	23	543.36		
1/23/2002	23	530.72		
1/25/2002	24	544.48	1,856.04	
1/28/2002	43	965.61		
1/29/2002				
1/30/2002				
1/31/2002				
2/1/2002			965.61	
Waste	Tons			
TSCA/RCRA	180.41			
VOC Soil	5,465.37			
TSCA	183.50			

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: January 24th, 2002

Printed Name	Signature	Company
Bill Lee		demaximis
MARK GAMBUCCI		CODE
THOMAS TOMASSETTI		CODE
Steve Kessel		Brown and Caldwell
Maheyar R. Bilimoria		TAMS (EarthTech)
Jenifer L Hyens		TAMS (EarthTech)
Nigel Robinson		EPA
Carla Oliveira		Brown & Caldwell

"Complete Solutions to Your Environmental Concerns"

Agenda # 24
Progress Meeting
Date: February 5th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Code explained the procedure associated with the rejected loads from US Liquids. Returned material was placed in roll-off containers for future disposal consideration
   - B) The D003 material {Green Dirt} was shipped to US Liquids with the trucks that returned with the rejected loads
   - C) John Bruzzi asked who was going to characterize the soil in the roll-off containers. Code indicated that they were going to obtaining a 5 part composite sample of each container for treatability purposes, the generator will characterize the waste codes on the profile
   - D) B&C asked if the loads that were rejected had similar characteristics, Code indicated the soils were all associated with the lab pack drum excavation
   - E) Code indicated that the water in the 500 gal. UST excavation was pumped into drums and visually stained soils would be excavated and sent to Linden
   - F) B&C asked if a small footing foundation within the limits of excavation could be removed, Code indicated they would remove it
   - G) de-maximus asked to give the fuming (reactive) bottles priority on disposal
   - H) The original sample from Natures Choice had an organic content of 4.5 %. Natures Choice is delivering a second sample augmented, 2 to 1 with leaf mulch for testing at Key Tech, B&C asked where Natures Choice will mix the soils and mulch, Code said that they will mix at the site where the material is staged on Chimney Rock Road, Bridgewater
   - I) With regards to the Health and Safety audit performed on 1/25/02, Tams indicated that their subcontractor gave Code a good report
   - J) B&C asked wheatear the roll off containers need to be labeled. Code stated that would review the requirements and place labels on containers if required
   - K) Next progress meeting will be on Tuesday 2/5/02

2) **Work in Progress January 30th through February 5th**
   A) Completed excavation, transportation and disposal of non-haz soils to Linden
   B) Continue backfilling operations in approved areas
   C) Complete lab packing operations in treatment building, vacate area
   D) Complete concrete transportation and recycling
   E) Complete restoration of TWCA
   F) Exposed, excavated, cleaned 2000 gallon heating oil UST
   G) Disposed of 2150 gallons of oil and water to Lorco, stained soils excavated were sent to Linden Landfill
   H) Disposed of 22 tires from former TWCA
   I) Continued post excavation survey
   J) Sent composite samples from roll-off containers to Environmental Quality Company

3) **Field observations, problems and decisions:**
   A) 2000 gal. UST

4) **Identification of problems impeding planned progress:**
   A) Weather
   B) 12% organic content of topsoil (waiting for third sample)

5) **Review of submittal schedule and status of submittals:**
   A) Submitted EQ's permit 1/29/02

6) **Maintenance of progress schedule:**
   A) See Attached

7) **Planned progress during succeeding work period Feb. 6th through Feb 11th**
   A) Continue backfilling in approved areas
   B) Submit topsoil for approval
   C) Continue to perform post excavation survey
   D) Begin demobilization of equipment
   E) Break down scale and demob.

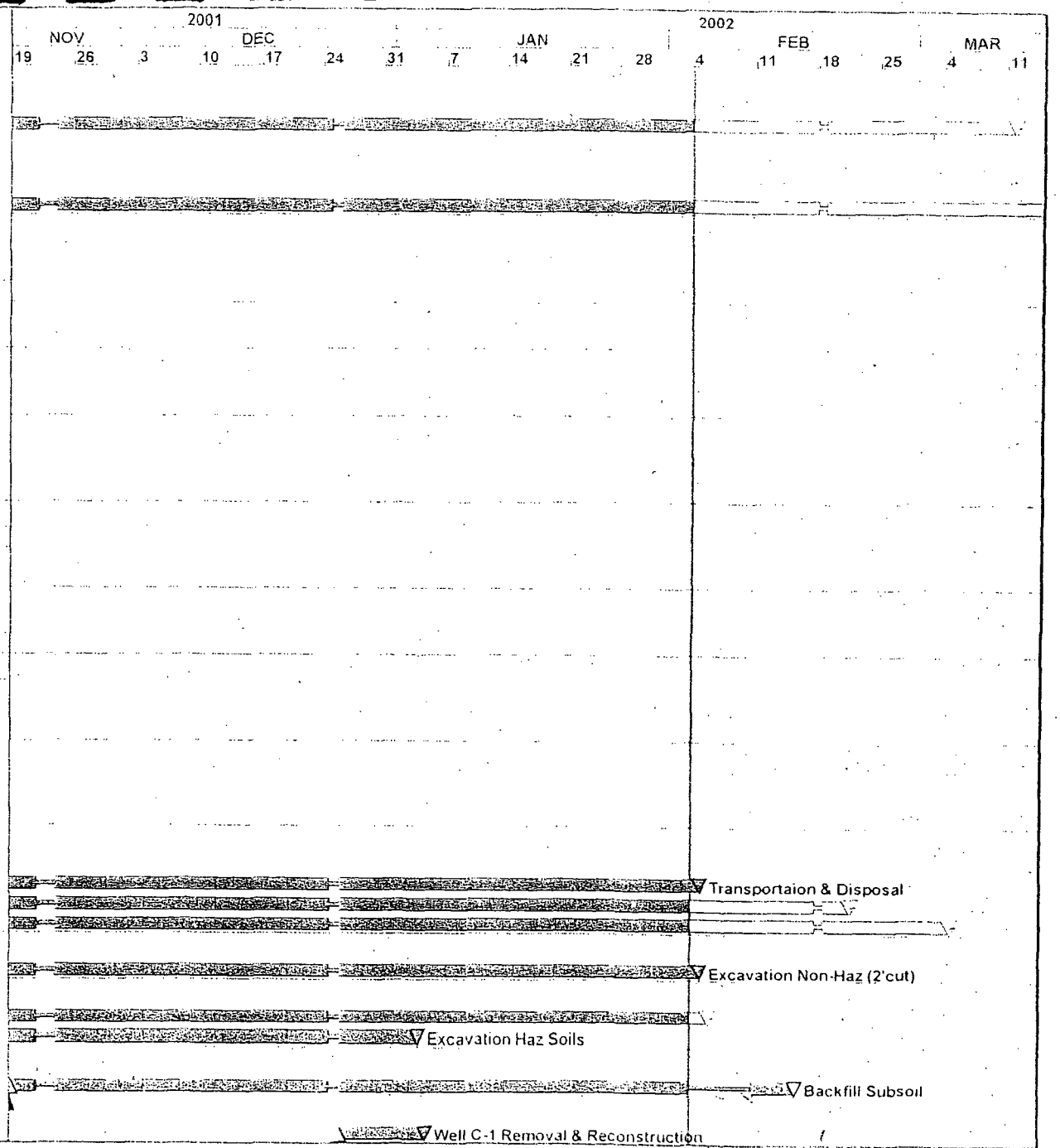
8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) Arko Paper Access due to expire

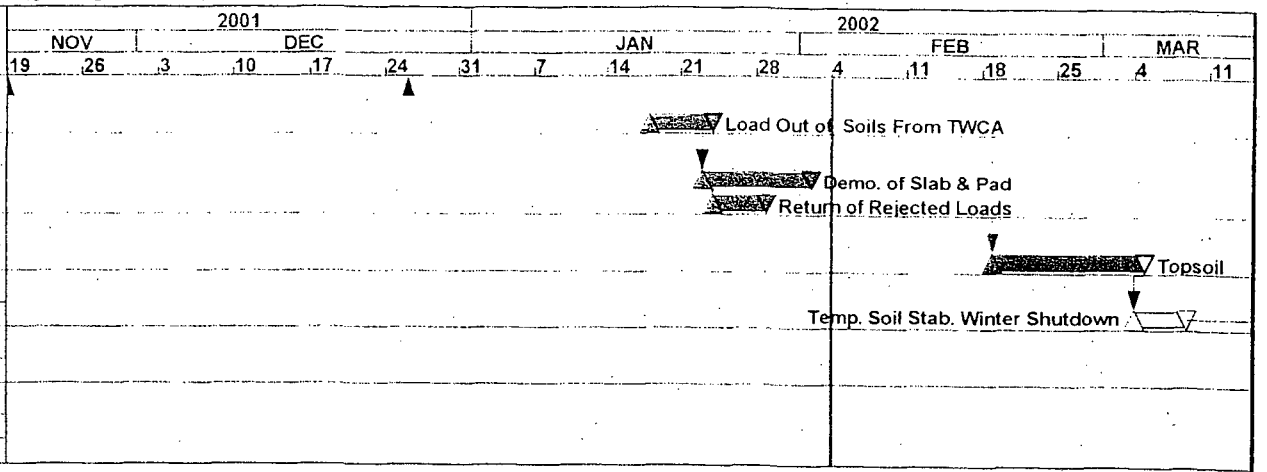
10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	11MAR02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171*	13AUG01A	17APR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz.Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	04FEB02A
225	Water & Dust Control	63	25OCT01A	21FEB02
295	Traffic Control	63	25OCT01A	04MAR02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	04FEB02A
12NOV01				
275	Post Excav. Survey	35	12NOV01A	05FEB02
175	Excavation Haz Soils	15	13NOV01A	03JAN02A
19NOV01				
215	Backfill Subsoil	40	19NOV01A	15FEB02
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	04JAN02A



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
14JAN02				
415	Load Out of Soils From TWCA	3	18JAN02A	23JAN02A
21JAN02				
165	Demo. of Slab & Pad	3	23JAN02A	01FEB02A
425	Return of Rejected Loads	2	24JAN02A	28JAN02A
18FEB02				
245	Topsoil	10	19FEB02	04MAR02
04MAR02				
335	Temp. Soil Stab. Winter	5	04MAR02	08MAR02
01APR02				
255	Wetlands Restoration	10	01APR02*	12APR02
15APR02				
265	Demob. & Project Closeout	5	15APR02	19APR02
285	Final Survey	3	15APR02	17APR02



SUMMARY OF POST-EXCAVATION SAMPLES
(02/05/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-1-449	0.183		30
	SS-2-451	3.91	D	70
	SS-3-453	0.38		22
	SS-4-455	0.145	*	29
	SS-5-456	0.295	*	23
	SS-6-458	3.69	*, D	46
	SS-7-460	ND		28
	SS-8-462	0.012	*	24
	SS-9-468	1.39	*	37
	SS-10-466	2.56	*, D	80
	SS-11-1136	2.24	*, D	66
	SS-12	2.89	*, D	96
	SS-11B-1136	4	*, D	150
	SS-12B	0.95	(1)	61
	SS-13-1112	ND		5.7
N	SS-16-1103	0.646	(1)	10
N	SS-17-1101	0.38	(1)	15
	SS-23-1076	0.108	(1)	14
	SS-24-1074	0.061	(1)	15
	SS-25-1072	0.097	(1)	13
	SS-26-1070	0.208	(1)	17
	SS-27-1061	7.4	(1), D	40
	SS-28-1059	0.29		12
	SS-29-1057	0.072	(1)	16
	SS-30-1043	1.02	(1)	14
	SS-31-1045	0.232	(1)	9.9
	SS-32-1047	0.04	(1)	12
	SS-33-1049	ND		12
	SS-35-491	1.43	(1), D	68
	SS-36-493	5.98	(1), D	54
	SS-37-495	6.9	(1), D	45
	SS-38-497	11	(1), D	45
	SS-39-499	10.4	(1), D	83
	SS-40-637	1.62	(1)	63
	SS-41-639	28.1	(1), D	170
	SS-42-641	0.32	(1)	21
	SS-48-672	10.9	(1), D	340
	SS-49-674	13.6	(1), D	240
	SS-50-676	12	(1), D	32
	SS-51-678	5.8	(1), D	28
	SS-52-680	0.066	(1)	18
	SS-53-982	0.79	(1)	27
N	SS-61-723	20.6	(1), D	3400
N	SS-62-725	0.52	(1)	55
	SS-63-727	0.7	(1), D	40
	SS-64-729	3.28	(1), D	44
	SS-65-731	7	(1), D	52
	SS-66-733	0.081	(1)	16

SUMMARY OF POST-EXCAVATION SAMPLES
(02/05/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
N	SS-74-776	2.01	(1), D	190
N	SS-75-777	8.4	(1), D	48
	SS-79-785	ND		16
N	SS-85-822	0.392	(1)	85
N	SS-86-824	0.377	(1)	40
	SS-90-831	4.44	(1), D	150
N	SS-96-842	ND	(2)	330
N	SS-97-865	0.48	(1)	250
	SS-101-873	3	(1), D	14
	SS-110-913	14.97	(1), D	14
	SS-111-915	7.94	(1), D	32
	SS-112-917	0.14	(1)	22
	SS-117-950	48.1	(1), D	9.3
	SS-119-954	34.4	(1), D	40
	SS-120-956	4.66	(1), D	46
	SS-121-958	18	(1), D	22
	SS-123-962	2.61	(1), D	10
	SS-124-964	11.98	(1), D	24
	SS-131-998	4.86	(1), D	22
	SS-132-1000	2.54	(1), D	24
	SS-133-1002	5.9	(1), D	21
	SS-134-1004	6.8	(1), D	28
	SS-135-1006	4.48	(1), D	29
	SS-136-1008	4.2		23
	SS-137-1010	17.7	(1), D	59
	SS-138-1012	24.7	(1), D	84
	SS-139-407	30	(1), D	26
	SS-140-1040	1.55	(1), D	28
	SS-141-1042	0.071	(1), B	30
	SS-143-1120	5.5	(1), D	35
	SS-144-424	2.05	(1), D	12

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

B - Compound also detected in method blank.

* - QC not within limits; results should be considered as estimated.

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

(2)- Due to sample matrix interference, the detection limit for this compound was increased.

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES
(02/05/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-S1B-1	0.062	(1)	12
	SS-S1B-2	ND		6.7
	SS-S1B-3	ND		12
	SS-S1B-4	ND		12
	SS-S1B-5	0.8	(1)	23
	SS-S1B-6	0.17	(1)	22
	SS-S1B-7	0.61	(1)	25
N	SS-S1B-8			26
	SS-ND-1	0.0456	(1)	37
	SS-ND-2	0.02	(1)	22
	SS-ND-3	0.034	(1)	18
	SS-ND-4	0.044	(1)	25
	SS-ND-5	0.03	(1)	16
	SS-ND-6	0.409	(1)	36
	SS-ND-7	0.122	(1)	18
	SS-ND-8	4.93	(1), D	110
	SS-ND-9	0.171	(1)	21
	SS-ND-10	0.074	(1)	16
	SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch

SS-S1B Samples collected from Stream 1-B

ppm - parts per million

D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.

ND - Not Detected

(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

Project / Daily Totals				
Project to-date Total Tons		**58,255.94**	Total Non-Haz	**52,426.66**
Project to-date Total Loads		**2,383**	Total Haz	**5,829.28**
Date	Daily Total Loads	Daily Total Est. Tons	Weekly Total Est. Tons	Percent Complete
10/25/2001	21	470.98		121%
10/26/2001	33	743.34	1,214.32	
10/29/2001	36	880.17		Average Load
10/30/2001	29	667.00		24.4
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11/20/2001	44	1,071.29		
11/21/2001	20	464.65	2,699.25	
11/26/2001	35	869.63		
11/27/2001	42	1,072.34		
11/28/2001	53	1,262.38		
11/29/2001	53	1,309.42	4,513.77	
12/3/2001	11	257.77		
12/4/2001	38	933.30		
12/5/2001	58	1,506.78		
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12/13/2001	24	615.51		
12/14/2001	25	624.83	4,758.75	
12/17/2001	11	260.41		
12/18/2001	34	864.71		
12/19/2001	22	564.25		
12/20/2001	43	1,000.20		
12/21/2001	37	918.03	3,607.60	

12/28/2001	19	446.85	446.85	
1/2/2002	46	1,129.79		
1/3/2002	54	1,280.58		
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1/7/2002	48	1,176.29		
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1/10/2002	53	1,322.58		
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1/18/2002	39	906.40	5,067.64	
1/21/2002	10	237.48		
1/22/2002	23	543.36		
1/23/2002	23	530.72		
1/25/2002	24	544.48	1,856.04	
1/28/2002	43	965.61		
1/29/2002	42	1,069.48		
1/30/2002	27	673.66		
1/31/2002	52	1,262.56		
2/1/2002	53	1,345.61	5,316.92	
2/4/2002	38	1,001.90	1,001.90	
Waste	Tons			
TSCA/RCRA	180.41			
VOC Soil	5,465.37			
TSCA	183.50			

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: January 29th, 2002

Printed Name	Signature	Company
TOM TOMASSETTE	Thomas Tomassetti	CODE
MARK GAMBUCCI	[illegible]	CODE
Bill Lee	[illegible]	de maximis
Steve Kessel	[illegible]	Brown & Caldwell
JOHN BRUZZI	[illegible]	Exxon Mobil
Gary DiPippo	[illegible]	Brown & Caldwell
Jennifer Hynni	[illegible]	TAMS
MAHESHAR R. BILIMORIA	[illegible]	TAMS
Carla Oliveira	Carla Oliveira	Brown & Caldwell

"Complete Solutions to Your Environmental Concerns"

Agenda # 25
Progress Meeting
Date: February 12th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Code briefly explained how they will treat the fuming reactive, Code needs to order a special container as a backup if there is not enough glass stem remaining on the bottle to fuse closed
   - B) Submitted 2nd sample for organic content to Key Tech for analysis, Due to a deviation in the AASHTO T 194 standard required to best represent the organic content Key Tech will require a letter requesting the variance
   - C) B&C will call the NJDEP to discuss how to achieve the desired organic content of the topsoil
   - D) Code indicated that they labeled the hazardous roll-off containers
   - E) Tams asked if Lorco had any analytical data on the liquid from the 2 UST's, Code stated that Lorco field screened for PCB's prior to accepting the tank contents
   - F) Code indicated that E Q needed three more days to perform there treatability study for the material in the roll-off containers, EQ review & approval still pending
   - G) Arko access agreement terminated on February 6th, de maximis is in discussion with the township officials to use Fleming Street as an alternate access

2) **Work in Progress January 6th through February 12th**
   - A) Finished excavating , transportation and dispose of non-haz soils
   - B) Removed scales and tracking pad
   - C) Completed post excavation survey
   - D) Continued backfilling operations in approved areas
   - E) Finished lab packing operations in treatment building
   - F) Excavated and repaired leak in effluent line from treatment facility
   - G) Discovered additional area of bottles & reactive chemicals near effluent line
   - H) Pumped water from excavation over Buckeye pipeline, sampled and backfilled
   - I) Surveyors laid out final grade contours throughout site
   - J) Started fine grade of subsoil material
   - K) Sampled roll-off containers for disposal considerations

3) **Field observations, problems and decisions:**
   - A) Final grading plan adjacent to well C-1 (76 contour interval)

4) **Identification of problems impeding planned progress:**
   A) Arko access agreement
   B) Final grading plan

5) **Review of submittal schedule and status of submittals:**
   A) Top soil (Natures Choice) submittal approved

6) **Maintenance of progress schedule:**
   A) Due on February 19, 2002

7) **Planned progress during succeeding work period Feb. 13th through Feb 18th**
   A) Continue with fine grade of subsoil material

8) **Health and Safety:**
   A) No injuries or deficiencies to report
   B) Continue to perform air monitoring & submit results

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

SUMMARY OF POST-EXCAVATION SAMPLES
(02/12/02)

Sample	Total PCBs (ppm)		Lead (ppm)
SS-1-449	0.183		30
SS-2-451	3.91	D	70
SS-3-453	0.38		22
SS-4-455	0.145	*	29
SS-5-456	0.295	*	23
SS-6-458	3.69	*, D	46
SS-7-460	ND		28
SS-8-462	0.012	*	24
SS-9-468	1.39	*	37
SS-10-466	2.56	*, D	80
SS-11-1136	2.24	*, D	66
SS-12	2.89	*, D	96
SS-11B-1136	4	*, D	150
SS-12B	0.95	(1)	61
SS-13-1112	ND		5.7
SS-16-1103	0.646	(1)	10
SS-17-1101	0.38	(1)	15
SS-23-1076	0.108	(1)	14
SS-24-1074	0.061	(1)	15
SS-25-1072	0.097	(1)	13
SS-26-1070	0.208	(1)	17
SS-27-1061	7.4	(1), D	40
SS-28-1059	0.29		12
SS-29-1057	0.072	(1)	16
SS-30-1043	1.02	(1)	14
SS-31-1045	0.232	(1)	9.9
SS-32-1047	0.04	(1)	12
SS-33-1049	ND		12
SS-35-491	1.43	(1), D	68
SS-36-493	5.98	(1), D	54
SS-37-495	6.9	(1), D	45
SS-38-497	11	(1), D	45
SS-39-499	10.4	(1), D	83
SS-40-637	1.62	(1)	63
SS-41-639	28.1	(1), D	170
SS-42-641	0.32	(1)	21
SS-48-672	10.9	(1), D	340
SS-49-674	13.6	(1), D	240
SS-50-676	12	(1), D	32
SS-51-678	5.8	(1), D	28
SS-52-680	0.066	(1)	18
SS-53-982	0.79	(1)	27
SS-61-723	20.6	(1), D	3400
SS-62-725	0.52	(1)	55
SS-63-727	0.7	(1), D	40
SS-64-729	3.28	(1), D	44
SS-65-731	7	(1), D	52
SS-66-733	0.081	(1)	16

SUMMARY OF POST-EXCAVATION SAMPLES
(02/12/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-74-776	2.01	(1), D	190
	SS-75-777	8.4	(1), D	48
	SS-79-785	ND		16
	SS-85-822	0.392	(1)	85
	SS-86-824	0.377	(1)	40
	SS-90-831	4.44	(1), D	150
	SS-96-842	ND	(2)	330
	SS-97-865	0.48	(1)	250
	SS-101-873	3	(1), D	14
	SS-110-913	14.97	(1), D	14
	SS-111-915	7.94	(1), D	32
	SS-112-917	0.14	(1)	22
	SS-117-950	48.1	(1), D	9.3
	SS-119-954	34.4	(1), D	40
	SS-120-956	4.66	(1), D	46
	SS-121-958	18	(1), D	22
	SS-123-962	2.61	(1), D	10
	SS-124-964	11.98	(1), D	24
	SS-131-998	4.86	(1), D	22
	SS-132-1000	2.54	(1), D	24
	SS-133-1002	5.9	(1), D	21
	SS-134-1004	6.8	(1), D	28
	SS-135-1006	4.48	(1), D	29
	SS-136-1008	4.2		23
N	SS-137-1010	12.4	(1), D	
N	SS-138-1012	20.2	(1), D	
	SS-139-407	30	(1), D	26
	SS-140-1040	1.55	(1), D	28
	SS-141-1042	0.071	(1), B	30
	SS-143-1120	5.5	(1), D	35
	SS-144-424	2.05	(1), D	12

ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
B - Compound also detected in method blank.
* - QC not within limits; results should be considered as estimated.
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.
(2)- Due to sample matrix interference, the detection limit for this compound was increased.

Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: February 5th, 2002

Printed Name	Signature	Company
JOHN BRUZZI	John Bruzzi	ExxonMobil
Jennifer Higgins	[illegible]	TAMS
Bill Lee	[illegible]	de maximis
Maheyar Bilimoria	[illegible]	TAMS
Tom TOMASSETTI	Thomas Tomassetti	CODE
MARK GAMBUCCI	[illegible]	CODE
Steve Kessel	[illegible]	Brown & Caldwell
Carla Oliveira	Brown & Caldwell →	Carla Oliveira

"Complete Solutions to Your Environmental Concerns"

Agenda # 26
Progress Meeting
Date: February 26th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Uncovered two additional reactives in area next to effluent pipe from treatment facility, Codes chemist will measure to obtain DOT shipping containers as a backup to treatment at site
   - B) B&C indicated that the NJDEP encountered similar problems in obtaining 12% organic content at other sites, A verbal approval from NJDEP to B&C of 8% organic content for the wetland restoration is acceptable, The NJDEP will follow up with a letter to B&C
   - C) A pre-construction meeting with the NJDEP is tentatively scheduled for next Tuesday to inspect the sub-base material and address any issues regarding the wetlands mitigation, The EPA will let us know if they need to be present for the meeting
   - D) Code indicated that E Q could not accept the material contained in the roll off containers
   - E) Everyone agreed that no further air monitoring is required due to the fact that clean backfill covers the entire site
   - F) No variance form is required for the deviation in the AASHTO T-194 standard for organic content
   - G) Discussion regarding possible modifications of restoration grade 76

2) **Work in Progress February 13th through February 25th**
   - A) Completed the removal of the PVC effluent piping and the installation of the HDPE piping from the Eastern end of the previously installed pipe to stream 1A
   - B) Completed fine-grade adjustments of the sub-base material, upland grades adjusted to meet existing perimeter grades, mound placed over recovery pipe to protect against freezing
   - C) Complete Hazardous-Categorizing of bottles from effluent line excavation
   - D) Sampled stockpiled soils generated during effluent pipe repair for waste characterization
   - E) Connected the new perimeter chain-link fence with existing fence
   - F) Drummed Hg contaminated soil in 17H drum for disposal
   - G) Continued water management

H) Begin to import topsoil material and grading operations in North area
I) Meeting with NJDEP wetlands specialist, Normandeau (wetlands designer), de maximis, B&C, Tams, Code and Enviroscapes (wetlands subcontractor)
J) Neutralized remnants of fuming bottle found in effluent pipe excavation

3) **Field observations, problems and decisions:**
A) None

4) **Identification of problems impeding planned progress:**
A) Weather

5) **Review of submittal schedule and status of submittals:**
A) Preparing wetlands submittals and schedule

6) **Maintenance of progress schedule:**
A) See attached

7) **Planned progress during succeeding work period Feb. 26th through March 12th**
A) Continue placement of topsoil
B) Load out non-hazardous soils from effluent line to Linden landfill
C) Prepare hazardous and non-hazardous profiles for soil in roll-off containers
D) High hazard work with "fuming" bottle scheduled for Thursday 2/28

8) **Health and Safety:**
A) No injuries or deficiencies to report

9) **Approvals of Permits and Site Access Issues:**
A) None

10) **Variances From Specification:**
A) None

11) **Additional Comments:**

_____

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_____

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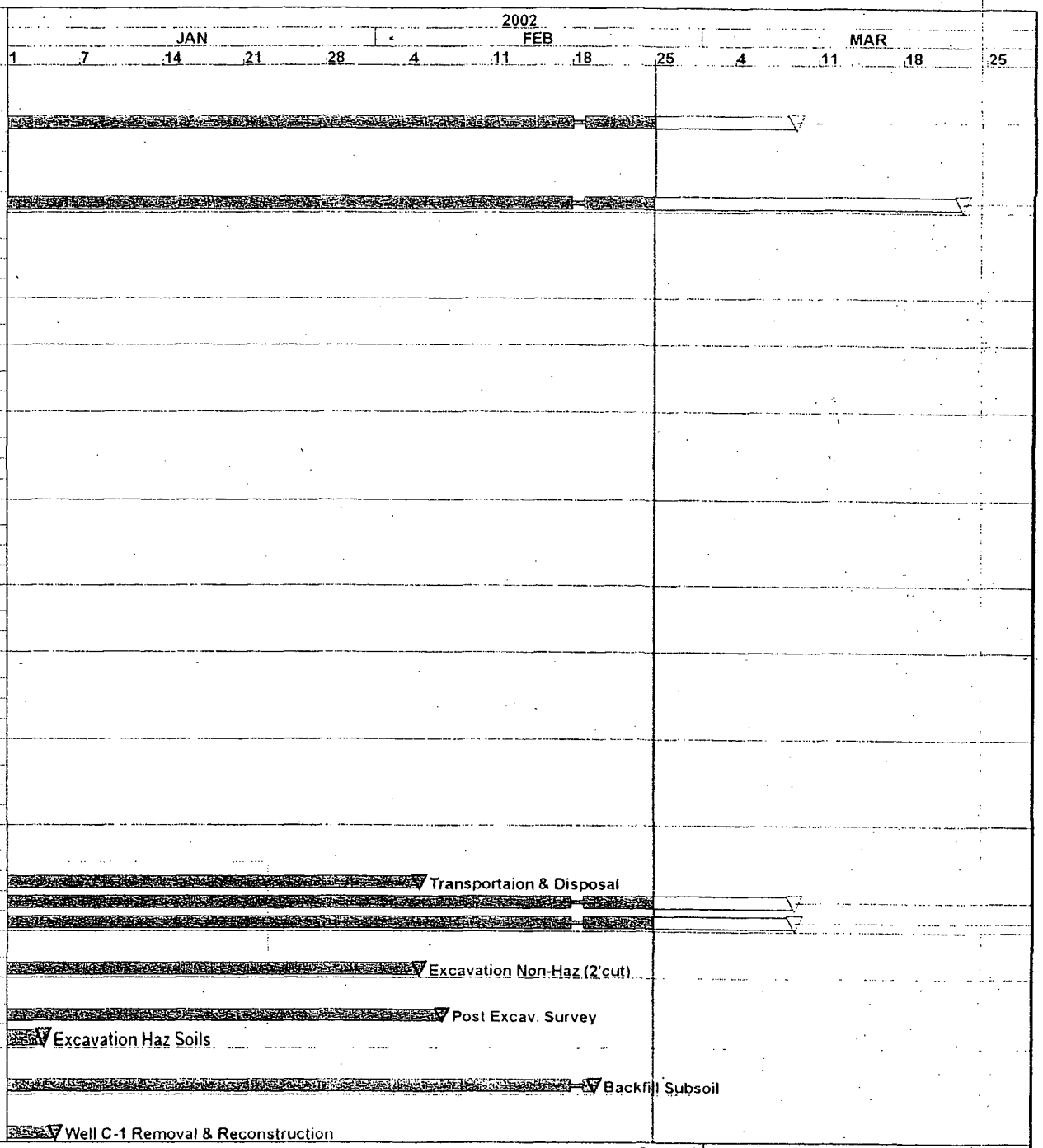
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	08MAR02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171	13AUG01A	22MAR02
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	04FEB02A
225	Water & Dust Control	63	25OCT01A	08MAR02
295	Traffic Control	63	25OCT01A	08MAR02
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	04FEB02A
12NOV01				
275	Post Excav. Survey	35	12NOV01A	06FEB02A
175	Excavation Haz Soils	15	13NOV01A	03JAN02A
19NOV01				
215	Backfill Subsoil	40	19NOV01A	19FEB02A
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	04JAN02A



Project Start 06AUG01
Project Finish 29MAR02
Data Date 25FEB02
Run Date 26FEB02

Early Bar
Float Bar
Progress Bar
Critical Activity

Primavera Systems, Inc

CHEM

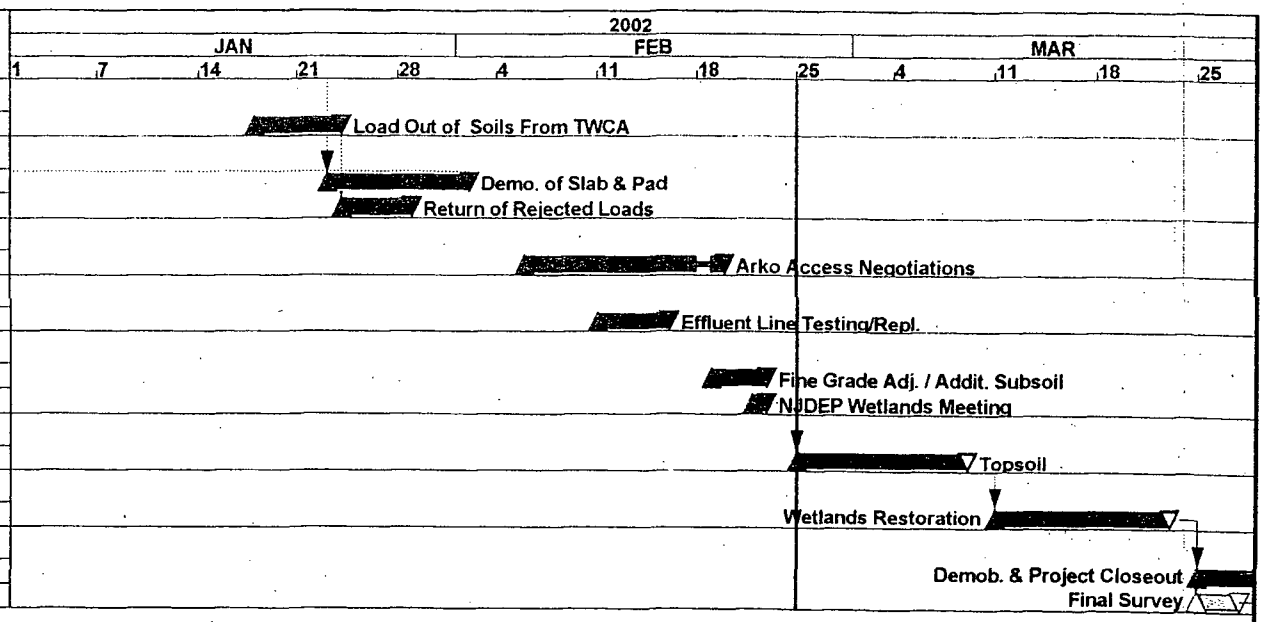
Sheet 1 of 2

Code Environmental Services, Inc

Remedial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
14JAN02				
415	Load Out of Soils From TWCA	3	18JAN02A	23JAN02A
21JAN02				
165	Demo. of Slab & Pad	3	23JAN02A	01FEB02A
425	Return of Rejected Loads	2	24JAN02A	28JAN02A
04FEB02				
335	Arko Access Negotiations	8	06FEB02A	19FEB02A
11FEB02				
445	Effluent Line Testing/Repl.	5	11FEB02A	15FEB02A
18FEB02				
435	Fine Grade Adj. / Addit. Subsoil	4	19FEB02A	22FEB02A
455	NJDEP Wetlands Meeting	1	22FEB02A	22FEB02A
25FEB02				
245	Topsoil	10	25FEB02A	08MAR02
11MAR02				
255	Wetlands Restoration	10	11MAR02	22MAR02
25MAR02				
265	Demob. & Project Closeout	5	25MAR02	29MAR02
285	Final Survey	3	25MAR02	27MAR02



SUMMARY OF POST-EXCAVATION SAMPLES
(02/26/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-61-723	20.6	(1), D	3400
	SS-62-725	0.52	(1)	55
	SS-63-727	0.7	(1), D	40
	SS-64-729	3.28	(1), D	44
	SS-65-731	7	(1), D	52
	SS-66-733	0.081	(1)	16
N	SS-67-761			88
N	SS-68-763			22
N	SS-69-765			23
N	SS-71-752			27
N	SS-73-748			28
	SS-74-776	2.01	(1), D	190
	SS-75-777	8.4	(1), D	48
	SS-79-785	ND		16
N	SS-81-813			13
N	SS-83-801			350
N	SS-84-818			280
	SS-85-822	0.392	(1)	85
	SS-86-824	0.377	(1)	40
	SS-90-831	4.44	(1), D	150
	SS-96-842	ND	(2)	330
	SS-97-865	0.48	(1)	250
	SS-101-873	3	(1), D	14
	SS-110-913	14.97	(1), D	14
	SS-111-915	7.94	(1), D	32
	SS-112-917	0.14	(1)	22
	SS-117-950	48.1	(1), D	9.3
	SS-119-954	34.4	(1), D	40
	SS-120-956	4.66	(1), D	46
	SS-121-958	18	(1), D	22
	SS-123-962	2.61	(1), D	10
	SS-124-964	11.98	(1), D	24
	SS-131-998	4.86	(1), D	22
	SS-132-1000	2.54	(1), D	24
	SS-133-1002	5.9	(1), D	21
	SS-134-1004	6.8	(1), D	28
	SS-135-1006	4.48	(1), D	29
	SS-136-1008	4.2		23
	SS-137-1010	12.4	(1), D	
	SS-138-1012	20.2	(1), D	
	SS-139-407	30	(1), D	26
	SS-140-1040	1.55	(1), D	28
	SS-141-1042	0.071	(1), B	30
	SS-143-1120	5.5	(1), D	35
	SS-144-424	2.05	(1), D	12

ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
B - Compound also detected in method blank.
* - QC not within limits; results should be considered as estimated.
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.
(2)- Due to sample matrix interference, the detection limit for this compound was increased.

SUMMARY OF POST-EXCAVATION SAMPLES
(02/26/02)

	Sample	Total PCBs (ppm)		Lead (ppm)
	SS-1-449	0.183		30
	SS-2-451	3.91	D	70
	SS-3-453	0.38		22
	SS-4-455	0.145	*	29
	SS-5-456	0.295	*	23
	SS-6-458	3.69	*, D	46
	SS-7-460	ND		28
	SS-8-462	0.012	*	24
	SS-9-468	1.39	*	37
	SS-10-466	2.56	*, D	80
	SS-11-1136	2.24	*, D	66
	SS-12	2.89	*, D	96
	SS-11B-1136	4	*, D	150
N	SS-11C-1136			75
	SS-12B	0.95	(1)	61
	SS-13-1112	ND		5.7
N	SS-14-487			27
	SS-16-1103	0.646	(1)	10
	SS-17-1101	0.38	(1)	15
	SS-23-1076	0.108	(1)	14
	SS-24-1074	0.061	(1)	15
	SS-25-1072	0.097	(1)	13
	SS-26-1070	0.208	(1)	17
	SS-27-1061	7.4	(1), D	40
	SS-28-1059	0.29		12
	SS-29-1057	0.072	(1)	16
	SS-30-1043	1.02	(1)	14
	SS-31-1045	0.232	(1)	9.9
	SS-32-1047	0.04	(1)	12
	SS-33-1049	ND		12
N	SS-34-658			20
	SS-35-491	1.43	(1), D	68
	SS-36-493	5.98	(1), D	54
	SS-37-495	6.9	(1), D	45
	SS-38-497	11	(1), D	45
	SS-39-499	10.4	(1), D	83
	SS-40-637	1.62	(1)	63
	SS-41-639	28.1	(1), D	170
	SS-42-641	0.32	(1)	21
N	SS-43-662			30
N	SS-44-664			74
N	SS-45-666			24
N	SS-47-671			180
	SS-48-672	10.9	(1), D	340
	SS-49-674	13.6	(1), D	240
	SS-50-676	12	(1), D	32
	SS-51-678	5.8	(1), D	28
	SS-52-680	0.066	(1)	18
	SS-53-982	0.79	(1)	27
N	SS-55-712			28
N	SS-56-713			23
N	SS-57-715			22
N	SS-58-717			42
N	SS-60-721			860

SUMMARY OF POST-SEDIMENT REMOVAL SAMPLES
(02/26/02)

Sample	Total PCBs (ppm)		Lead (ppm)
SS-S1B-1	0.062	(1)	12
SS-S1B-2	ND		6.7
SS-S1B-3	ND		12
SS-S1B-4	ND		12
SS-S1B-5	0.8	(1)	23
SS-S1B-6	0.17	(1)	22
SS-S1B-7	0.61	(1)	25
SS-S1B-8	0.21	(1)	26
SS-ND-1	0.0456	(1)	37
SS-ND-2	0.02	(1)	22
SS-ND-3	0.034	(1)	18
SS-ND-4	0.044	(1)	25
SS-ND-5	0.03	(1)	16
SS-ND-6	0.409	(1)	36
SS-ND-7	0.122	(1)	18
SS-ND-8	4.93	(1), D	110
SS-ND-9	0.171	(1)	21
SS-ND-10	0.074	(1)	16
SS-ND-11	0.161	(1)	12

SS-ND Samples collected from the Northern Ditch
SS-S1B Samples collected from Stream 1-B
ppm - parts per million
D - Sample was rerun diluted because compound concentrations exceeded highest concentration ranged for the standard curve.
ND - Not Detected
(1) - Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

Code Environmental Services, Inc.

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Weekly Progress Meeting
Sign In Sheet

Date: February 12th, 2002

Printed Name	Signature	Company
Bill Lee	[illegible]	demaximis
Steve Kessel	[illegible]	Brown & Caldwell
Carla Oliveira	Carla Oliveira	Brown & Caldwell
Jennifer Higgins	[illegible]	TAMS
Mahyar R. Bilimoria	[illegible]	TAMS
Nigel Robinson	[illegible]	EPA
THOMAS TOMASSETTI	THOMAS TOMASSETTI	CODE
MARK GAMBUCCI	[illegible]	CODE

Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Agenda # 27
Progress Meeting
Date: March 22th, 2002

1) **Comments From Previous Progress Meeting:**
   - A) Code indicated that of the 6 roll-off containers, 3 of them will have to go for incineration, 1 container can go direct to the landfill and the remaining 2 containers will be treated prior to disposal. Tams asked what the treatment will be, Code stated it will be Chem-ox treatment with direct disposal at Model City
   - B) Code indicated that the results of the soil piles generated from the effluent line excavation were non-haz except an area where obvious mercury was observed, The Hg soil was drummed and will have to be disposed of at AERC the balance will be disposed of at Linden Landfill
   - C) No additional meetings are necessary with the NJDEP until final inspection of the wetlands
   - D) Carla of B&C stated none of the damaged pizometers will have to be restored but two will need to be properly closed by a licenses driller
   - E) Carla of B&C stated that she will be replaced by Jim Marulda and could be reached at her office and will be available for meetings
   - F) B&C indicated that they recovered a lost cooler containing samples from Fed-X. Although the hold time for PCB's expired, they will run the samples anyway with notation to that fact
   - G) de-maximis suggested we have meetings bi-weekly (everyone agreed). The next meeting will be March 12th

2) **Work in Progress February 27th through March 21th**
   - A) Disposed of soil stockpiles generated during effluent pipe repair to Linden
   - B) Continued to pump water to aid in the placement of top soil
   - C) Continued to place top soil and fine grade
   - D) Field stabilized two reactive bottles from area 3 for transportation and disposal
   - E) Demob trailer occupied by B&C and Tams
   - F) Saw cut blacktop for trench installation
   - G) Installed effluent pipe from treatment building to previously installed HDPE pipe

3) **Field observations, problems and decisions:**
   A) None

4) **Identification of problems impeding planned progress:**
   A) Wet weather

5) **Review of submittal schedule and status of submittals:**
   A) Approval for wetland mitigation pending

6) **Maintenance of progress schedule:**
   A) See attached table

7) **Planned progress during succeeding work period March 22th through compilation**
   A) Wetlands mitigation
   B) Disposal of roll offs
   C) Final cleanup
   D) Demobilization of equipment & temporary storage facilities

8) **Health and Safety:**
   A) Accident causing exposure to one Code employee handling reactive bottle

9) **Approvals of Permits and Site Access Issues:**
   A) None

10) **Variances From Specification:**
   A) None

11) **Additional Comments:**

DRAFT
CHEMSOL INC. SUPERFUND SITE
REMEDIAL WORK ELEMLENT I, SOILS
CONSTRUCTION PUNCHLIST
3/18/2002

ITEM	SPEC. SECTION	STATUS	DATE COMPLETED
1. Pre-Final EPA Inspection	N/A	Outstanding	
2. Submittal of Post-Excavation Plan (1st revision)	01300	In Progress	
3. Submittal of bills of ladings and manifests	02325	In Progress	
4. Submittal of topsoil sieve analyses	02300	In Progress	
5. Submittal of final topsoil analytical data (second sample)	02300	In Progress	
6. Submittal of topsoil analysis (fertilizer and mulch appl. rates)	02325	In Progress	
7. Submittal of construction photographs (9/01 - 3/02)	01300	In Progress	
8. Transportation & disposal of lab packed drums	02325	In Progress	
9. Transportation & disposal of hazardous roll-off containers	02325	In Progress	
10. Seed (wetland mix) areas adjacent to access road (Lot 1.01)	N/A	Outstanding	
11. Submittal of Site Restoration survey plan	01300	Outstanding	
12. Asphalt mix (Surface Course) submittal	02510	Outstanding	
13. Repair (i.e., seed and mulch) areas adjacent to access road (Arko)	N/A	Outstanding	
14. Remove construction fencing	N/A	Outstanding	
15. Repair sides of decon pad	N/A	Outstanding	
16. Repair treatment building overhead door frame	N/A	Outstanding	
17. Install gate on Arko Property at Stream 1-A	02821	Outstanding	
18. Install curb and paving on Arko property	02510	Outstanding	
19. Final EPA Inspection	N/A	Outstanding	
20. Remove temporary facilities and equipment	N/A	In Progress	
21. Removal of soil erosion and sediment controls after established veg. growth	N/A	Outstanding	

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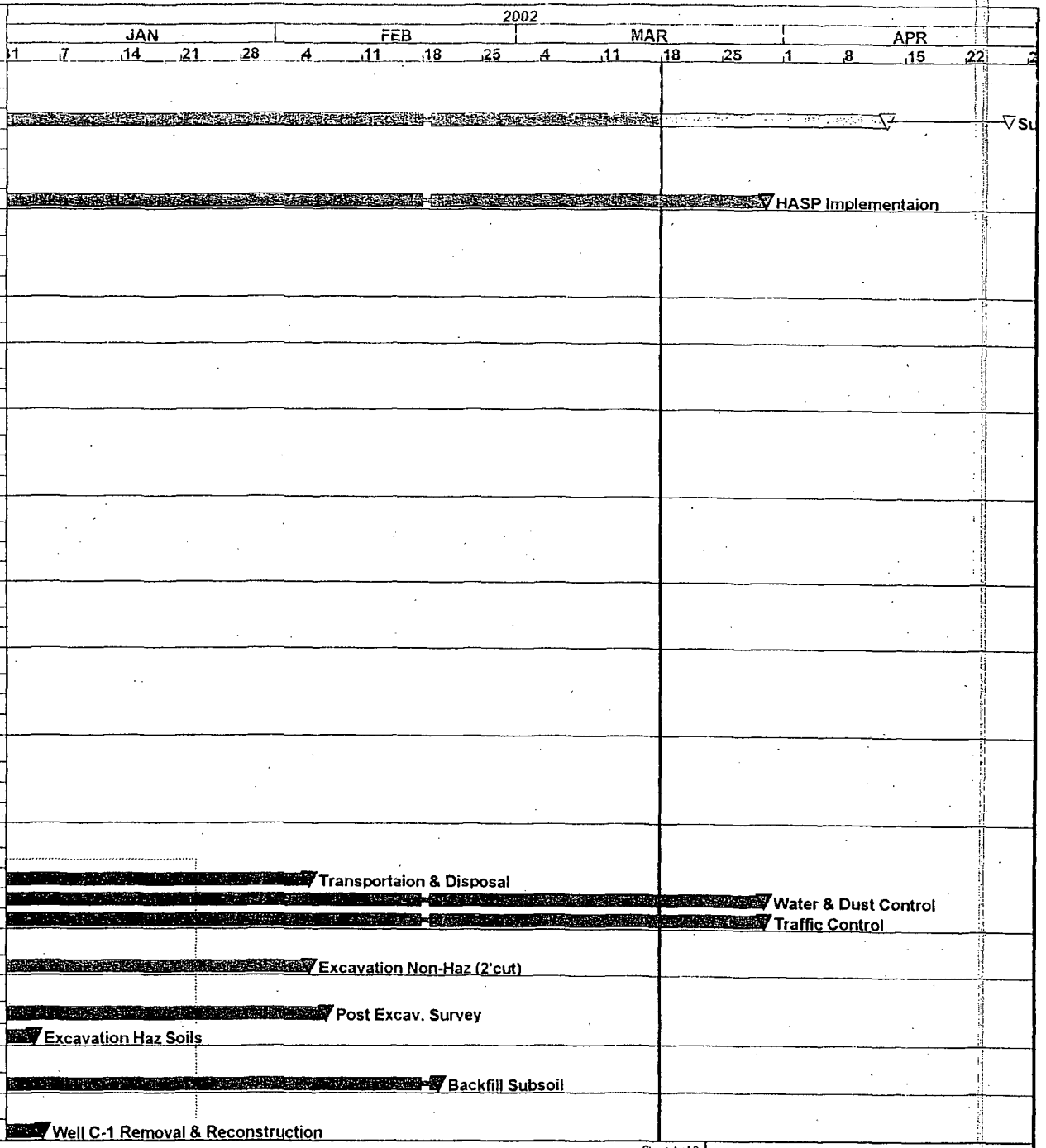
Chemsol Inc. Superfund Site
Remedial Work Element I, Soils
Construction Punchlist

Date: 3/22/2002

#	Item	Spec. Section	Status	Scheduled	Completed
1	Pre-Final EPA Inspection	N/A	Outstanding	3/22/02	
2	Submittal of Post-Excavation Plan (Revised)	01300	In Progress	3/27/02 {t}	
3	Submittal of bills of ladings & manifests	02325	Completed	3/22/02	03/22/2002
4	Submittal of topsoil sieve analyses	02300	Completed	3/22/02	03/22/2002
5	Submittal of final topsoil analytical data (second sample)	02300	Completed	3/22/02	03/22/2002
6	Submittal of topsoil analysis fert. & lime appl. rates	02325	Completed	3/22/02	03/22/2002
7	Submittal of construction photographs (9/01-2/02)	01300	Completed	3/22/02	03/22/2002
	Submittal of construction photographs (3/02)	01300	In Progress	4/5/02 {t}	
8	T&D of lab packs and bulk drums	N/A	In Progress	3/28/02 {t}	
9	T&D of roll off containers	N/A	In Progress	3/28/02 {t}	
10	Seed (wetland mix) areas adjac. to access road (lot 1.01)	N/A	Outstanding	3/25/02 {t}	
11	Submittal of Site Restoration survey plan	01300	Outstanding	4/8/02 {t}	
12	Asphalt mix (Surface Course) submittal	02510	Completed	3/19/02	03/19/2002
13	Repair (seed & mulch) Arko property	N/A	Outstanding	3/25/02 {t}	
14	Remove construction fencing	N/A	Completed	3/19/02	3/19/02
15	Repair sides of decon pad	N/A	Outstanding	3/25/02 {t}	
16	Repair treatment bldg. overhead door frame	N/A	Completed	3/20/02	03/20/2002
17	Install gate Arko Property line	02821	Outstanding	3/25/02 {t}	
18	Install curb and paving on Arko property	02510	Outstanding	3/21/02 {t}	
19	Final EPA Inspection	N/A	Outstanding		
20	Remove temp. facilities & eqip.	N/A	In Progress	5/31/02 {t}	
21	Removal of soil erosion controls post estab. vegitation	N/A	Outstanding	5/31/02 {t}	
22	Copy of asphalt nuclear density test	02510	Completed	3/22/02	03/22/2002
23	Copy of QC results on hydrostatic testing of H.D.P.E.	01400	Outstanding	3/29/02 {t}	
24					
25					
26					
27					
28					
29					
30					

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
13AUG01				
5	Notice To Proceed	1	13AUG01A	13AUG01A
15	Submittals / Permits	60	13AUG01A	12APR02
25	Mobilization	10	13AUG01A	24AUG01A
35	Decon & Work Area Prep	5	13AUG01A	17AUG01A
45	Construction Facilities	10	13AUG01A	24AUG01A
55	HASP Implementaion	171	13AUG01A	29MAR02A
20AUG01				
345	Revise Analytical Table	17	20AUG01A	12SEP01A
95	Site Clearing	16	21AUG01A	12SEP01A
305	Limits of Dist. Survey	5	22AUG01A	28AUG01A
27AUG01				
325	Sample Tanker Sed./H2O	14	28AUG01A	14SEP01A
03SEP01				
85	Soil Erosion Control	7	04SEP01A	12SEP01A
355	ARKO Access & Plans	17	06SEP01A	28SEP01A
10SEP01				
145	Drum Charac. & Handling	30	10SEP01A	23OCT01A
315	Limits of Excav. Survey	3	12SEP01A	14SEP01A
135	Sample Existing Stockpile	10	13SEP01A	26SEP01A
17SEP01				
65	Pre Survey Grid	5	17SEP01A	21SEP01A
155	Tanker Decon & Disposal	4	17SEP01A	20SEP01A
365	Construct Arko Roadway	5	20SEP01A	18OCT01A
24SEP01				
115	Stream Crossing	1	24SEP01A	24SEP01A
75	Fencing & Gate Instal. RRROW	5	27SEP01A	03OCT01A
08OCT01				
125	Non-Haz Ex Under Road	2	08OCT01A	10OCT01A
395	Fence Instal. North Area	10	08OCT01A	18OCT01A
375	HDPE Effluent Line	3	11OCT01A	12OCT01A
15OCT01				
105	Haul Road Construction	3	15OCT01A	18OCT01A
385	Non-Haz Waste Approval	8	15OCT01A	24OCT01A
405	Install Scale	5	15OCT01A	19OCT01A
22OCT01				
195	Sediment Removal	5	25OCT01A	26OCT01A
205	Transportaion & Disposal	40	25OCT01A	04FEB02A
225	Water & Dust Control	63	25OCT01A	29MAR02A
295	Traffic Control	63	25OCT01A	29MAR02A
29OCT01				
185	Excavation Non-Haz (2'cut)	35	29OCT01A	04FEB02A
12NOV01				
275	Post Excav. Survey	35	12NOV01A	06FEB02A
175	Excavation Haz Soils	15	13NOV01A	03JAN02A
19NOV01				
215	Backfill Subsoil	40	19NOV01A	19FEB02A
24DEC01				
235	Well C-1 Removal &	8	26DEC01A	04JAN02A



Project Start	08AUG01	Early Bar
Project Finish	12APR02	Float Bar
Data Date	18MAR02	Progress Bar
Run Date	18MAR02	Critical Activity

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CHEM

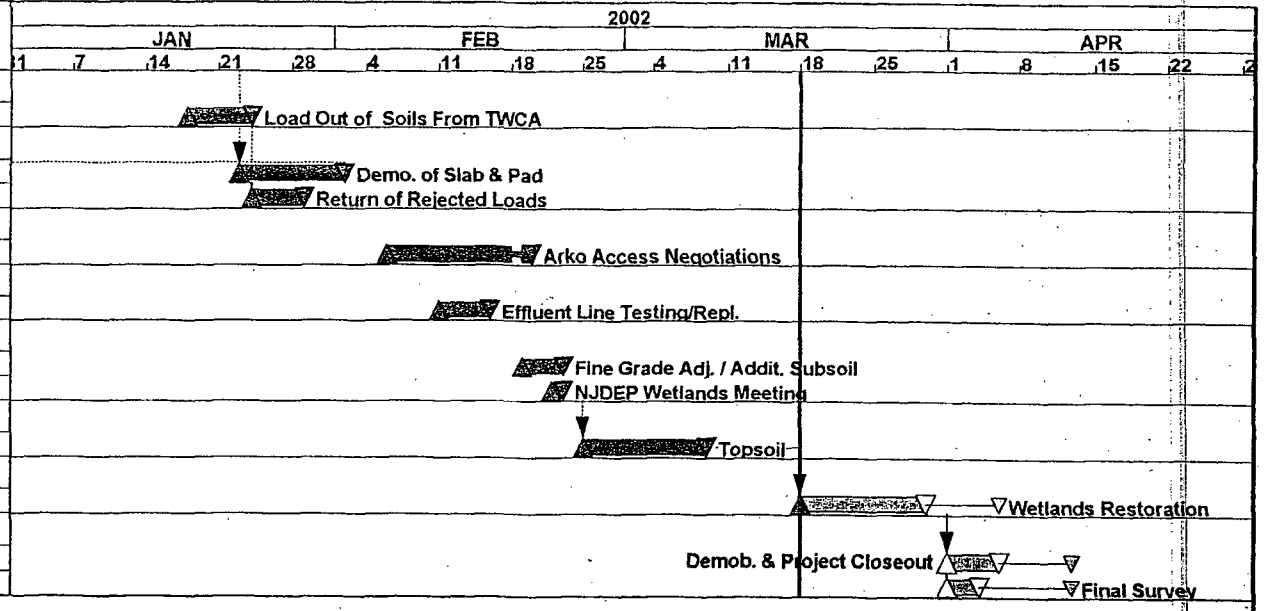
Sheet 1 of 2

Code Environmental Services, Inc.

Remdial Work, Chemsol Superfund Site

Classic Schedule Layout

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
14JAN02				
415	Load Out of Soils From TWCA	3	18JAN02A	23JAN02A
21JAN02				
165	Demo. of Slab & Pad	3	23JAN02A	01FEB02A
425	Return of Rejected Loads	2	24JAN02A	28JAN02A
04FEB02				
335	Arko Access Negotiations	8	06FEB02A	19FEB02A
11FEB02				
445	Effluent Line Testing/Repl.	5	11FEB02A	15FEB02A
18FEB02				
435	Fine Grade Adj. / Addit. Subsoil	4	19FEB02A	22FEB02A
455	NJDEP Wetlands Meeting	1	22FEB02A	22FEB02A
25FEB02				
245	Topsoil	10	25FEB02A	08MAR02A
18MAR02				
255	Wetlands Restoration	10	18MAR02A	29MAR02
01APR02				
265	Demob. & Project Closeout	5	01APR02	05APR02
285	Final Survey	3	01APR02	03APR02



Code Environmental Services, Inc.

"Complete Solutions to Your Environmental Concerns"

Weekly Progress Meeting
Sign In Sheet

Date: February 26th, 2002

Printed Name	Signature	Company
MARK GAMBUCCI	[illegible]	CODE ENVIRONMENTAL SERVICES
THOMAS TOMASSETTI	[illegible]	CODE
Bill Lee	[illegible]	de maximis
Steve Kessel	[illegible]	Brown & Caldwell
Mahesh R. Bilimoria	[illegible]	TAMS
Carla Oliveira	[illegible]	Brown & Caldwell
Jennifer Hesse	[illegible]	TAMS
Nigel Robinson	[illegible]	EPA
Cecilia R. Echols	[illegible]	EPA

APPENDIX H

CQA LABORATORY AND TEST RESULTS

SUBSOIL ANALYTICAL REPORTS

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 01/31/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01
DATE SAMPLED		NA	01/28/02
DATE RECEIVED		NA	01/29/02
DATE ANALYZED		01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 0.19
Alpha-BHC	0.17	< 0.17	< 0.19
Alpha-Chlordane	0.17	< 0.17	< 0.19
Beta-BHC	0.17	< 0.17	< 0.19
Chlordane	0.83	< 0.83	< 0.96
4,4'-DDD	0.33	< 0.33	< 0.38
4,4'-DDE	0.33	< 0.33	< 0.38
4,4'-DDT	0.33	< 0.33	< 0.38
Delta-BHC	0.17	< 0.17	< 0.19
Dieldrin	0.33	< 0.33	< 0.38
Endosulfan I	0.17	< 0.17	< 0.19
Endosulfan II	0.33	< 0.33	0.97 P
Endosulfan Sulfate	0.33	< 0.33	< 0.38
Endrin	0.33	< 0.33	< 0.38
Endrin Aldehyde	0.33	< 0.33	< 0.38
Endrin Ketone	0.33	< 0.33	< 0.38
Gamma-BHC	0.17	< 0.17	< 0.19
Gamma-Chlordane	0.17	< 0.17	< 0.19
Heptachlor	0.17	< 0.17	< 0.19
Heptachlor Epoxide	0.17	< 0.17	< 0.19
Methoxychlor	1.7	< 1.7	< 1.9
Toxaphene	33	< 33	< 38

.00097 ppm

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 01/31/02

ELAB SAMPLE NUMBER	PS1BLK0129	0201142-01*
DATE SAMPLED	NA	01/28/02
DATE RECEIVED	NA	01/29/02
DATE ANALYZED	01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION	M.BLANK	S-4 QA
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	8.3	< 8.3	< 9.6
PCB-1221	8.3	< 8.3	< 9.6
PCB-1232	8.3	< 8.3	< 9.6
PCB-1242	8.3	< 8.3	< 9.6
PCB-1248	8.3	< 8.3	< 9.6
PCB-1254	8.3	< 8.3	< 9.6
PCB-1260	8.3	< 8.3	< 9.6

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* = SOME ASPECT OF QUALITY CONTROL WAS NOT WITHIN LIMITS, RESULTS SHOULD BE CONSIDERED AS ESTIMATED. WE ARE INVESTIGATING THE CAUSE OF THIS PROBLEM AND WILL SUBMIT A REVISED REPORT AS SOON AS IT IS RESOLVED. WE DO NOT EXPECT ANY CHANGE IN THE RESULTS.

ELAB, Inc

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			V1BLK0130	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/31/02	02/01/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	5.0	50	8.4 J	47 JB
Benzene	1.0	10	< 1.0	< 1.2
Bromodichloromethane	1.0	10	< 1.0	< 1.2
Bromoform	1.0	10	< 1.0	< 1.2
Bromomethane	3.0	30	< 3.0	< 3.5
2-Butanone	10	100	< 10	< 12
Carbon disulfide	1.0	10	< 1.0	< 1.2
Carbon tetrachloride	1.0	10	< 1.0	< 1.2
Chlorobenzene	1.0	10	< 1.0	< 1.2
Chloroethane	2.0	20	< 2.0	< 2.3
Chloroform	1.0	10	< 1.0	< 1.2
Chloromethane	2.0	20	< 2.0	< 2.3
Dibromochloromethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethane	1.0	10	< 1.0	< 1.2
1,2-Dichloroethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethene	1.0	10	< 1.0	< 1.2
cis-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
trans-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
1,2-Dichloropropane	1.0	10	< 1.0	< 1.2
cis-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
trans-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
Ethylbenzene	1.0	10	< 1.0	< 1.2

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227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			V1BLK0130	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/31/02	02/01/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
2-Hexanone	2.0	20	< 2.0	< 2.3
Methylene chloride	1.0	10	5.0 J	31 B
4-Methyl-2-pentanone	2.0	20	< 2.0	< 2.3
Styrene	1.0	10	< 1.0	< 1.2
1,1,2,2-Tetrachloroethane	1.0	10	< 1.0	< 1.2
Tetrachloroethene	1.0	10	< 1.0	< 1.2
Toluene	1.0	10	< 1.0	11 J
1,1,1-Trichloroethane	1.0	10	< 1.0	< 1.2
1,1,2-Trichloroethane	1.0	10	< 1.0	< 1.2
Trichloroethene	1.0	10	< 1.0	< 1.2
Vinyl chloride	2.0	20	< 2.0	< 2.3
Xylene(total)	1.0	10	< 1.0	< 1.2

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ELAB, Inc.

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
Acenaphthene	67	670	< 67	< 78
Acenaphthylene	67	670	< 67	< 78
Anthracene	67	670	< 67	< 78
Benzo(a)anthracene	67	670	< 67	< 78
Benzo(b)fluoranthene	67	670	< 67	< 78
Benzo(k)fluoranthene	67	670	< 67	< 78
Benzo(g,h,i)perylene	67	670	< 67	< 78
Benzo(a)pyrene	67	670	< 67	< 78
bis(2-Chloroethoxy)methane	33	330	< 33	< 39
bis(2-Chloroethyl)ether	67	670	< 67	< 78
bis(2-Chloroisopropyl)ether	33	330	< 33	< 39
Bis(2-ethylhexyl)phthalate	430	4300	< 430	< 510
4-Bromophenyl-phenylether	67	670	< 67	< 78
Butylbenzylphthalate	67	670	< 67	< 78
4-Chloroaniline	33	330	< 33	< 39
Carbazole	67	670	< 67	< 78
2-Chloronaphthalene	67	670	< 67	< 78
4-Chlorophenyl-phenylether	67	670	< 67	< 78
Chrysene	33	330	< 33	< 39
Dibenz(a,h)anthracene	67	670	< 67	< 78
Dibenzofuran	67	670	< 67	< 78

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227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
1,3-Dichlorobenzene	67	670	< 67	< 78
1,4-Dichlorobenzene	67	670	< 67	< 78
3,3'-Dichlorobenzidine	170	1700	< 170	< 200
1,2-Dichlorobenzene	67	670	< 67	< 78
Diethylphthalate	33	330	< 33	< 39
Dimethylphthalate	67	670	< 67	< 78
Di-n-butylphthalate	67	670	< 67	< 78
2,4-Dinitrotoluene	67	670	< 67	< 78
2,6-Dinitrotoluene	33	330	< 33	< 39
Di-n-octylphthalate	67	670	< 67	< 78
Fluoranthene	67	670	< 67	< 78
Fluorene	33	330	< 33	< 39
Hexachlorobenzene	67	670	< 67	< 78
Hexachlorobutadiene	67	670	< 67	< 78
Hexachlorocyclopentadiene	33	330	< 33	< 39
Hexachloroethane	33	330	< 33	< 39
Indeno(1,2,3-cd)pyrene	67	670	< 67	< 78
Isophorone	67	670	< 67	< 78
2-Methylnaphthalene	67	670	< 67	< 78
Naphthalene	67	670	< 67	< 78
2-Nitroaniline	67	670	< 67	< 78

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
3-Nitroaniline	67	670	< 67	< 78
4-Nitroaniline	67	670	< 67	< 78
Nitrobenzene	33	330	< 33	< 39
N-Nitrosodiphenylamine	67	670	< 67	< 78
N-Nitroso-di-n-propylamine	67	670	< 67	< 78
Phenanthrene	67	670	< 67	< 78
Pyrene	67	670	< 67	< 78
1,2,4-Trichlorobenzene	67	670	< 67	< 78

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
ACID ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
4-Chloro-3-methylphenol	67	670	< 67	< 78
2-Chlorophenol	67	670	< 67	< 78
2,4-Dichlorophenol	67	670	< 67	< 78
2,4-Dimethylphenol	67	670	< 67	< 78
4,6-Dinitro-2-methylphenol	130	1300	< 130	< 160
2,4-Dinitrophenol	230	2300	< 230	< 270
2-Methylphenol	33	330	< 33	< 39
4-Methylphenol	67	670	< 67	< 78
2-Nitrophenol	33	330	< 33	< 39
4-Nitrophenol	67	670	< 67	< 78
Pentachlorophenol	170	1700	< 170	< 200
Phenol	33	330	< 33	< 39
2,4,5-Trichlorophenol	67	670	< 67	< 78
2,4,6-Trichlorophenol	67	670	< 67	< 78

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB, Inc.
Formerly Eckenfelder Laboratory

CLIENT: Chemsol #20541.021
DATE RECEIVED: 01/29/02
DATE REPORTED: 02/01/02

ELAB SAMPLE NUMBER				0201142-01	
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE				S-4 QA 1/28/2002 3:00:00 PM	
ANALYTES	REPORTING LIMITS	USEPA METHOD	UNITS	CONC	
Aluminum	12	6010B	mg/kg (Dry)	16000	
Antimony	2.4	6010B	mg/kg (Dry)	<2.4	N
Arsenic	1.2	6010B	mg/kg (Dry)	4.7	
Barium	1.2	6010B	mg/kg (Dry)	82	
Beryllium	1.2	6010B	mg/kg (Dry)	<1.2	
Cadmium	0.24	6010B	mg/kg (Dry)	<0.24	
Calcium	240	6010B	mg/kg (Dry)	3900	N
Chromium	1.2	6010B	mg/kg (Dry)	25	
Cobalt	1.2	6010B	mg/kg (Dry)	10	
Copper	1.2	6010B	mg/kg (Dry)	25	
Iron	12	6010B	mg/kg (Dry)	28000	
Lead	1.2	6010B	mg/kg (Dry)	13	
Magnesium	240	6010B	mg/kg (Dry)	5000	N
Manganese	1.2	6010B	mg/kg (Dry)	460	N*
Mercury	0.026	7471A	mg/kg (Dry)	0.027	
Nickel	1.2	6010B	mg/kg (Dry)	23	
Potassium	240	6010B	mg/kg (Dry)	2000	N
Selenium	1.2	6010B	mg/kg (Dry)	<1.2	
Silver	0.47	6010B	mg/kg (Dry)	<0.47	
Sodium	240	6010B	mg/kg (Dry)	<240	
Thallium	1.2	6010B	mg/kg (Dry)	<1.2	
Vanadium	1.2	6010B	mg/kg (Dry)	36	
Zinc	2.4	6010B	mg/kg (Dry)	52	
Cyanide	0.14	9012A	mg/kg (Dry)	<0.14	
% Solids	1.0	2540**	%	85	

See attached page for definition of terms and qualifiers.

ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 01/31/02
Date Revised: 02/06/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01
DATE SAMPLED		NA	01/28/02
DATE RECEIVED		NA	01/29/02
DATE ANALYZED		01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 0.19
Alpha-BHC	0.17	< 0.17	< 0.19
Alpha-Chlordane	0.17	< 0.17	< 0.19
Beta-BHC	0.17	< 0.17	< 0.19
Chlordane	0.83	< 0.83	< 0.96
4,4'-DDD	0.33	< 0.33	< 0.38
4,4'-DDE	0.33	< 0.33	< 0.38
4,4'-DDT	0.33	< 0.33	< 0.38
Delta-BHC	0.17	< 0.17	< 0.19
Dieldrin	0.33	< 0.33	< 0.38
Endosulfan I	0.17	< 0.17	< 0.19
Endosulfan II	0.33	< 0.33	0.97 P
Endosulfan Sulfate	0.33	< 0.33	< 0.38
Endrin	0.33	< 0.33	< 0.38
Endrin Aldehyde	0.33	< 0.33	< 0.38
Endrin Ketone	0.33	< 0.33	< 0.38
Gamma-BHC	0.17	< 0.17	< 0.19
Gamma-Chlordane	0.17	< 0.17	< 0.19
Heptachlor	0.17	< 0.17	< 0.19
Heptachlor Epoxide	0.17	< 0.17	< 0.19
Methoxychlor	1.7	< 1.7	< 1.9
Toxaphene	33	< 33	< 38

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 01/31/02
Date Revised: 02/06/02

ELAB SAMPLE NUMBER	PS1BLK0129	0201142-01
DATE SAMPLED	NA	01/28/02
DATE RECEIVED	NA	01/29/02
DATE ANALYZED	01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION	M.BLANK	S-4 QA
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	8.3	< 8.3	< 9.6
PCB-1221	8.3	< 8.3	< 9.6
PCB-1232	8.3	< 8.3	< 9.6
PCB-1242	8.3	< 8.3	< 9.6
PCB-1248	8.3	< 8.3	< 9.6
PCB-1254	8.3	< 8.3	< 9.6
PCB-1260	8.3	< 8.3	< 9.6

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

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SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 01/31/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01
DATE SAMPLED		NA	01/28/02
DATE RECEIVED		NA	01/29/02
DATE ANALYZED		01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 0.19
Alpha-BHC	0.17	< 0.17	< 0.19
Alpha-Chlordane	0.17	< 0.17	< 0.19
Beta-BHC	0.17	< 0.17	< 0.19
Chlordane	0.83	< 0.83	< 0.96
4,4'-DDD	0.33	< 0.33	< 0.38
4,4'-DDE	0.33	< 0.33	< 0.38
4,4'-DDT	0.33	< 0.33	< 0.38
Delta-BHC	0.17	< 0.17	< 0.19
Dieldrin	0.33	< 0.33	< 0.38
Endosulfan I	0.17	< 0.17	< 0.19
Endosulfan II	0.33	< 0.33	0.97 P
Endosulfan Sulfate	0.33	< 0.33	< 0.38
Endrin	0.33	< 0.33	< 0.38
Endrin Aldehyde	0.33	< 0.33	< 0.38
Endrin Ketone	0.33	< 0.33	< 0.38
Gamma-BHC	0.17	< 0.17	< 0.19
Gamma-Chlordane	0.17	< 0.17	< 0.19
Heptachlor	0.17	< 0.17	< 0.19
Heptachlor Epoxide	0.17	< 0.17	< 0.19
Methoxychlor	1.7	< 1.7	< 1.9
Toxaphene	33	< 33	< 38

.00097 ppm

Nb

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

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227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 01/31/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01*
DATE SAMPLED		NA	01/28/02
DATE RECEIVED		NA	01/29/02
DATE ANALYZED		01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	8.3	< 8.3	< 9.6
PCB-1221	8.3	< 8.3	< 9.6
PCB-1232	8.3	< 8.3	< 9.6
PCB-1242	8.3	< 8.3	< 9.6
PCB-1248	8.3	< 8.3	< 9.6
PCB-1254	8.3	< 8.3	< 9.6
PCB-1260	8.3	< 8.3	< 9.6

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ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

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* = SOME ASPECT OF QUALITY CONTROL WAS NOT WITHIN LIMITS, RESULTS SHOULD BE CONSIDERED AS ESTIMATED. WE ARE INVESTIGATING THE CAUSE OF THIS PROBLEM AND WILL SUBMIT A REVISED REPORT AS SOON AS IT IS RESOLVED. WE DO NOT EXPECT ANY CHANGE IN THE RESULTS.

ELAB, Inc

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			V1BLK0130	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/31/02	02/01/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	5.0	50	8.4 J	47 JB
Benzene	1.0	10	< 1.0	< 1.2
Bromodichloromethane	1.0	10	< 1.0	< 1.2
Bromoform	1.0	10	< 1.0	< 1.2
Bromomethane	3.0	30	< 3.0	< 3.5
2-Butanone	10	100	< 10	< 12
Carbon disulfide	1.0	10	< 1.0	< 1.2
Carbon tetrachloride	1.0	10	< 1.0	< 1.2
Chlorobenzene	1.0	10	< 1.0	< 1.2
Chloroethane	2.0	20	< 2.0	< 2.3
Chloroform	1.0	10	< 1.0	< 1.2
Chloromethane	2.0	20	< 2.0	< 2.3
Dibromochloromethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethane	1.0	10	< 1.0	< 1.2
1,2-Dichloroethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethene	1.0	10	< 1.0	< 1.2
cis-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
trans-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
1,2-Dichloropropane	1.0	10	< 1.0	< 1.2
cis-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
trans-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
Ethylbenzene	1.0	10	< 1.0	< 1.2

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SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			V1BLK0130	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/31/02	02/01/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
2-Hexanone	2.0	20	< 2.0	< 2.3
Methylene chloride	1.0	10	5.0 J	31 B
4-Methyl-2-pentanone	2.0	20	< 2.0	< 2.3
Styrene	1.0	10	< 1.0	< 1.2
1,1,2,2-Tetrachloroethane	1.0	10	< 1.0	< 1.2
Tetrachloroethene	1.0	10	< 1.0	< 1.2
Toluene	1.0	10	< 1.0	11 J
1,1,1-Trichloroethane	1.0	10	< 1.0	< 1.2
1,1,2-Trichloroethane	1.0	10	< 1.0	< 1.2
Trichloroethene	1.0	10	< 1.0	< 1.2
Vinyl chloride	2.0	20	< 2.0	< 2.3
Xylene(total)	1.0	10	< 1.0	< 1.2

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SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
Acenaphthene	67	670	< 67	< 78
Acenaphthylene	67	670	< 67	< 78
Anthracene	67	670	< 67	< 78
Benzo(a)anthracene	67	670	< 67	< 78
Benzo(b)fluoranthene	67	670	< 67	< 78
Benzo(k)fluoranthene	67	670	< 67	< 78
Benzo(g,h,i)perylene	67	670	< 67	< 78
Benzo(a)pyrene	67	670	< 67	< 78
bis(2-Chloroethoxy)methane	33	330	< 33	< 39
bis(2-Chloroethyl)ether	67	670	< 67	< 78
bis(2-Chloroisopropyl)ether	33	330	< 33	< 39
Bis(2-ethylhexyl)phthalate	430	4300	< 430	< 510
4-Bromophenyl-phenylether	67	670	< 67	< 78
Butylbenzylphthalate	67	670	< 67	< 78
4-Chloroaniline	33	330	< 33	< 39
Carbazole	67	670	< 67	< 78
2-Chloronaphthalene	67	670	< 67	< 78
4-Chlorophenyl-phenylether	67	670	< 67	< 78
Chrysene	33	330	< 33	< 39
Dibenz(a,h)anthracene	67	670	< 67	< 78
Dibenzofuran	67	670	< 67	< 78

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227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
1,3-Dichlorobenzene	67	670	< 67	< 78
1,4-Dichlorobenzene	67	670	< 67	< 78
3,3'-Dichlorobenzidine	170	1700	< 170	< 200
1,2-Dichlorobenzene	67	670	< 67	< 78
Diethylphthalate	33	330	< 33	< 39
Dimethylphthalate	67	670	< 67	< 78
Di-n-butylphthalate	67	670	< 67	< 78
2,4-Dinitrotoluene	67	670	< 67	< 78
2,6-Dinitrotoluene	33	330	< 33	< 39
Di-n-octylphthalate	67	670	< 67	< 78
Fluoranthene	67	670	< 67	< 78
Fluorene	33	330	< 33	< 39
Hexachlorobenzene	67	670	< 67	< 78
Hexachlorobutadiene	67	670	< 67	< 78
Hexachlorocyclopentadiene	33	330	< 33	< 39
Hexachloroethane	33	330	< 33	< 39
Indeno(1,2,3-cd)pyrene	67	670	< 67	< 78
Isophorone	67	670	< 67	< 78
2-Methylnaphthalene	67	670	< 67	< 78
Naphthalene	67	670	< 67	< 78
2-Nitroaniline	67	670	< 67	< 78

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
3-Nitroaniline	67	670	< 67	< 78
4-Nitroaniline	67	670	< 67	< 78
Nitrobenzene	33	330	< 33	< 39
N-Nitrosodiphenylamine	67	670	< 67	< 78
N-Nitroso-di-n-propylamine	67	670	< 67	< 78
Phenanthrene	67	670	< 67	< 78
Pyrene	67	670	< 67	< 78
1,2,4-Trichlorobenzene	67	670	< 67	< 78

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/01/02

ELAB SAMPLE NUMBER			SBLK0129B1	0201142-01
DATE SAMPLED			NA	01/28/02
DATE RECEIVED			NA	01/29/02
DATE ANALYZED			01/30/02	01/31/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	S-4 QA
ACID ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
4-Chloro-3-methylphenol	67	670	< 67	< 78
2-Chlorophenol	67	670	< 67	< 78
2,4-Dichlorophenol	67	670	< 67	< 78
2,4-Dimethylphenol	67	670	< 67	< 78
4,6-Dinitro-2-methylphenol	130	1300	< 130	< 160
2,4-Dinitrophenol	230	2300	< 230	< 270
2-Methylphenol	33	330	< 33	< 39
4-Methylphenol	67	670	< 67	< 78
2-Nitrophenol	33	330	< 33	< 39
4-Nitrophenol	67	670	< 67	< 78
Pentachlorophenol	170	1700	< 170	< 200
Phenol	33	330	< 33	< 39
2,4,5-Trichlorophenol	67	670	< 67	< 78
2,4,6-Trichlorophenol	67	670	< 67	< 78

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB, Inc.
Formerly Eckenfelder Laboratory

CLIENT: Chemsol #20541.021
DATE RECEIVED: 01/29/02
DATE REPORTED: 02/01/02

ELAB SAMPLE NUMBER				0201142-01	
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE				S-4 QA 1/28/2002 3:00:00 PM	
ANALYTES	REPORTING LIMITS	USEPA METHOD	UNITS	CONC	
Aluminum	12	6010B	mg/kg (Dry)	16000	
Antimony	2.4	6010B	mg/kg (Dry)	<2.4	N
Arsenic	1.2	6010B	mg/kg (Dry)	4.7	
Barium	1.2	6010B	mg/kg (Dry)	82	
Beryllium	1.2	6010B	mg/kg (Dry)	<1.2	
Cadmium	0.24	6010B	mg/kg (Dry)	<0.24	
Calcium	240	6010B	mg/kg (Dry)	3900	N
Chromium	1.2	6010B	mg/kg (Dry)	25	
Cobalt	1.2	6010B	mg/kg (Dry)	10	
Copper	1.2	6010B	mg/kg (Dry)	25	
Iron	12	6010B	mg/kg (Dry)	28000	
Lead	1.2	6010B	mg/kg (Dry)	13	
Magnesium	240	6010B	mg/kg (Dry)	5000	N
Manganese	1.2	6010B	mg/kg (Dry)	460	N*
Mercury	0.026	7471A	mg/kg (Dry)	0.027	
Nickel	1.2	6010B	mg/kg (Dry)	23	
Potassium	240	6010B	mg/kg (Dry)	2000	N
Selenium	1.2	6010B	mg/kg (Dry)	<1.2	
Silver	0.47	6010B	mg/kg (Dry)	<0.47	
Sodium	240	6010B	mg/kg (Dry)	<240	
Thallium	1.2	6010B	mg/kg (Dry)	<1.2	
Vanadium	1.2	6010B	mg/kg (Dry)	36	
Zinc	2.4	6010B	mg/kg (Dry)	52	
Cyanide	0.14	9012A	mg/kg (Dry)	<0.14	
% Solids	1.0	2540**	%	85	

See attached page for definition of terms and qualifiers.

ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 01/31/02
Date Revised: 02/06/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01	
DATE SAMPLED		NA	01/28/02	
DATE RECEIVED		NA	01/29/02	
DATE ANALYZED		01/30/02	01/30/02	
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA	
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC	
Aldrin	0.17	< 0.17	< 0.19	
Alpha-BHC	0.17	< 0.17	< 0.19	
Alpha-Chlordane	0.17	< 0.17	< 0.19	
Beta-BHC	0.17	< 0.17	< 0.19	
Chlordane	0.83	< 0.83	< 0.96	
4,4'-DDD	0.33	< 0.33	< 0.38	
4,4'-DDE	0.33	< 0.33	< 0.38	
4,4'-DDT	0.33	< 0.33	< 0.38	
Delta-BHC	0.17	< 0.17	< 0.19	
Dieldrin	0.33	< 0.33	< 0.38	
Endosulfan I	0.17	< 0.17	< 0.19	
Endosulfan II	0.33	< 0.33	0.97	P
Endosulfan Sulfate	0.33	< 0.33	< 0.38	
Endrin	0.33	< 0.33	< 0.38	
Endrin Aldehyde	0.33	< 0.33	< 0.38	
Endrin Ketone	0.33	< 0.33	< 0.38	
Gamma-BHC	0.17	< 0.17	< 0.19	
Gamma-Chlordane	0.17	< 0.17	< 0.19	
Heptachlor	0.17	< 0.17	< 0.19	
Heptachlor Epoxide	0.17	< 0.17	< 0.19	
Methoxychlor	1.7	< 1.7	< 1.9	
Toxaphene	33	< 33	< 38	

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 01/31/02
Date Revised: 02/06/02

ELAB SAMPLE NUMBER		PS1BLK0129	0201142-01
DATE SAMPLED		NA	01/28/02
DATE RECEIVED		NA	01/29/02
DATE ANALYZED		01/30/02	01/30/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	S-4 QA
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	8.3	< 8.3	< 9.6
PCB-1221	8.3	< 8.3	< 9.6
PCB-1232	8.3	< 8.3	< 9.6
PCB-1242	8.3	< 8.3	< 9.6
PCB-1248	8.3	< 8.3	< 9.6
PCB-1254	8.3	< 8.3	< 9.6
PCB-1260	8.3	< 8.3	< 9.6

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ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

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ELAB, Inc.

D. Rick Davis
Vice President

TOPSOIL ANALYTICAL REPORTS

ELAB, Inc.
Formerly Eckenfelder Laboratory

CLIENT: Chemsol #20541.021
DATE RECEIVED: 02/07/02
DATE REPORTED: 02/12/02

ELAB SAMPLE NUMBER				0202042-01	
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE				TS-QA 2/6/2002 5:30:00 PM	
ANALYTES	REPORTING LIMITS	USEPA METHOD	UNITS	CONC	
Aluminum	12	6010B	mg/kg (Dry)	18000	
Antimony	2.4	6010B	mg/kg (Dry)	<2.4	N
Arsenic	1.2	6010B	mg/kg (Dry)	7.5	
Barium	1.2	6010B	mg/kg (Dry)	93	
Beryllium	1.2	6010B	mg/kg (Dry)	<1.2	
Cadmium	0.24	6010B	mg/kg (Dry)	<0.24	
Calcium	240	6010B	mg/kg (Dry)	1500	N
Chromium	1.2	6010B	mg/kg (Dry)	39	
Cobalt	1.2	6010B	mg/kg (Dry)	14	
Copper	1.2	6010B	mg/kg (Dry)	30	
Iron	12	6010B	mg/kg (Dry)	32000	
Lead	1.2	6010B	mg/kg (Dry)	51	
Magnesium	240	6010B	mg/kg (Dry)	3600	
Manganese	1.2	6010B	mg/kg (Dry)	720	
Mercury	0.027	7471A	mg/kg (Dry)	0.093	
Nickel	1.2	6010B	mg/kg (Dry)	22	
Potassium	240	6010B	mg/kg (Dry)	1400	
Selenium	1.2	6010B	mg/kg (Dry)	<1.2	
Silver	0.24	6010B	mg/kg (Dry)	<0.24	
Sodium	240	6010B	mg/kg (Dry)	<240	N
Thallium	1.2	6010B	mg/kg (Dry)	<1.2	
Vanadium	1.2	6010B	mg/kg (Dry)	58	
Zinc	2.4	6010B	mg/kg (Dry)	93	
% Solids	1.0	2540**	%	84	
Cyanide	0.15	9012A	mg/kg (Dry)	0.20	

See attached page for definition of terms and qualifiers.

ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB of TENNESSEE, LLC
Formerly Environmental Laboratory

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			V1BLK0211	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/11/02	02/11/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	5.0	50	8.0 J	1700* BE
Benzene	1.0	10	< 1.0	< 1.2
Bromodichloromethane	1.0	10	< 1.0	< 1.2
Bromoform	1.0	10	< 1.0	< 1.2
Bromomethane	3.0	30	< 3.0	< 3.5
2-Butanone	10	100	< 10	< 12
Carbon disulfide	1.0	10	< 1.0	< 1.2
Carbon tetrachloride	1.0	10	< 1.0	< 1.2
Chlorobenzene	1.0	10	< 1.0	< 1.2
Chloroethane	2.0	20	< 2.0	< 2.3
Chloroform	1.0	10	< 1.0	< 1.2
Chloromethane	2.0	20	< 2.0	< 2.3
Dibromochloromethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethane	1.0	10	< 1.0	< 1.2
1,2-Dichloroethane	1.0	10	< 1.0	< 1.2
1,1-Dichloroethene	1.0	10	< 1.0	< 1.2
cis-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
trans-1,2-Dichloroethene	1.0	10	< 1.0	< 1.2
1,2-Dichloropropane	1.0	10	< 1.0	< 1.2
cis-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
trans-1,3-Dichloropropene	1.0	10	< 1.0	< 1.2
Ethylbenzene	1.0	10	< 1.0	< 1.2

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

* = POSSIBLE LABORATORY CONTRIBUTED CONTAMINATION, THE DATA USER SHOULD USE DISCRETION WHEN EVALUATING THE RESULTS FOR THIS COMPOUND.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			V1BLK0211	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/11/02	02/11/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
2-Hexanone	2.0	20	< 2.0	< 2.3
Methylene chloride	1.0	10	2.1 J	88 B
4-Methyl-2-pentanone	2.0	20	< 2.0	< 2.3
Styrene	1.0	10	< 1.0	< 1.2
1,1,2,2-Tetrachloroethane	1.0	10	< 1.0	< 1.2
Tetrachloroethene	1.0	10	< 1.0	< 1.2
Toluene	1.0	10	< 1.0	< 1.2
1,1,1-Trichloroethane	1.0	10	< 1.0	1.3 J
1,1,2-Trichloroethane	1.0	10	< 1.0	< 1.2
Trichloroethene	1.0	10	< 1.0	< 1.2
Vinyl chloride	2.0	20	< 2.0	< 2.3
Xylene(total)	1.0	10	< 1.0	< 1.2

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Extenalator Laboratory

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			SBLK0208B1	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
Acenaphthene	67	670	< 67	< 79
Acenaphthylene	67	670	< 67	< 79
Anthracene	67	670	< 67	300 J
Benzo(a)anthracene	67	670	< 67	580 J
Benzo(b)fluoranthene	67	670	< 67	440 J
Benzo(k)fluoranthene	67	670	< 67	470 J
Benzo(g,h,i)perylene	67	670	< 67	200 J
Benzo(a)pyrene	67	670	< 67	480 J
bis(2-Chloroethoxy)methane	33	330	< 33	< 40
bis(2-Chloroethyl)ether	67	670	< 67	< 79
bis(2-Chloroisopropyl)ether	33	330	< 33	< 40
Bis(2-ethylhexyl)phthalate	430	4300	< 430	< 510
4-Bromophenyl-phenylether	67	670	< 67	< 79
Butylbenzylphthalate	67	670	< 67	< 79
4-Chloroaniline	33	330	< 33	< 40
Carbazole	67	670	< 67	85 J
2-Chloronaphthalene	67	670	< 67	< 79
4-Chlorophenyl-phenylether	67	670	< 67	< 79
Chrysene	33	330	< 33	610
Dibenz(a,h)anthracene	67	670	< 67	92 J
Dibenzofuran	67	670	< 67	< 79

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			SBLK0208B1	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
1,3-Dichlorobenzene	67	670	< 67	< 79
1,4-Dichlorobenzene	67	670	< 67	< 79
3,3'-Dichlorobenzidine	170	1700	< 170	< 200
1,2-Dichlorobenzene	67	670	< 67	< 79
Diethylphthalate	33	330	< 33	< 40
Dimethylphthalate	67	670	< 67	< 79
Di-n-butylphthalate	67	670	< 67	< 79
2,4-Dinitrotoluene	67	670	< 67	< 79
2,6-Dinitrotoluene	33	330	< 33	< 40
Di-n-octylphthalate	67	670	< 67	< 79
Fluoranthene	67	670	< 67	1300
Fluorene	33	330	< 33	120 J
Hexachlorobenzene	67	670	< 67	< 79
Hexachlorobutadiene	67	670	< 67	< 79
Hexachlorocyclopentadiene	33	330	< 33	< 40
Hexachloroethane	33	330	< 33	< 40
Indeno(1,2,3-cd)pyrene	67	670	< 67	200 J
Isophorone	67	670	< 67	< 79
2-Methylnaphthalene	67	670	< 67	< 79
Naphthalene	67	670	< 67	< 79
2-Nitroaniline	67	670	< 67	< 79

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			SBLK0208B1	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
3-Nitroaniline	67	670	< 67	< 79
4-Nitroaniline	67	670	< 67	< 79
Nitrobenzene	33	330	< 33	< 40
N-Nitrosodiphenylamine	67	670	< 67	< 79
N-Nitroso-di-n-propylamine	67	670	< 67	< 79
Phenanthrene	67	670	< 67	1100
Pyrene	67	670	< 67	1300
1,2,4-Trichlorobenzene	67	670	< 67	< 79

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER			SBLK0208B1	0202042-01
DATE SAMPLED			NA	02/06/02
DATE RECEIVED			NA	02/07/02
DATE ANALYZED			02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	TS-QA
ACID ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	CONC
4-Chloro-3-methylphenol	67	670	< 67	< 79
2-Chlorophenol	67	670	< 67	< 79
2,4-Dichlorophenol	67	670	< 67	< 79
2,4-Dimethylphenol	67	670	< 67	< 79
4,6-Dinitro-2-methylphenol	130	1300	< 130	< 160
2,4-Dinitrophenol	230	2300	< 230	< 280
2-Methylphenol	33	330	< 33	< 40
4-Methylphenol	67	670	< 67	120 J
2-Nitrophenol	33	330	< 33	< 40
4-Nitrophenol	67	670	< 67	< 79
Pentachlorophenol	170	1700	< 170	< 200
Phenol	33	330	< 33	< 40
2,4,5-Trichlorophenol	67	670	< 67	< 79
2,4,6-Trichlorophenol	67	670	< 67	< 79

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ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER		PS1BLK0208	0202042-01
DATE SAMPLED		NA	02/06/02
DATE RECEIVED		NA	02/07/02
DATE ANALYZED		02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	TS-QA
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 0.20
Alpha-BHC	0.17	< 0.17	< 0.20
Alpha-Chlordane	0.17	< 0.17	1.7 P
Beta-BHC	0.17	< 0.17	< 0.20
Chlordane	0.83	< 0.83	< 0.98
4,4'-DDD	0.33	< 0.33	4.0 P
4,4'-DDE	0.33	< 0.33	5.4 P
4,4'-DDT	0.33	< 0.33	7.1 (1)P
Delta-BHC	0.17	< 0.17	< 0.20
Dieldrin	0.33	< 0.33	< 0.39
Endosulfan I	0.17	< 0.17	0.97 P
Endosulfan II	0.33	< 0.33	0.77 P
Endosulfan Sulfate	0.33	< 0.33	< 0.39
Endrin	0.33	< 0.33	< 0.39 *
Endrin Aldehyde	0.33	< 0.33	< 0.39 *
Endrin Ketone	0.33	< 0.33	25 EP
Gamma-BHC	0.17	< 0.17	< 0.20
Gamma-Chlordane	0.17	< 0.17	< 0.20
Heptachlor	0.17	< 0.17	< 0.20
Heptachlor Epoxide	0.17	< 0.17	< 0.20
Methoxychlor	1.7	< 1.7	12 (1)P
Toxaphene	33	< 33	< 39

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

* = SOME ASPECT OF QUALITY CONTROL WAS NOT WITHIN LIMITS. DETECTION OF THE ANALYTE COULD NOT BE GUARANTEED.

(1) = SOME ASPECT OF QUALITY CONTROL WAS NOT WITHIN LIMITS, RESULTS SHOULD BE CONSIDERED AS ESTIMATED.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 02/12/02

ELAB SAMPLE NUMBER		PS1BLK0208	0202042-01
DATE SAMPLED		NA	02/06/02
DATE RECEIVED		NA	02/07/02
DATE ANALYZED		02/12/02	02/12/02
CLIENT SAMPLE DESCRIPTION		M.BLANK	TS-QA
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	8.3	< 8.3	< 9.8
PCB-1221	8.3	< 8.3	< 9.8
PCB-1232	8.3	< 8.3	< 9.8
PCB-1242	8.3	< 8.3	< 9.8
PCB-1248	8.3	< 8.3	< 9.8
PCB-1254	8.3	< 8.3	< 9.8
PCB-1260	8.3	< 8.3	< 9.8

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

D. Rick Davis
Vice President

RECYCLED CONCRETE AGGREGATE

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 10/01/01

ELAB SAMPLE NUMBER		PS1BLK0910	0109038-01
DATE SAMPLED		NA	09/07/01
DATE RECEIVED		NA	09/08/01
DATE ANALYZED		09/12/01	09/12/01
CLIENT SAMPLE DESCRIPTION		M.BLANK	Recycled Concrete #1
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	0.0083	<0.0083	<0.0087
PCB-1221	0.0083	<0.0083	<0.0087
PCB-1232	0.0083	<0.0083	<0.0087
PCB-1242	0.0083	<0.0083	<0.0087
PCB-1248	0.0083	<0.0083	<0.0087
PCB-1254	0.0083	<0.0083	0.54
PCB-1260	0.0083	<0.0083	0.13

ALL COMPOUNDS EXPRESSED IN MILLIGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

Teresa Williams for

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB of TENNESSEE, LLC
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 09/20/01

ELAB SAMPLE NUMBER			V4BLK0912	0109038-03
DATE SAMPLED			NA	09/07/01
DATE RECEIVED			NA	09/08/01
DATE ANALYZED			09/12/01	09/12/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #3
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	5.0	50	< 5.0	< 4.5
Benzene	1.0	10	< 1.0	< 0.90
Bromodichloromethane	1.0	10	< 1.0	< 0.90
Bromoform	1.0	10	< 1.0	< 0.90
Bromomethane	2.0	20	< 2.0	< 1.8
2-Butanone	10	100	< 10	< 9.0
Carbon disulfide	1.0	10	< 1.0	< 0.90
Carbon tetrachloride	1.0	10	< 1.0	< 0.90
Chlorobenzene	1.0	10	< 1.0	< 0.90
Chloroethane	2.0	20	< 2.0	< 1.8
Chloroform	1.0	10	< 1.0	< 0.90
Chloromethane	2.0	20	< 2.0	< 1.8
Dibromochloromethane	1.0	10	< 1.0	< 0.90
1,1-Dichloroethane	1.0	10	< 1.0	< 0.90
1,2-Dichloroethane	1.0	10	< 1.0	< 0.90
1,1-Dichloroethene	1.0	10	< 1.0	< 0.90
cis-1,2-Dichloroethene	1.0	10	< 1.0	< 0.90
trans-1,2-Dichloroethene	1.0	10	< 1.0	< 0.90
1,2-Dichloropropane	1.0	10	< 1.0	< 0.90
cis-1,3-Dichloropropene	1.0	10	< 1.0	< 0.90
trans-1,3-Dichloropropene	1.0	10	< 1.0	< 0.90
Ethylbenzene	1.0	10	< 1.0	< 0.90

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 09/20/01

ELAB SAMPLE NUMBER				V4BLK0912	0109038-03
DATE SAMPLED				NA	09/07/01
DATE RECEIVED				NA	09/08/01
DATE ANALYZED				09/12/01	09/12/01
CLIENT SAMPLE DESCRIPTION				M.BLANK	Recycled Concrete #3
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL		CONC	CONC
2-Hexanone	2.0	20		< 2.0	< 1.8
Methylene chloride	3.0	30		< 3.0	< 2.7
4-Methyl-2-pentanone	2.0	20		< 2.0	< 1.8
Styrene	1.0	10		< 1.0	< 0.90
1,1,2,2-Tetrachloroethane	1.0	10		< 1.0	< 0.90
Tetrachloroethene	1.0	10		< 1.0	< 0.90
Toluene	1.0	10		< 1.0	6.6 J
1,1,1-Trichloroethane	1.0	10		< 1.0	< 0.90
1,1,2-Trichloroethane	1.0	10		< 1.0	< 0.90
Trichloroethene	1.0	10		< 1.0	< 0.90
Vinyl chloride	2.0	20		< 2.0	< 1.8
Xylene(total)	1.0	10		< 1.0	< 0.90

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

ELAB, Inc.

Teresa Williams for

D. Rick Davis
Vice President

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 10/17/01

ELAB SAMPLE NUMBER		PS1BLK0910	0109038-01
DATE SAMPLED		NA	09/07/01
DATE RECEIVED		NA	09/08/01
DATE ANALYZED		10/16/01	10/16/01
CLIENT SAMPLE DESCRIPTION		M.BLANK	Recycled Concrete #1
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 0.17
Alpha-BHC	0.17	< 0.17	< 0.17
Alpha-Chlordane	0.17	< 0.17	< 10 (1)
Beta-BHC	0.17	< 0.17	< 0.17
4,4'-DDD	0.33	< 0.33	< 0.35
4,4'-DDE	0.33	< 0.33	< 20 (1)
4,4'-DDT	0.33	< 0.33	< 0.35
Delta-BHC	0.17	< 0.17	< 0.17
Dieldrin	0.33	< 0.33	< 0.35
Endosulfan I	0.17	< 0.17	< 0.17
Endosulfan II	0.33	< 0.33	< 0.35
Endosulfan Sulfate	0.33	< 0.33	< 0.35
Endrin	0.33	< 0.33	< 0.35 *
Endrin Aldehyde	0.33	< 0.33	< 0.35
Endrin Ketone	0.33	< 0.33	< 0.35
Gamma-BHC	0.17	< 0.17	< 0.17
Gamma-Chlordane	0.17	< 0.17	< 25 (1)
Heptachlor	0.17	< 0.17	< 0.17
Heptachlor Epoxide	0.17	< 0.17	< 0.17
Methoxychlor	1.7	< 1.7	< 1.7
Toxaphene	33	< 33	< 35

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM DRY UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

(1) = DUE TO THE PRESENCE OF PCB THE DETECTION LIMIT WAS INCREASED.

* = SOME ASPECT OF QUALITY CONTROL WAS NOT WITHIN LIMITS, RESULTS SHOULD BE CONSIDERED AS ESTIMATED.

ELAB, Inc.

Teresa Williams for

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 10/02/01

ELAB SAMPLE NUMBER			SBLK0910BS1	0109038-01D
DATE SAMPLED			NA	09/07/01
DATE RECEIVED			NA	09/08/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #1
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
Acenaphthene	100	1000	< 100	< 350 D
Acenaphthylene	100	1000	< 100	< 350 D
Anthracene	100	1000	< 100	< 350 D
Benzo(a)anthracene	100	1000	< 100	790 JD
Benzo(b)fluoranthene	100	1000	< 100	610 JD
Benzo(k)fluoranthene	100	1000	< 100	570 JD
Benzo(g,h,i)perylene	100	1000	< 100	< 350 D
Benzo(a)pyrene	100	1000	< 100	620 JD
bis(2-Chloroethoxy)methane	50	500	< 50	< 170 D
bis(2-Chloroethyl)ether	100	1000	< 100	< 350 D
bis(2-Chloroisopropyl)ether	50	500	< 50	< 170 D
Bis(2-ethylhexyl)phthalate	650	6500	< 650	< 2300 D
4-Bromophenyl-phenylether	100	1000	< 100	< 350 D
Butylbenzylphthalate	100	1000	< 100	< 350 D
4-Chloroaniline	50	500	< 50	< 170 D
Carbazole	100	1000	< 100	< 350 D
2-Chloronaphthalene	100	1000	< 100	< 350 D
4-Chlorophenyl-phenylether	100	1000	< 100	< 350 D
Chrysene	50	500	< 50	810 JD
Dibenz(a,h)anthracene	100	1000	< 100	< 350 D
Dibenzofuran	100	1000	< 100	< 350 D

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DETECTION LIMITS HAVE BEEN INCREASED BY THE SAME FACTOR.

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/02/01

ELAB SAMPLE NUMBER			SBLK0910BS1	0109038-01D
DATE SAMPLED			NA	09/07/01
DATE RECEIVED			NA	09/08/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #1
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
1,3-Dichlorobenzene	100	1000	< 100	< 350 D
1,4-Dichlorobenzene	100	1000	< 100	< 350 D
3,3'-Dichlorobenzidine	250	2500	< 250	< 870 D
1,2-Dichlorobenzene	100	1000	< 100	< 350 D
Diethylphthalate	50	500	< 50	< 170 D
Dimethylphthalate	100	1000	< 100	< 350 D
Di-n-butylphthalate	100	1000	< 100	460 JD
2,4-Dinitrotoluene	100	1000	< 100	< 350 D
2,6-Dinitrotoluene	50	500	< 50	< 170 D
Di-n-octylphthalate	100	1000	< 100	< 350 D
Fluoranthene	100	1000	< 100	1500 JD
Fluorene	50	500	< 50	< 170 D
Hexachlorobenzene	100	1000	< 100	< 350 D
Hexachlorobutadiene	100	1000	< 100	< 350 D
Hexachlorocyclopentadiene	50	500	< 50	< 170 D
Hexachloroethane	50	500	< 50	< 170 D
Indeno(1,2,3-cd)pyrene	100	1000	< 100	< 350 D
Isophorone	100	1000	< 100	< 350 D
2-Methylnaphthalene	100	1000	< 100	< 350 D
Naphthalene	100	1000	< 100	< 350 D
2-Nitroaniline	100	1000	< 100	< 350 D

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/02/01

ELAB SAMPLE NUMBER			SBLK0910BS1	0109038-01D
DATE SAMPLED			NA	09/07/01
DATE RECEIVED			NA	09/08/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #1
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
3-Nitroaniline	100	1000	< 100	< 350 D
4-Nitroaniline	100	1000	< 100	< 350 D
Nitrobenzene	50	500	< 50	< 170 D
N-Nitrosodiphenylamine	100	1000	< 100	< 350 D
N-Nitroso-di-n-propylamine	100	1000	< 100	< 350 D
Phenanthrene	100	1000	< 100	1200 JD
Pyrene	100	1000	< 100	1300 JD
1,2,4-Trichlorobenzene	100	1000	< 100	< 350 D

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/02/01

ELAB SAMPLE NUMBER			SBLK0910BS1	0109038-01D
DATE SAMPLED			NA	09/07/01
DATE RECEIVED			NA	09/08/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #1
ACID ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
4-Chloro-3-methylphenol	100	1000	< 100	< 350 D
2-Chlorophenol	100	1000	< 100	< 350 D
2,4-Dichlorophenol	100	1000	< 100	< 350 D
2,4-Dimethylphenol	100	1000	< 100	< 350 D
4,6-Dinitro-2-methylphenol	200	2000	< 200	< 700 D
2,4-Dinitrophenol	350	3500	< 350	< 1200 D
2-Methylphenol	50	500	< 50	< 170 D
4-Methylphenol	100	1000	< 100	< 350 D
2-Nitrophenol	50	500	< 50	< 170 D
4-Nitrophenol	100	1000	< 100	< 350 D
Pentachlorophenol	250	2500	< 250	< 870 D
Phenol	50	500	< 50	< 170 D
2,4,5-Trichlorophenol	100	1000	< 100	< 350 D
2,4,6-Trichlorophenol	100	1000	< 100	< 350 D

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ELAB, Inc.

Teresa Williams for

D. Rick Davis
Vice President

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 10/01/01

ELAB SAMPLE NUMBER			SBLK0924BS1	0109110-01D
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/27/01	09/28/01
CLIENT SAMPLE DESCRIPTION			M.BLANK *	Recycled Concrete #2
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
Acenaphthene	100	1000	< 100	< 360 D
Acenaphthylene	100	1000	< 100	< 360 D
Anthracene	100	1000	< 100	< 360 D
Benzo(a)anthracene	100	1000	< 100	700 JD
Benzo(b)fluoranthene	100	1000	< 100	740 JD
Benzo(k)fluoranthene	100	1000	< 100	680 JD
Benzo(g,h,i)perylene	100	1000	< 100	< 360 D
Benzo(a)pyrene	100	1000	< 100	680 JD
bis(2-Chloroethoxy)methane	50	500	< 50	< 180 D
bis(2-Chloroethyl)ether	100	1000	< 100	< 360 D
bis(2-Chloroisopropyl)ether	50	500	< 50	< 180 D
Bis(2-ethylhexyl)phthalate	650	6500	< 650	< 2300 D
4-Bromophenyl-phenylether	100	1000	< 100	< 360 D
Butylbenzylphthalate	100	1000	< 100	< 360 D
4-Chloroaniline	50	500	< 50	< 180 D
Carbazole	100	1000	< 100	< 360 D
2-Chloronaphthalene	100	1000	< 100	< 360 D
4-Chlorophenyl-phenylether	100	1000	< 100	< 360 D
Chrysene	50	500	< 50	850 JD
Dibenz(a,h)anthracene	100	1000	< 100	< 360 D
Dibenzofuran	100	1000	< 100	< 360 D

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RESULTS SHOULD BE CONSIDERED AS ESTIMATED.

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/01/01

ELAB SAMPLE NUMBER			SBLK0924BS1	0109110-01D
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/27/01	09/28/01
CLIENT SAMPLE DESCRIPTION			M.BLANK *	Recycled Concrete #2
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
1,3-Dichlorobenzene	100	1000	< 100	< 360 D
1,4-Dichlorobenzene	100	1000	< 100	< 360 D
3,3'-Dichlorobenzidine	250	2500	< 250	< 900 D
1,2-Dichlorobenzene	100	1000	< 100	< 360 D
Diethylphthalate	50	500	< 50	< 180 D
Dimethylphthalate	100	1000	< 100	< 360 D
Di-n-butylphthalate	100	1000	< 100	< 360 D
2,4-Dinitrotoluene	100	1000	< 100	< 360 D
2,6-Dinitrotoluene	50	500	< 50	< 180 D
Di-n-octylphthalate	100	1000	< 100	< 360 D
Fluoranthene	100	1000	< 100	1300 JD
Fluorene	50	500	< 50	< 180 D
Hexachlorobenzene	100	1000	< 100	< 360 D
Hexachlorobutadiene	100	1000	< 100	< 360 D
Hexachlorocyclopentadiene	50	500	< 50	< 180 D
Hexachloroethane	50	500	< 50	< 180 D
Indeno(1,2,3-cd)pyrene	100	1000	< 100	< 360 D
Isophorone	100	1000	< 100	< 360 D
2-Methylnaphthalene	100	1000	< 100	< 360 D
Naphthalene	100	1000	< 100	< 360 D
2-Nitroaniline	100	1000	< 100	< 360 D

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/01/01

ELAB SAMPLE NUMBER			SBLK0924BS1	0109110-01D
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/27/01	09/28/01
CLIENT SAMPLE DESCRIPTION			M.BLANK *	Recycled Concrete #2
BASE NEUTRAL ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
3-Nitroaniline	100	1000	< 100	< 360 D
4-Nitroaniline	100	1000	< 100	< 360 D
Nitrobenzene	50	500	< 50	< 180 D
N-Nitrosodiphenylamine	100	1000	< 100	< 360 D
N-Nitroso-di-n-propylamine	100	1000	< 100	< 360 D
Phenanthrene	100	1000	< 100	610 JD
Pyrene	100	1000	< 100	1300 JD
1,2,4-Trichlorobenzene	100	1000	< 100	< 360 D

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ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 10/01/01

ELAB SAMPLE NUMBER			SBLK0924BS1	0109110-01D
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/27/01	09/28/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #2
ACID ORGANICS BY USEPA METHOD 8270	MDL	EQL	CONC	5.0 X(1) CONC
4-Chloro-3-methylphenol	100	1000	< 100	< 360 D
2-Chlorophenol	100	1000	< 100	< 360 D
2,4-Dichlorophenol	100	1000	< 100	< 360 D
2,4-Dimethylphenol	100	1000	< 100	< 360 D
4,6-Dinitro-2-methylphenol	200	2000	< 200	< 720 D
2,4-Dinitrophenol	350	3500	< 350	< 1200 D
2-Methylphenol	50	500	< 50	< 180 D
4-Methylphenol	100	1000	< 100	< 360 D
2-Nitrophenol	50	500	< 50	< 180 D
4-Nitrophenol	100	1000	< 100	< 360 D
Pentachlorophenol	250	2500	< 250	< 900 D
Phenol	50	500	< 50	< 180 D
2,4,5-Trichlorophenol	100	1000	< 100	< 360 D
2,4,6-Trichlorophenol	100	1000	< 100	< 360 D

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ELAB, Inc.

D. Rick Davis
Vice President

ELAB, Inc.
Formerly Eckenfelder Laboratory

CLIENT: Chemsol #20541.021
DATE RECEIVED: 09/20/01
DATE REPORTED: 10/03/01

ELAB SAMPLE NUMBER				0109110-01
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE				Recycled Concrete #2 9/19/2001 11:50:00 AM
ANALYTES	REPORTING LIMITS	USEPA METHOD	UNITS	CONC
Aluminum	11	6010B	mg/kg (Dry)	9700
Antimony	2.2	6010B	mg/kg (Dry)	<2.2
Arsenic	1.1	6010B	mg/kg (Dry)	3.5
Barium	1.1	6010B	mg/kg (Dry)	53
Beryllium	1.1	6010B	mg/kg (Dry)	<1.1
Cadmium	0.22	6010B	mg/kg (Dry)	<0.22
Calcium	220	6010B	mg/kg (Dry)	70000
Chromium	1.1	6010B	mg/kg (Dry)	24
Cobalt	1.1	6010B	mg/kg (Dry)	4.9
Copper	1.1	6010B	mg/kg (Dry)	30
Iron	11	6010B	mg/kg (Dry)	12000
Lead	1.1	6010B	mg/kg (Dry)	40
Magnesium	220	6010B	mg/kg (Dry)	6500
Manganese	1.1	6010B	mg/kg (Dry)	230
Mercury	0.029	7471A	mg/kg (Dry)	0.070 *
Nickel	1.1	6010B	mg/kg (Dry)	12
Potassium	220	6010B	mg/kg (Dry)	1200
Selenium	1.1	6010B	mg/kg (Dry)	<1.1
Silver	0.22	6010B	mg/kg (Dry)	<0.22
Sodium	220	6010B	mg/kg (Dry)	540
Thallium	1.1	6010B	mg/kg (Dry)	<1.1
Vanadium	1.1	6010B	mg/kg (Dry)	23
Zinc	2.2	6010B	mg/kg (Dry)	58
% Solids	1.0	2540**	%	93
Cyanide	0.13	9012A	mg/kg (Dry)	<0.13 N*

See attached page for definition of terms and qualifiers.

ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 10/17/01

ELAB SAMPLE NUMBER		PS1BLK0921	0109110-01
DATE SAMPLED		NA	09/19/01
DATE RECEIVED		NA	09/20/01
DATE ANALYZED		10/16/01	10/16/01
CLIENT SAMPLE DESCRIPTION		M.BLANK	Recycled Concrete #2
PESTICIDE ORGANICS BY USEPA METHOD 8081	DL	CONC	CONC
Aldrin	0.17	< 0.17	< 10 (1)
Alpha-BHC	0.17	< 0.17	< 0.18
Alpha-Chlordane	0.17	< 0.17	< 25 (1)
Beta-BHC	0.17	< 0.17	< 0.18
4,4'-DDD	0.33	< 0.33	< 10 (1)
4,4'-DDE	0.33	< 0.33	< 10 (1)
4,4'-DDT	0.33	< 0.33	< 35 (1)
Delta-BHC	0.17	< 0.17	< 0.18
Dieldrin	0.33	< 0.33	< 30 (1)
Endosulfan I	0.17	< 0.17	< 0.18
Endosulfan II	0.33	< 0.33	< 0.36
Endosulfan Sulfate	0.33	< 0.33	< 0.36
Endrin	0.33	< 0.33	< 15 (1)
Endrin Aldehyde	0.33	< 0.33	< 5.0 (1)
Endrin Ketone	0.33	< 0.33	< 0.36
Gamma-BHC	0.17	< 0.17	< 0.18
Gamma-Chlordane	0.17	< 0.17	< 25 (1)
Heptachlor	0.17	< 0.17	< 15 (1)
Heptachlor Epoxide	0.17	< 0.17	< 0.18
Methoxychlor	1.7	< 1.7	< 1.8
Toxaphene	33	< 33	< 36

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ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, INC.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 09/27/01

ELAB SAMPLE NUMBER			V1BLK0921	0109110-01
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #2 *
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	5.0	50	< 5.0	140
Benzene	1.0	10	< 1.0	< 0.95
Bromodichloromethane	1.0	10	< 1.0	< 0.95
Bromoform	1.0	10	< 1.0	< 0.95
Bromomethane	2.0	20	< 2.0	< 1.9
2-Butanone	10	100	< 10	< 9.5
Carbon disulfide	1.0	10	< 1.0	< 0.95
Carbon tetrachloride	1.0	10	< 1.0	< 0.95
Chlorobenzene	1.0	10	< 1.0	< 0.95
Chloroethane	2.0	20	< 2.0	< 1.9
Chloroform	1.0	10	< 1.0	< 0.95
Chloromethane	2.0	20	< 2.0	< 1.9
Dibromochloromethane	1.0	10	< 1.0	< 0.95
1,1-Dichloroethane	1.0	10	< 1.0	< 0.95
1,2-Dichloroethane	1.0	10	< 1.0	< 0.95
1,1-Dichloroethene	1.0	10	< 1.0	< 0.95
cis-1,2-Dichloroethene	1.0	10	< 1.0	< 0.95
trans-1,2-Dichloroethene	1.0	10	< 1.0	< 0.95
1,2-Dichloropropane	1.0	10	< 1.0	< 0.95
cis-1,3-Dichloropropene	1.0	10	< 1.0	< 0.95
trans-1,3-Dichloropropene	1.0	10	< 1.0	< 0.95
Ethylbenzene	1.0	10	< 1.0	< 0.95

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227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc. of Tennessee

Client: Chemsol #20541.021
Date Reported: 09/27/01

ELAB SAMPLE NUMBER			V1BLK0921	0109110-01
DATE SAMPLED			NA	09/19/01
DATE RECEIVED			NA	09/20/01
DATE ANALYZED			09/21/01	09/21/01
CLIENT SAMPLE DESCRIPTION			M.BLANK	Recycled Concrete #2 *
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
2-Hexanone	2.0	20	5.4 J	< 1.9
Methylene chloride	3.0	30	< 3.0	5.2 J
4-Methyl-2-pentanone	2.0	20	3.6 J	< 1.9
Styrene	1.0	10	< 1.0	< 0.95
1,1,2,2-Tetrachloroethane	1.0	10	< 1.0	< 0.95
Tetrachloroethene	1.0	10	< 1.0	< 0.95
Toluene	1.0	10	2.6 J	< 0.95
1,1,1-Trichloroethane	1.0	10	< 1.0	< 0.95
1,1,2-Trichloroethane	1.0	10	< 1.0	< 0.95
Trichloroethene	1.0	10	< 1.0	< 0.95
Vinyl chloride	2.0	20	< 2.0	< 1.9
Xylene(total)	1.0	10	< 1.0	< 0.95

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ELAB, Inc.

D. Rick Davis
Vice President

ELAB, Inc.
Formerly Eckenfelder Laboratory

Client: Chemsol #20541.021
Date Reported: 09/25/01

ELAB SAMPLE NUMBER		PS1BLK0921	0109110-01
DATE SAMPLED		NA	09/19/01
DATE RECEIVED		NA	09/20/01
DATE ANALYZED		09/24/01	09/24/01
CLIENT SAMPLE DESCRIPTION		M.BLANK	Recycled Concrete #2
PCB ORGANICS BY USEPA METHOD 8082	DL	CONC	CONC
PCB-1016	0.0083	<0.0083	<0.0083
PCB-1221	0.0083	<0.0083	<0.0083
PCB-1232	0.0083	<0.0083	<0.0083
PCB-1242	0.0083	<0.0083	<0.0083
PCB-1248	0.0083	<0.0083	0.037 (1)
PCB-1254	0.0083	<0.0083	0.071 (1)
PCB-1260	0.0083	<0.0083	0.032 (1)

ALL COMPOUNDS EXPRESSED IN MILLIGRAMS/KILOGRAM AS RECEIVED UNLESS OTHERWISE NOTED.

ALL NON-DETECT VALUES ARE REPORTED AS <DL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS.

(1)=THE AROCLOR PATTERN OF THE SAMPLE DID NOT COMPARE WELL WITH THE AROCLOR PATTERN OF THE STANDARDS. THE AROCLOR IN THE SAMPLE WAS IDENTIFIED AS THE AROCLOR IT MOST CLOSELY MATCHED.

ELAB, Inc.

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

ELAB, Inc.
Formerly Eckenfelder Laboratory

CLIENT: Chemsol Soil Sampling #20541.021
DATE RECEIVED: 09/08/01
DATE REPORTED: 09/20/01

ELAB SAMPLE NUMBER				0109038-02
CLIENT SAMPLE DESCRIPTION/SAMPLING DATE				Recycled Concrete #2 9/7/2001 3:13:00 PM
ANALYTES	REPORTING LIMITS	USEPA METHOD	UNITS	CONC
Aluminum	10	6010B	mg/kg (Dry)	4700
Antimony	2.1	6010B	mg/kg (Dry)	<2.1
Arsenic	1.0	6010B	mg/kg (Dry)	6.4
Barium	1.0	6010B	mg/kg (Dry)	66
Beryllium	1.0	6010B	mg/kg (Dry)	<1.0
Cadmium	0.21	6010B	mg/kg (Dry)	0.29
Calcium	210	6010B	mg/kg (Dry)	30000
Chromium	1.0	6010B	mg/kg (Dry)	12
Cobalt	1.0	6010B	mg/kg (Dry)	3.2
Copper	1.0	6010B	mg/kg (Dry)	57
Iron	10	6010B	mg/kg (Dry)	9400
Lead	1.0	6010B	mg/kg (Dry)	120
Magnesium	210	6010B	mg/kg (Dry)	4000
Manganese	1.0	6010B	mg/kg (Dry)	370
Mercury	0.052	7471A	mg/kg (Dry)	0.074
Nickel	1.0	6010B	mg/kg (Dry)	8.9
Potassium	210	6010B	mg/kg (Dry)	890
Selenium	1.0	6010B	mg/kg (Dry)	<1.0
Silver	0.21	6010B	mg/kg (Dry)	0.21
Sodium	210	6010B	mg/kg (Dry)	470
Thallium	1.0	6010B	mg/kg (Dry)	<1.0
Vanadium	1.0	6010B	mg/kg (Dry)	15
Zinc	2.1	6010B	mg/kg (Dry)	180
% Solids	1.0	2540**	%	96
Cyanide	0.11	9012A	mg/kg (Dry)	<0.11

See attached page for definition of terms and qualifiers.

ELAB, Inc.

Teresa Williams for

D. Rick Davis
Vice President

227 French Landing Drive Nashville, Tennessee 37228 615-345-1115 FAX 615-846-5426

STYRENE-LIKE MATERIAL ANALYTICAL RESULTS

Client: Chemsol #20541.021
Date Reported: 01/07/02 (s16.6H

ELAB SAMPLE NUMBER			V2MBLK0102	0112168-01
DATE SAMPLED			NA	12/20/01
DATE RECEIVED			NA	12/21/01
DATE ANALYZED			01/02/02	01/02/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	WP-1
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
Acetone	2500	25000	< 2500	< 2500
Benzene	500	5000	< 500	< 500
Bromodichloromethane	500	5000	< 500	< 500
Bromoform	500	5000	< 500	< 500
Bromomethane	1500	15000	< 1500	< 1500
2-Butanone	5000	50000	< 5000	< 5000
Carbon disulfide	500	5000	< 500	< 500
Carbon tetrachloride	500	5000	< 500	< 500
Chlorobenzene	500	5000	< 500	< 500
Chloroethane	1000	10000	< 1000	< 1000
Chloroform	500	5000	< 500	500 J
Chloromethane	1000	10000	< 1000	< 1000
Dibromochloromethane	500	5000	< 500	< 500
1,1-Dichloroethane	500	5000	< 500	< 500
1,2-Dichloroethane	500	5000	< 500	< 500
1,1-Dichloroethene	500	5000	< 500	< 500
cis-1,2-Dichloroethene	500	5000	< 500	< 500
trans-1,2-Dichloroethene	500	5000	< 500	< 500
1,2-Dichloropropane	500	5000	< 500	< 500
cis-1,3-Dichloropropene	500	5000	< 500	< 500
trans-1,3-Dichloropropene	500	5000	< 500	< 500
Ethylbenzene	500	5000	< 500	< 500

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM AS RECEIVED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS. (s10H

Client: Chemsol #20541.021
Date Reported: 01/07/02 (s16.6H

ELAB SAMPLE NUMBER			V2MBLK0102	0112168-01
DATE SAMPLED			NA	12/20/01
DATE RECEIVED			NA	12/21/01
DATE ANALYZED			01/02/02	01/02/02
CLIENT SAMPLE DESCRIPTION			M.BLANK	WP-1
VOLATILE ORGANICS BY USEPA METHOD 8260	MDL	EQL	CONC	CONC
2-Hexanone	1000	10000	< 1000	< 1000
Methylene chloride	500	5000	< 500	< 500
4-Methyl-2-pentanone	1000	10000	< 1000	< 1000
Styrene	500	5000	< 500	< 500
1,1,2,2-Tetrachloroethane	500	5000	< 500	< 500
Tetrachloroethene	500	5000	< 500	< 500
Toluene	500	5000	1100 J	1100 JB
1,1,1-Trichloroethane	500	5000	< 500	< 500
1,1,2-Trichloroethane	500	5000	< 500	< 500
Trichloroethene	500	5000	< 500	< 500
Vinyl chloride	1000	10000	< 1000	< 1000
Xylene(total)	500	5000	< 500	< 500

ALL COMPOUNDS EXPRESSED IN MICROGRAMS/KILOGRAM AS RECEIVED.

ALL NON-DETECT VALUES ARE REPORTED AS <MDL (MODIFIED TO REFLECT DILUTIONS/DRY WEIGHT/SAMPLE WEIGHT).

SEE ATTACHED PAGE FOR DEFINITIONS OF TERMS AND QUALIFIERS. (s10H

ELAB, Inc.

D. Rick Davis
Vice President

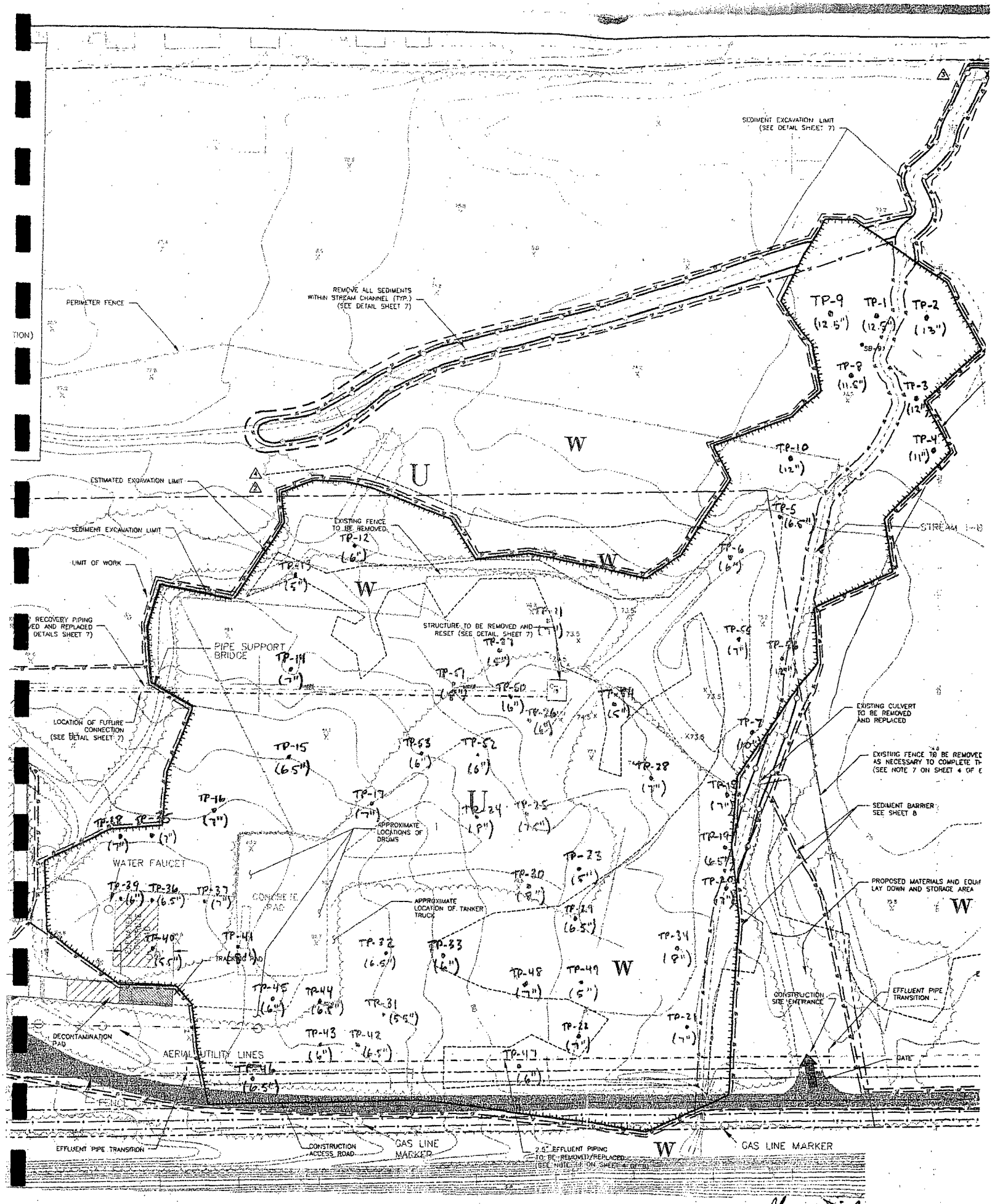
TOPSOIL TEST PITS

QA TEST PITS (THICKNESS OF TOPSOIL)
CHEMSOL SUPERFUND SITE
PISCATAWAY, NJ

Test Pit ID	Thickness of Topsoil (inches)	Approximate Location of Test Pit
TP-1	12.5	20' East of OW-15
TP-2	13	50' East of TP-1
TP-3	12	100' East of PZ-9D
TP-4	11	150' East of PZ-7
TP-5	6.5	20' East of TW-5A
TP-6	6	10' East of DMW-8
TP-7	10	10' West of PZ-8
TP-8	11.5	100' Southwest of OW-15
TP-9	12.5	50' West of TP-1
TP-10	12	50' North of TW-5
TP-11	7	100' North of OW-1
TP-12	6	50' East of DMW-6
TP-13	5	50' South of DMW-6
TP-14	7	100' South of TP-13
TP-15	6.5	100' South of TP-14
TP-16	7	50' East of OW-12
TP-17	7	150' East of TP-16
TP-18	7	5' South of PZ-3
TP-19	6.5	50' West of MW-102
TP-20	7	50' South of TP-19
TP-21	7	75' North of TW-7
TP-22	7	50' North of C-4
TP-23	5	10' North of C-5
TP-24	8	10' South of OW-2
TP-25	7.5	50' East of OW-2
TP-26	6	25' South of MW-101
TP-27	5	25' West of OW-1
TP-28	7	50' East of OW-4
TP-29	6.5	50' South of C-5
TP-30	8	50' West of C-5
TP-31	5.5	50' North of OMW-1
TP-32	6.5	75' North of TP-31
TP-33	6	75' East of TP-32
TP-34	8	150' North of TW-7
TP-35	7	20' South of OW-12
TP-36	6.5	100' South of OW-12
TP-37	7	50' East of TP-36
TP-38	7	30' West of TP-35

QA TEST PITS (THICKNESS OF TOPSOIL)
CHEMSOL SUPERFUND SITE
PISCATAWAY, NJ

Test Pit ID	Thickness of Topsoil (inches)	Approximate Location of Test Pit
TP-39	6	75' South of TP-38
TP-40	5.5	50' South of TP-36
TP-41	8	100' East of TP-40
TP-42	6.5	50' North of TW-8
TP-43	6	15' West of DMW-2
TP-44	6.5	50' North of TP-43
TP-45	6	50' West of TP-44
TP-46	6.5	100' West of TW-8
TP-47	6	75' West of C-4
TP-48	7	75' North of TP-47
TP-49	5	50' East of TP-48
TP-50	6	30' West of MW-101
TP-51	8	50' West of TP-50
TP-52	6	75' North of OW-2
TP-53	6	50' West of TP-52
TP-54	5	75' North of OW-4
TP-55	7	20' West of PZ-2D



GARY J. DIPIPPO, PROFESSIONAL ENGINEER
N.J. LICENSE NO. GE 26461

3-13-00
DATE

APPENDIX I

PERMITS AND APPROVALS

FRESHWATER WETLANDS GENERAL PERMIT EQUIVALENCIES # 4 and # 10 AND STREAM ENCROACHMENT PERMIT EQUIVALENT

ONALD T. DIFRANCESCO
Acting Governor

State of New Jersey
Department of Environmental Protection

RECEIVED
OCT - 1 2001
Permits

Robert C. Shinn, Jr.
Commissioner

September 27, 2001

Chemsol Inc.
C/O William J. Lee
186 Center Street, Suite 290
Clinton, NJ 08809

Attn: Mr. William J. Lee

Re: Stream Encroachment Permit Equivalency File No. 1217-93-0001.4
Freshwater Wetlands Permit Equivalency File No. 1217-93-0001.3
Chemsol Inc. Superfund Site, Lots 1.01 & 1.02 of Block 229.1,
Piscataway Township, Middlesex County, New Jersey

Dear Mr. Lee:

This is in reference to the above-mentioned project to excavate contaminated soils and sediments, and to remove an existing culvert on tributaries to Bound Brook, on a site located at the corners of Fleming and Hanover Streets, within Lots 1.01 and 1.02 Block 229.1, in Piscataway Township, Middlesex County. This permit also authorizes activity involving approximately 4.74 acres of wetlands, State open waters and top of bank area that will be temporarily impacted during remedial activities, and 0.14 of an acre of wetlands that will be permanently impacted during the construction of the access road. Total wetland disturbance (temporary & permanent) associated with the remedial clean up is 4.88 acres.

In addition, 0.020 of an acre of State open waters (0.016 acres & 0.004 acres) will be disturbed for the placement of two (2) culverts within stream 1-A in conjunction with the construction of an access road. These disturbances will not require mitigation.

The project complies with both the Flood Hazard Area Control Act Rules N.J.A.C.7:13-1.1 and freshwater Wetlands Permit Act Rules N.J.A.C.7:7A and therefore a Permit Equivalency is hereby issued with the following conditions:

1. An approved Remedial Action Work Plan (RAWP) must be submitted to the Department prior to construction.

2. Profiles of Stream 1-B and the Northern Ditch shall be surveyed and field verified to establish final restoration grades and elevations. Profiles and photos must be submitted to the Department prior to construction.

3. All contaminated materials must be disposed of in a lawful manner at a licensed disposal/recycling facility.

4. Riprap must be placed / shaped / imbedded into the channel in accordance with the culvert placement and existing stream bottom inverts / cross-sectional profile in order to allow for low flow passage through the entire work area.

5. In order to protect the warmwater fish within Pumpkin Patch Brook, any proposed grading or construction activities within the banks of this or any other stream on site are prohibited between 5/1 through 6/30 of each year. In addition, any activity within the 100 year flood plain or flood hazard area of this watercourse which could introduce sediment into said stream or could cause an increase in the natural level of turbidity is also prohibited during this period. The Department reserves the right to suspend all regulated activities on site should it be determined that the applicant has not taken proper precautions to ensure continuous compliance with this condition.

6. The applicant must mitigate for the loss of 4.88 acres (4.74 acres temporary/ 0.14 acres permanent) of State open waters, emergent, scrub/shrub and forested wetlands through an on-site restoration and creation project; 4.74 acres of restoration mitigation at a ratio of 1:1 and 0.28 of an acre of creation mitigation at a ratio of 2:1. The ratio of wetlands enhanced to wetlands disturbed shall be sufficient to replace loss of ecological value from the permitted project and shall be approved by the Program.

7. Restoration actions must be performed within six months of the commencement of the regulated activity in order to reverse or remedy the effects of the activity on the wetland and to restore the site to preactivity condition. If restoration actions are performed more than six months after the commencement of the regulated activity which disturbed the wetland, these actions will no longer be considered restoration, but will be considered creation, and will be governed by the provisions of N.J.S.A. 13:9B-1 et seq., and shall meet the standards of N.J.A.C. 7:7A.

8. The permittee shall complete and sign the Department approved conservation restriction for the mitigation site (copy attached). The restriction shall be included on the deed, and recorded in the office of the County Clerk (the Registrar of Deeds and Mortgages in some counties), in the county wherein the lands of the mitigation project are located, within 10 days of approval of the wetland mitigation proposal.

9. The permittee shall notify the Land Use Regulation Program, in writing, at least 14 days in advance of the start of construction of the wetland mitigation project for an on-site pre-construction meeting between the permittee, the contractor, the consultant and the Program.

10. The mitigation designer must be present during critical stages of construction of the mitigation project this includes but is not limited to herbicide applications, sub-grade inspection, final grade inspection, and planting inspection.

11. Immediately following final grading of the site, a disc must be run over the site to eliminate compaction. Mitigation designer must be present to oversee this phase of the

project and confirm with the Department this activity has occurred prior to planting of the site.

12. Immediately following the final grading of the mitigation site and prior to planting, the permittee shall notify the Program for a post-grading construction meeting between the permittee, contractor, consultant and the Program.

13. Immediately following final grading and planting of the wetland mitigation project, the permittee shall notify the Land Use Regulation Program, in writing that the construction of the mitigation project has been completed in accordance with the approved plan. In addition to the notice, the permittee shall submit as built plans of the site and photos with a photo location map of the completed project.

14. The permittee shall post the mitigation area with several permanent signs, which identify the site as a wetland mitigation project and that mowing, cutting, dumping and draining of the property is prohibited. The sign must also state the name of the engineering/environmental firm that designed and constructed the mitigation site with a phone number. In addition, the permittee shall visibly mark/staked (oak stakes) the extent of the wetland mitigation area and ensure the stakes remain that way for the entire monitoring period with the location of those stakes shown on the as built plan.

15. The permittee shall monitor the wetland mitigation project for 5 full growing seasons if it is a proposed forested wetland and for 3 full growing seasons for a scrub/shrub or emergent wetland after the mitigation project has been constructed. The permittee shall submit monitoring reports to the Land Use Regulation Program no later than November 15th of each monitoring year (All monitoring report must include the standard items identified in the attachment and the information requested below).

16. Throughout the monitoring period, the permittee must eliminate either through hand-pulling, application of a pesticide or other Department approved method any occurrence of an invasive/noxious species on the mitigation site.

17. All monitoring report will include all the following information (see attached monitoring report checklist):

    i. The monitoring reports submitted prior to the final one must include documentation that it is anticipated, based on field data, that the goals of the wetland mitigation project including the transition area, as stated in the approved wetland mitigation proposal and the permit will be satisfied. If the permittee is finding problems with the mitigation project and does not anticipate the site will be a full success then recommendations on how to rectify the problems must be included in the report with a time frame in which they will be completed. The final monitoring report must include documentation to demonstrate that the goals of the wetland mitigation project including the required transition area, as stated in the approved wetland mitigation proposal and the permit, has been satisfied.

Documentation for this report will also include a field wetland delineation of the wetland mitigation project based on techniques as specified in the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (1989);

ii. The monitoring reports submitted prior to the final one must include documentation that the site is progressing towards the 85 percent survival and percent aerial coverage of mitigation plantings or target hydrophytes which are species native to the area and similar to ones identified on the mitigation planting plan. If the permittee is finding problems with the mitigation project and does not anticipate the site will or has achieved the 85 percent survival and 85 percent areal coverage criteria then recommendations on how to rectify the problems must be included in the report with a time frame in which they will be completed. The final monitoring report must include documentation the site has an 85 percent survival and 85 percent areal coverage of the mitigation plantings or target hydrophytes which are species native to the area and similar to ones identified on the mitigation planting plan;

iii. Documentation to demonstrate the site is less than 10 percent occupied by invasive or noxious species such as but not limited to *Phalaris arundinacea* (Reed canary grass), *Phragmities australis* (Common reed grass), *Pueraria lobata* (Kudzu), *Typha latifloia* (Broad-leaved cattail), *Typha angustifolia* (Narrowed leaved cattail), *Lythrum salicaria* (Purple loosestrife), *Ailanthus altissima* (Tree-of-heaven), *Berberis thunbergi* (Japanese barberry), *Berberis vulgaris* (Common barberry), *Elaeagnus angustifloia* (Russian olive), *Elaeagnus umbellata* (Autumn olive), *Ligustrum obtusifolium* (Japanese privet), *Ligustrum vulgare* (Common privet) and *Rosa multiforia* (Multiflora rose). If the site is more than 10 percent occupied by invasive or noxious species then the monitoring report must include a proposed remediation plan and a time frame in which it will be completed.

iv. Demonstrate through soil borings and a soil test that a minimum six inch layer of top-soil or A-Horizon was used/retained on the mitigation site and if the natural top-soil was used at least 8% organic carbon content (by weight) was incorporated into the A-horizon for sandy soil and for all other soil types 12% organic content or if manmade top soil was used it consisted of equal volumes of organic and mineral materials. If the site fails to meet this standard the monitoring report must include a proposed remediation plan and a time frame in which it will be completed. The final monitoring report must include documentation that the site contains hydric soils or there is evidence of reduction occurring in the soil; and

v. The monitoring reports submitted prior to the final report must include documentation that demonstrates the proposed hydrologic regime as specified in the mitigation proposal appears to be met. If the permittee is finding problems with the mitigation project and does not anticipate the proposed hydrologic regime will be or has not been met then recommendations on how to rectify the problem must be included in the report along with a time frame within which it will be completed. The final monitoring report must include documentation that demonstrates that the proposed hydrologic regime as specified in the mitigation

proposal, which proves the mitigation site is a wetland has been satisfied. The documentation shall include when appropriate monitoring well data, stream gauge data, photographs and field observation notes collected throughout the monitoring period.

18. Once the required monitoring period has expired and the permittee has submitted the final monitoring report, the Program will make the finding that the mitigation project is either a success or a failure. This mitigation project will be considered successful if the permittee demonstrates all of the following:

    i. That the goals of the wetland mitigation project including the required transition area, as stated in the approved wetland mitigation proposal and the permit, has been satisfied. The permittee must submit a field wetland delineation of the wetland mitigation project based on the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (1989) which shows acres of emergent/scrub shrub/forested wetlands have been created/restored/enhanced;

    ii. The site has an 85 percent survival and 85 percent areal coverage of the mitigation plantings or target hydrophytes which are species native to the area and similar to ones identified on the mitigation planting plan;

    iii. The site is less than 10 percent occupied by invasive or noxious species such as but not limited to *Phalaris arundinacea* (Reed canary grass), *Phragmities australis* (Common reed grass), *Pueraria montana* (Kudzu), *Typha latifloia* (Broad-leaved cattail), *Typha angustifolia* (Narrowed leaved cattail), *Lythrum salicaria* (Purple loosestrife), *Ailanthus altissima* (Tree-of-heaven), *Berberis thunbergi* (Japanese barberry), *Berberis vulgaris* (Common barberry), *Elaeagnus angustifloia* (Russian olive), *Elaeagnus umbellata* (Autumn olive), *Ligustrum obtusifolium* (Japanese privet), *Ligustrum vulgare* (Common privet) and *Rosa multiforia* (Multiflora rose);

    iv. The site contains hydric soils or there is evidence of reduction occurring in the soil; and,

    v. That the proposed hydrologic regime as specified in the mitigation proposal, which proves the mitigation site is a wetland has been satisfied. The documentation shall include when appropriate monitoring well data, stream gauge data, photographs and field observation notes collected throughout the monitoring period.

19. If the mitigation project is considered a failure, the permittee is required to submit a revised mitigation plan to rectify the wetland mitigation site. The plan shall be submitted within 60 days of receipt of the letter from the Program indicating the wetland mitigation project was a failure. The financial surety, if required, will not be released by the Program until such time that the permittee satisfies the success criteria as stipulated in item (p).

20. All excavated material and dredged spoils must be disposed of in a lawful manner outside of any regulated floodplain, open water, freshwater wetlands or adjacent transition areas, and in such a way as to not interfere with the positive drainage of the receiving area.

21. The drawings approved with this Permit Equivalency are five (5) sheets prepared by Richard A. Masters, entitled:

"CHEMSOL, INC. PISCATAWAY, NEW JERSEY EPA PROJECT NO. NJD 980528889",

"WETLAND MITIGATION PLAN WETLAND IMPACTS", Sheet 1 of 5, dated 5/31/01, and unrevised,

"WETLAND MITIGATION PLAN WETLAND RESTORATION PLAN", Sheet 2 of 5, dated 5/30/01, and unrevised,

"WETLAND MITIGATION PLAN PLANTING PLAN", Sheet 3 of 5, dated April 9, 2001, and unrevised,

"WETLAND MITIGATION PLAN TYPICAL SECTION AND NOTES", Sheet 4 of 5, dated 4/11/01, and unrevised,

"WETLAND MITIGATION PLAN STREAM PROFILES AND RESTORATION DETAILS", Sheet 5 of 5, dated 7/25/01, and unrevised,

Also approved are seven (7) sheets prepared by Gary J. Dipippo, dated March 30, 2001, last revised August 8, 2001, unless otherwise noted, entitled:

"CHEMSOL, INC. PISCATAWAY, NEW JERSEY EPA PROJECT NO. NJD 980528889",

"EXISTING SITE CONDITIONS", Sheet 1 of 8, last revised 4/18/01,

"SITE ACCESS/TRAFFIC CONTROL PLAN", Sheet 2 of 8, last revised 4/18/01,

"EXCAVATION PLAN", Sheet 4 of 8,

"RESORATION PLAN", Sheet 5 of 8,

"SOIL EROSION AND SEDIMENT CONTROL PLAN", Sheet 6 of 8

"DETAILS", Sheet 7 of 8, last revised 8/9/01,

"EXISTING STREAM 1-B CROSS-SECTIONS", Sheet Unnumbered, dated September 19, 2001

This letter is valid for five years from the date of this letter. Should you have any questions, please contact Damian Friebel at (609) 984-0194.

Very truly yours,

Madhu Guru

Madhu Guru, PE
Section Chief
Northwest and Central Engineering

C: Township of Piscataway and Construction Official
Middlesex County Engineer
Chemsol Inc.
Virginia KopKash

SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATE

440 Franklin Turnpike
Mahwah, New Jersey 07430

Tel: (201) 818-6055
Fax: (201) 818-6057

SOIL EROSION CONTROL PLAN
APPROVED FOR CONSTRUCTION
BY TOWNSHIP OF PISCATAWAY
PERMIT # 1267
DATE 8.9.01

ECKENFELDER®
AN INTEGRAL PART OF
BROWN AND CALDWELL

June 22, 2001

20541.090

TOWNSHIP OF PISCATAWAY
RECEIVED
2001 JUN 25 PM 3:16
PUBLIC WORKS
ENGINEERING DIVISION

Planning Board
Town of Piscataway
455 Hoes Lane
Piscataway, New Jersey 07726

RE: Soil Erosion and Sediment Control Plan
Chemsol Inc. Superfund Site Remedial Action
Town of Piscataway, Middlesex County
Lots 1.01 and 1.02, Block 229.1

To Whom It May Concern:

Enclosed are four copies of a Soil Erosion and Sediment Control (SESC) Plan prepared on behalf of the Chemsol Inc. Superfund Site Environmental Remediation Trust (Trust). This SESC Plan has been prepared for the remedial action to be implemented at the above-referenced site.

The Trust is required to implement remedial action for this site in conformance with a Consent Order entered into with the United States Environmental Protection Agency (USEPA) on January 26, 2000. The remedial action, detailed in a Final Remedial Design Report, has been submitted to the USEPA for review. The remedial action will consist of excavation, off-site disposal of contaminated soils, backfilling the excavated areas with clean fill and site restoration.

Included as part of this SESC Plan are the following items:

- Letter and report
- Completed application form
- Construction plan
- Details plan

This letter includes a brief description of the site and background information, a discussion of the remedial action and applicable soil erosion and sediment control factors addressed by this Plan. Because the material being disturbed is not native soil, a soils survey sheet has not been included with this plan.

Site Description and Background

The Chemsol Inc. Superfund Site, currently owned by Tang Realty Inc. (TRI), is located at the end of Fleming Street in Piscataway, New Jersey. The site consists of two lots (Lots 1.01 and 1.02) which together occupy approximately 40 acres. The

BUCKEYE PIPELINE EASEMENT ACCESS APPROVAL

BUCKEYE PIPE LINE COMPANY

5002 Buckeye Road
Emmaus, Pennsylvania 18049
Tel (484) 232-4000
Fax (484) 232-4541

RECEIVED
JUL 27 2001
BROWN AND CALDWELL

July 24, 2001

Ms. Carla Oliveira
Brown and Caldwell
440 Franklin Turnpike
Mahwah, NJ 07430

RE: Chemsol Superfund Site
Piscataway, NJ
BPL LN603/620FZ; 16" & 20"; R/W M-170

Dear Ms. Oliveira:

Buckeye Pipe Line Company has no objections to the temporary use of our pipeline easement for an access road to the subject property, provided the access road is not installed longitudinally over our 16" & 20" high-pressure petroleum pipelines. Should the access road need to cross the pipelines, additional fill may be required over our pipelines at the location of the crossing.

Please coordinate this work with our Local Operations Supervisor, Mr. Joseph Farrell. Mr. Farrell may be reached at 908-862-2544, extension 217.

Sincerely,

William R. Serra
Relocation Engineer

xc: J. M. Farrell

ELIZABETHTOWN WATER COMPANY EASEMENT ACCESS APPROVAL

Elizabethtown Water Company
Netherwood Operations Center
1341 North Avenue
P.O. Box 111
Plainfield, NJ 07061-0111
Phone: (908) 654-1234
www.etownwater.com

VIA FAX

April 4, 2001

Ms. Carla Oliviera
Brown & Caldwell
440 Franklin Turnpike
Mahwah, New Jersey 07430

RE: Chemsol Superfund Project

Dear Carla:

Please be advised that the protection of our facilities, and our continued access to them, are of paramount concern to Elizabethtown.

Please also be aware that if fill material (permanent or temporary) is going to be placed over or near our main, any existing valve boxes or other at or above grade appurtenances in the affected area must be raised to the prevailing new grade.

With this in mind, please have the appropriate person contact Mr. John Rudko here at Elizabethtown in order to have the site marked out, and have the appropriate materials available on-site. He can be reached at 908.301.3465

This letter confirms Elizabethtown's approval of the proposed improvements around and temporary access to our water main easement on the Chemsol site. Provided that your efforts are coordinated with ours and that the integrity of our pipeline is assured.

Please call me if you have any questions or comments. I can be reached at 908.301.3467.

Sincerely,

Tom Santacroce
Property Manager
Elizabethtown Water Company

cc: John Rudko

Post-It™ brand fax transmittal memo 7671 | # of pages ▸

To C.O.	From T.S
Co.	Co.
Dept.	Phone #
Fax # 201.818 6057	Fax #

J

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

Prepared by:

_____

[Signature]

_____

[Print name below signature]

Recorded by:

_____

[Signature, Officer of County Recording Office]

_____

[Print name below signature]

DEED NOTICE

This Deed Notice is made as of the _____ day of _____, ____, by Tang Realty, Inc., 1703 E. 2nd Street, Scotch Plains, NJ 07076 (together with his/her/its/their successors and assigns, collectively "Owner").

WITNESSETH:

WHEREAS, Owner is the owner in fee simple of certain real property designated as Block 229.1 Lots 1.01 and 1.02, on the tax map of the Town of Piscataway of Middlesex County; New Jersey Department of Environmental Protection Known Contaminated Site List Number NJD 980528889 more particularly described on Exhibit A attached hereto and made a part hereof (the "Property"); and

WHEREAS, the lead program during the remediation was USEPA Superfund Site Program and the program identification number, if applicable, was EPA 910237; and

WHEREAS, the New Jersey Department of Environmental Protection ("Department") approved a remedial action on September 28, 2001 for Chemsol Inc. Superfund Site Remedial Work Element I, Soils (NJD 980528889) concerning the Property in which the Department has approved the use of institutional controls and/or engineering controls in accordance with N.J.S.A. 58:10B-13; and

WHEREAS, this Deed Notice itself is not intended to create any interest in real estate in favor of the Department, nor to create a lien against the Property, but merely is intended to provide record or notice of certain conditions and restrictions on the property and to reflect the regulatory and statutory obligations imposed as a condition of using institutional and/or engineering controls; and

WHEREAS, the areas described on Exhibit B attached hereto and made a part hereof (the "Affected Areas") contain contaminants above the applicable remediation standards that would allow for the unrestricted use of the Property; and

WHEREAS, the type, concentration and specific location of the contaminants are described on Figure-B1 and Table-B1 on Exhibit B attached hereto and made a part hereof; and

WHEREAS, a narrative description of engineering controls and associated monitoring and maintenance activities is provided in Exhibit C; and

WHEREAS, to prevent the potential for migration of the contaminants and unacceptable risk of exposure to the contamination to humans or the environment, a permeable surface cover is in place at the Property, at the location shown in Exhibit D on maps or diagrams; and

WHEREAS, to prevent the potential for unacceptable exposure to the contamination to humans or the environment, a fence and posted signs are in place at the Property, at the locations shown in Exhibit D; and

WHEREAS, in accordance with the Department's approval of the remedial action work plan, and in consideration of the terms and conditions of that approval, and other good and valuable consideration, Owner has agreed to subject the Property to certain statutory and regulatory requirements which impose restrictions upon the use of the Property, and to restrict certain activities at the Property, as set forth below.

NOW, THEREFORE, Owner agrees to the conditions and restrictions listed below and hereby notifies all interested parties, owners, lessees and operators that the applicable regulations and statutes require of each such person while owning, leasing or operating the Property as follows:

1. RESTRICTED USES. The owner(s) of all or any fee interest in all or any portion of the Affected Areas and each operator of all or any portion of the Affected

Areas, shall not allow any of the following uses of the following portions of the Affected Areas:

Portion of the Affected Area	**Restricted Use**
The Affected Areas as identified in Exhibit B.	The use shall be restricted *to non-residential uses only and* pursuant to paragraphs 2 and 3.

2. EMERGENCIES. In the event of an emergency which presents a significant risk to public health, safety, or the environment, the application of Paragraph 1 above may be temporarily and unilaterally suspended, by Owner, provided that the Owner:

i. Immediately notifies the Department of the emergency;

ii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;

iii. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the residual contamination; and

iv. Restores the Affected Areas to the pre-emergency conditions to the extent reasonably possible, and provides a report to the Department of such emergency and restoration efforts within ninety (90) calendar days after the end of the emergency.

3. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

(a) Except as provided in Paragraph 2 above, no owner or operator shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the

Affected Areas which disturbs any engineering control or which creates an unacceptable risk of exposure of humans or the environment to contamination in the Affected Areas without first obtaining the express written consent of the Department. Nothing herein shall constitute a waiver of the Owner's or operator's obligation to comply with all applicable laws and regulations.

(b) Notwithstanding subparagraph 3(a) above, the Department's consent is not required for any alteration, improvement, or disturbance provided the Owner or operator:

i. Provides for restoration of any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance; and

ii. Does not allow an exposure level above those noted under Restricted Uses, provided that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance.

4. ACCESS. While this Deed Notice is in effect, the Owner agrees to allow the Department, its agents and representatives access to the property to inspect and evaluate the continued effectiveness of the institutional or engineering controls and to conduct additional remediation to ensure the protection of the public health and safety and the environment.

5. NOTICE TO LESSEES AND OTHER HOLDERS OF PROPERTY INTERESTS. Owner shall cause all leases, grants, and other written transfers of interest in the Affected Areas to contain a provision expressly requiring all holders thereof to take the Property subject to the restrictions

contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of Owner to provide any notice required by any law, regulation, or order of any governmental authority.

6. ENFORCEMENT OF VIOLATIONS. The restrictions provided herein may be enforceable solely by the Department against any person who violates this Deed Notice. A violation of this Deed Notice shall not affect the status of the ownership of or title to the Property. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11u and require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11g.

7. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable, such provision shall be deemed to have been modified automatically to conform to the requirements for validity and enforceability as determined by such court. In the event that the provision invalidated is of such a nature that this provision cannot be so modified, the provision shall be deemed deleted from this instrument as though it had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.

8. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Owner and upon Owner's successors and assigns while each is an owner or operator of the Property, and the Department.

9. REQUIREMENT OF NOTIFICATION. The Owner shall notify any person who intends to excavate on the property of the nature and location of any contamination existing on the property and of any conditions or measures necessary to prevent exposure to contaminants.

10. TERMINATION AND MODIFICATION.

(a) This Deed Notice shall terminate only upon filing of an instrument, executed by the Department, in the office of the County Clerk of Middlesex County, New Jersey, expressly terminating this Deed Notice.

(b) Any person may request in writing at any time that the Department modify or terminate this Deed Notice or initiate termination proceedings based on, for example, a proposal that the Property does not pose an unacceptable risk to public health and safety or the environment. Within ninety (90) calendar days after receiving such a request the Department will either:

i. Approve the request and have the Owner:

--Record with the office of the county recording officer a notice executed by the Department that the use of the Property is no longer restricted and the Deed Notice is terminated or record a modified Deed Notice delineating the new restrictions; and

--Provide written notice to each municipality in which the Property is located, with a copy to the Department, of the removal or change of the restrictions contained herein; or

ii. Issue a written notification of intent to deny the request pursuant to (c) below.

(c) The Department will set forth in a notice of intent to deny a request to modify or terminate this Deed Notice the basis for its decision. The owner can respond to the intent to deny by providing new or additional information or data. The Department will review any such new or additional information or data and issue a final decision to grant or deny the request within sixty (60) calendar days after the Department's receipt of the owner's response.

IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

ATTEST: [Name of corporation]

_____ By_____

_____ _____

[Print name and title] [Print name and title]

STATE OF NEW JERSEY

SS.:

COUNTY OF MIDDLESEX

I certify that on _____ __, 20___, [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that:

(a) this person is the [secretary/assistant secretary] of Tang Realty, Inc., the corporation named in this document;

(b) this person is the attesting witness to the signing of this document by the proper corporate officer who is the [president/vice president] of the corporation;

(c) this document was signed and delivered by the corporation as its voluntary act and was duly authorized;

(d) this person knows the proper seal of the corporation which was affixed to this document; and

(e) this person signed this proof to attest to the truth of these facts.

_____

_____
[Print name and title of attesting witness]

Signed and sworn before me on
_____, 20____

_____
_____, Notary Public
[Print name and title]

EXHIBIT A

Metes and Bounds Description of Property and Tax Map

Attached a tax map of the site which shows the metes and bounds and the block and lot numbers of the site.

All that certain lot, tract or parcel of land and premises, hereinafter particularly described, situate, lying and being in the Township of Piscataway, in the County of Middlesex and State of New Jersey.

BEGINNING at a point in the northerly right-of-way line of the Port Reading Railroad, said point being the intersection of property about to be conveyed and the easterly side line of the development known as New Market Terrace, Section 3, situated in the Township of Piscataway, Middlesex County, New Jersey, by F.A. Dunham, Incorporated, on file in the Middlesex County Clerk's Office, and from said beginning point running thence (1) along the northerly side line of the Port Reading Railroad right-of-way south seventy-nine degrees fifty-five minutes east (S. 79° 55' E.) one thousand seven hundred three (1,703) feet, more or less, to a point in line of lands of Charles Smith; thence (2) along the westerly property line of Charles Smith northerly one thousand (1,000) feet, more or less, to the southeasterly corner of lands recently granted to Melsen E. Lausten; thence (3) along the southerly side line of Lausten's property parallel to, and one thousand (1,000) feet distant at right angles, from the northerly side line of the Port Reading Railroad right-of-way north seventy-nine degrees fifty-five minutes west (N. 79° 55' W.) one thousand seven hundred seventy (1,770) feet, more or less, to a point in the easterly side line of the development known as New Market Terrace, Section 3, aforesaid; thence (4) on the easterly line of New Market Terrace, south one degree nineteen minutes west (S. 1° 19' W.) one thousand ten (1,010) feet, more or less, to the point and place of BEGINNING.

Being the same premises described in that certain deed between Fannie Steinberg, a widow, devisee under the Last Will and Testament of David Steinberg, to Marvin H. Mahan dated July 29, 1952 and recorded July 29, 1952 in the Middlesex County Clerk's office in Deed Book 1632, page 56 *et seq.*

Being also known and designated as Lots 1.01 and 1.02 in Block 229.1 on the official tax map of the Township of Piscataway, County of Middlesex, State of New Jersey.

EXHIBIT B
Description of Affected Areas

Attached is a map and table, prepared by an engineer, showing the location, depth and concentration of all contaminants exceeding applicable remediation standards, showing any institutional or engineering controls implemented or to be implemented at the site.

Contaminant [List contaminants]	Concentration [List concentrations]	Location [Describe location of contaminants by reference to Exhibits A and B]
PCBs	The sample results reported by sample location are shown on Table-B1.	The locations of affected areas are within the metes and bounds in Exhibit A. The affected areas and the contaminant concentrations are shown on Figure B1.
Lead	The sample results reported by sample location are shown on Table-B1.	The locations of affected areas are within the metes and bounds in Exhibit A. The affected areas and the contaminant concentrations are shown on Figure B1.

TABLE B1
SUMMARY OF POST-EXCAVATION SAMPLES
Remedial Work Element I, Soils
Chemsol Inc. Superfund Site

Sample	Total PCBs (ppm)	Lead (ppm)
SS-1-449	0.183	30
SS-2-451	3.91	70
SS-3-453	0.38	22
SS-4-455	0.145	29
SS-5-456	0.295	23
SS-6-458	3.69	46
SS-7-460	ND	28
SS-8-462	0.012	24
SS-9-464	1.39	37
SS-10-466	2.56	80
SS-11-1136	2.24	66
SS-11B-1136	4	150
SS-11C-1136	4.15	75
SS-12	2.89	96
SS-12B	0.95	61
SS-13-1112	ND	5.7
SS-14-487	1.05	27
SS-15-1105	0.013	14
SS-16-1103	0.646	10
SS-17-1101	0.38	15
SS-18-1094	0.074	16
SS-19-1092	0.183	17
SS-20-1090	ND	10
SS-21-1085	0.026	14
SS-22-1083	0.179	15
SS-23-1076	0.108	14
SS-24-1074	0.061	15
SS-25-1072	0.097	13
SS-26-1070	0.208	17
SS-27-1061	7.4	40
SS-28-1059	0.29	12
SS-29-1057	0.072	16
SS-30-1043	1.02	14
SS-31-1045	0.232	9.9
SS-32-1047	0.04	12
SS-33-1049	ND	12

TABLE B1
SUMMARY OF POST-EXCAVATION SAMPLES
Remedial Work Element I, Soils
Chemsol Inc. Superfund Site

Sample	Total PCBs (ppm)	Lead (ppm)
SS-34-658	0.21	20
SS-35-491	1.43	68
SS-36-493	5.98	54
SS-37-495	6.9	45
SS-38-497	11	45
SS-39-499	10.4	83
SS-40-637	1.62	63
SS-41-639	28.1	170
SS-42-641	0.32	21
SS-43-662	1.32	30
SS-44-664	5	74
SS-45-666	0.393	24
SS-47-671	15.3	180
SS-48-672	10.9	340
SS-49-674	13.6	240
SS-50-676	12	32
SS-51-678	5.8	28
SS-52-680	0.066	18
SS-53-682	0.79	27
SS-55-712	1.19	28
SS-56-713	0.573	23
SS-57-715	0.044	22
SS-58-717	2.88	42
SS-60-721	21.7	860
SS-61-723	20.6	3400
SS-62-725	0.52	55
SS-63-727	5.7	40
SS-64-729	3.28	44
SS-65-731	7	52
SS-66-733	0.081	16
SS-67-761	0.67	88
SS-68-763	0.385	22
SS-69-765	0.668	23
SS-71-752	12.6	27
SS-73-748	0.118	28
SS-74-776	2.01	190

TABLE B1
SUMMARY OF POST-EXCAVATION SAMPLES
Remedial Work Element I, Soils
Chemsol Inc. Superfund Site

Sample	Total PCBs (ppm)	Lead (ppm)
SS-75-777	8.4	48
SS-76-780	9.2	260
SS-77-782	16.9	360
SS-78-783	5.5	80
SS-79-785	ND	16
SS-81-813	0.315	13
SS-83-801	20.7	350
SS-84-818	29.4	280
SS-85-822	0.392	85
SS-86-824	0.377	40
SS-87-826	5.22	180
SS-88-827	21.4	800
SS-89-829	0.384	26
SS-90-831	4.44	150
SS-96-842	ND	330
SS-97-865	0.48	250
SS-98-868	45.8	510
SS-99-869	15.36	26
SS-100-834	2.49	57
SS-101-873	3	14
SS-109-910	ND	70
SS-110-913	14.97	14
SS-111-915	7.94	32
SS-112-917	0.14	22
SS-119-954	34.4	40
SS-120-956	4.66	46
SS-121-958	18	22
SS-123-962	2.61	10
SS-124-964	11.98	24
SS-131-998	4.86	22
SS-132-1000	2.54	24
SS-133-1002	5.9	21
SS-134-1004	6.8	28
SS-135-1006	4.48	29
SS-136-1008	4.2	23
SS-137-1010	12.4	35

TABLE B1
SUMMARY OF POST-EXCAVATION SAMPLES
Remedial Work Element I, Soils
Chemsol Inc. Superfund Site

Sample	Total PCBs (ppm)	Lead (ppm)
SS-138-1012	20.2	55
SS-139-407	30	26
SS-140-1040	1.55	28
SS-141-1042	0.071	30
SS-143-1120	5.5	35
SS-144-424	2.05	12
SS-145	ND	16
SS-S1B-1	0.062	12
SS-S1B-2	ND	6.7
SS-S1B-3	ND	12
SS-S1B-4	ND	12
SS-S1B-5	0.8	23
SS-S1B-6	0.17	22
SS-S1B-7	0.61	25
SS-S1B-8	0.21	26
SS-ND-1	0.0456	37
SS-ND-2	0.02	22
SS-ND-3	0.034	18
SS-ND-4	0.044	25
SS-ND-5	0.03	16
SS-ND-6	0.409	36
SS-ND-7	0.122	18
SS-ND-8	4.93	110
SS-ND-9	0.171	21
SS-ND-10	0.074	16
SS-ND-11	0.161	12

Notes:

ppm - parts per million

SS-ND Samples collected from the Northern Ditch

SS-S1B Samples collected from Stream 1-B

1. Aroclor pattern did not compare with the standard patterns. The aroclor in the sample was identified as the aroclor it most closely matched.

EXHIBIT C

Include narratives describing engineering controls and the monitoring and maintenance activities for the engineering controls.

A. Engineering Controls

The Affected Area of the site addressed by engineering controls is shown on Figure B1. The Affected Area is based on the soil excavation limit for the Remedial Work Element I in accordance with the Record of Decision issued by the USEPA. The soil excavation was two feet deep except in two areas where soils were excavated to six feet. These areas are shown on Figure B1. The engineering control over the remaining soils below the excavation depth consisted of two feet of clean fill and six feet in the two areas where the soil excavation was 6 feet deep. The second engineering control consists of a fence which encloses the Affected Area as shown on Figure D1-.

B. Operation and Maintenance

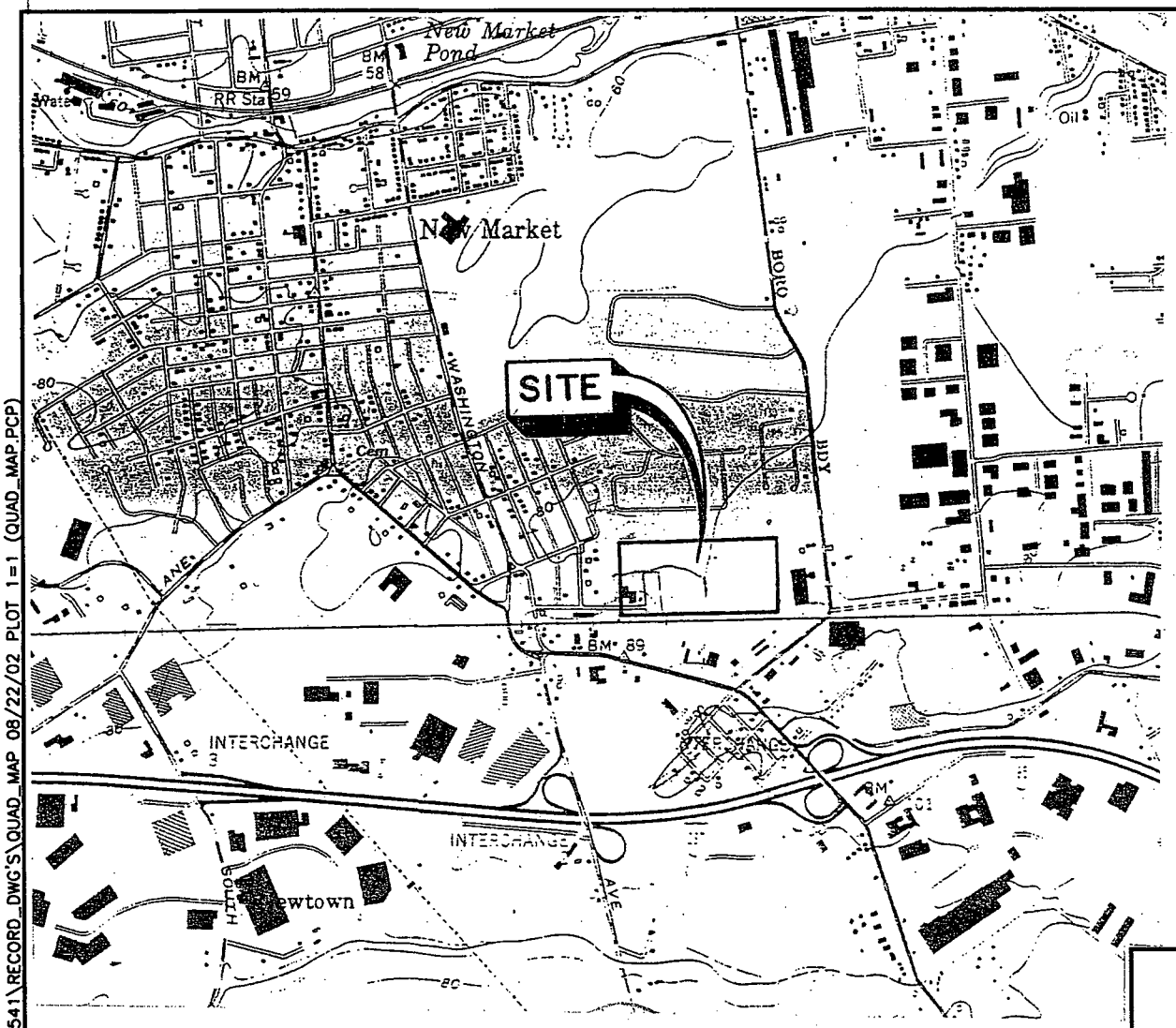
The conditions of the engineering control will be monitored for five years by visual inspection to ensure that vegetation has been established. Maintenance activities will include quarterly inspections, reseeding areas showing bare spots, and repairing washouts or gullies.

Quarterly site inspections will be performed to document conditions at the site and to inspect and maintain the perimeter fence. The results of each monitoring visit will be reported in an annual monitoring report. The report will include photographs from established photo stations, plant mortality data, species lists, and other information, including water level and wildlife observations. A copy of the report will be distributed to USEPA and NJDEP.

A biennial certification will be prepared in accordance with N.J.A.C. 7:26E-6.4(g)4.

EXHIBIT D

- United States Geological Survey Quadrangle Map, Attached
- Hagstrom County Map, Attached
- As-Builts of the Engineering Controls, Attached.



SOURCE:

USGS TOPOGRAPHIC MAP
PLAIINFIELD, NEW JERSEY
7.5' X 7.5' QUADRANGLE, 1981

2000 0 2000
scale feet

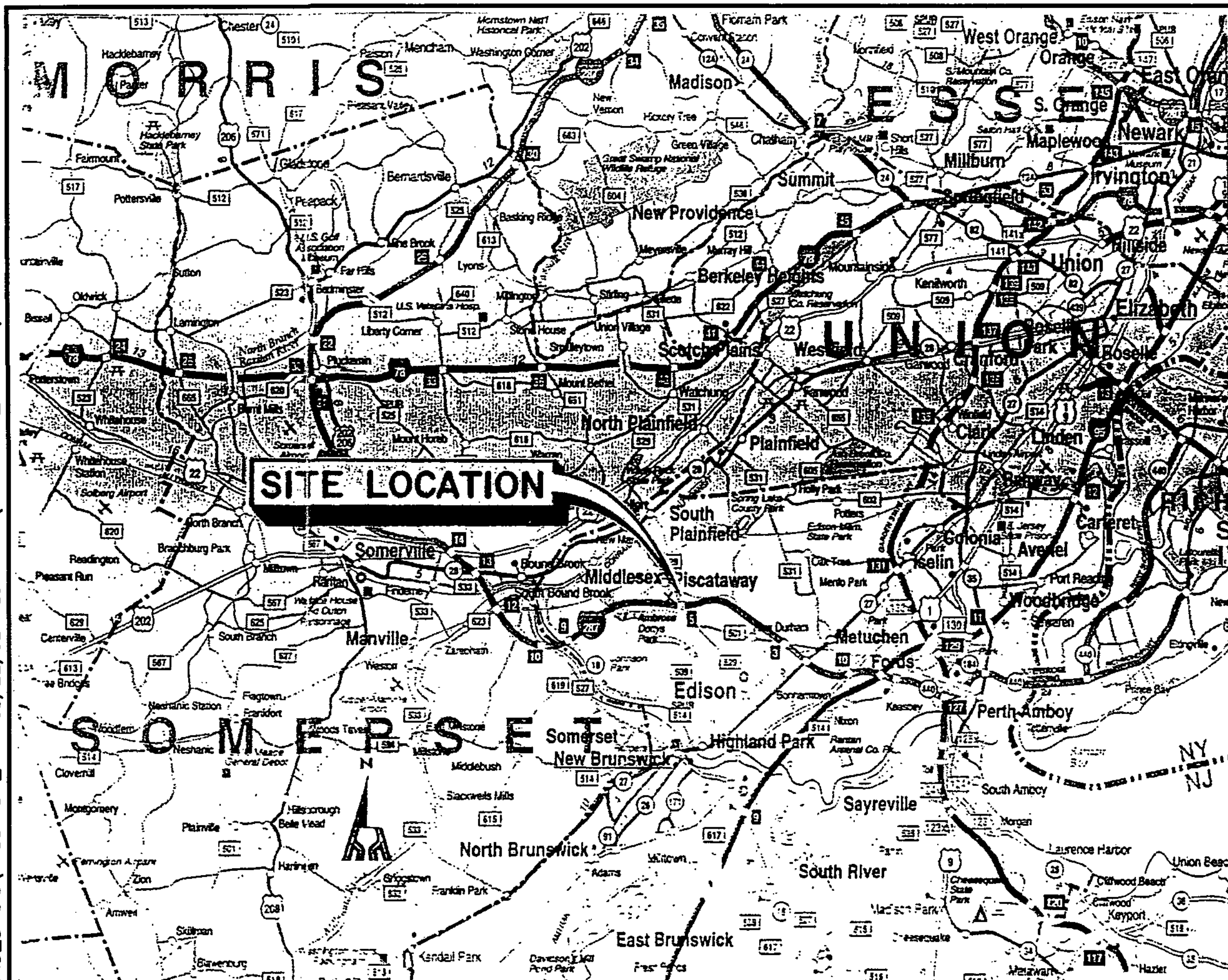
FIGURE 1

LOCATION OF SITE ON USGS QUADRANGLE MAP

CHEMSOL INC. SUPERFUND SITE
PISCATAWAY, NEW JERSEY

BROWN AND CALDWELL Allendale, New Jersey

P:\DRAFTING\CHEMSOL\20541\RECORD_DWG'S\QUAD_MAP 08/22/02 PLOT 1=1 (QUAD_MAP.PCP)



N

0 26,400 52,800

scale feet

MAP SOURCE:

HAGSTROM MIDDLESEX COUNTY ATLAS, 1998

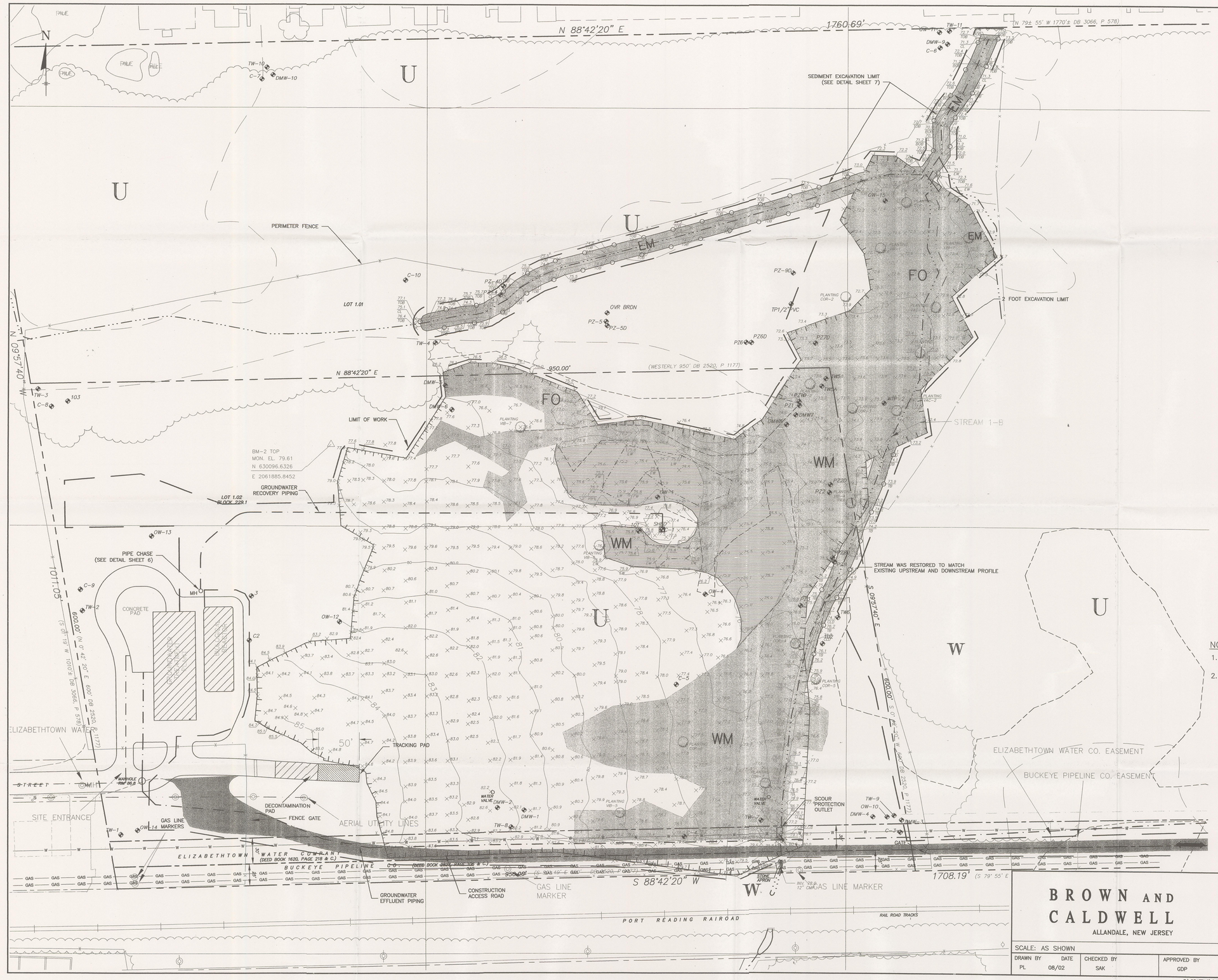
FIGURE 2

HAGSTROM STREET MAP

CHEMSOL INC. SUPERFUND SITE
PISCATAWAY, NEW JERSEY

BROWN AND CALDWELL Allendale, New Jersey

P:\DRAFTING\CHEMSOL\20541\RECORD_DWG'S\HAGSTROM_MAP 08/22/02 PLOT 1=1 (HAGSTROM_MAP.PCP)



LEGEND:

- WELL LOCATION
- MANHOLE
- BUILDING/STRUCTURE
- LIMIT OF WORK
- AFFECTED AREA (LIMIT OF PREVIOUS 2-FOOT SOIL EXCAVATION)
- BURIED GROUNDWATER RECOVERY/ EFFLUENT PIPE
- AFFECTED AREA (AREA OF PREVIOUS SEDIMENT EXCAVATION)
- PROPERTY LINE
- EASEMENT
- GAS LINE
- WATERMAIN LINE
- RAILROAD
- STREAM
- FENCE
- SPOT ELEVATION
- TOPOGRAPHIC CONTOUR
- 2001 WETLANDS BOUNDARY
- 1993/1994 WETLANDS BOUNDARY
- W — WETLAND
- U — UPLAND
- FINAL TOPOGRAPHIC CONTOUR
- RESTORED WETLAND
- COMPENSATORY WETLAND MITIGATION
- CONSTRUCTION ACCESS ROAD
- FO — MITIGATED FORESTED WETLANDS
- WM — MITIGATED WET MEADOW WETLANDS
- EM — MITIGATED EMERGENT WETLANDS
- PLANTING GROUP
- PONDED WATER

NOTES:

1. TOPOGRAPHICAL MAP PROVIDED BY MASER CONSULTING P.A. DATED 7-18-02.
2. SEE WETLANDS CONSTRUCTION REPORT FOR SEEDING/ PLANTING INFORMATION AND ADDITIONAL SITE RESTORATION DETAILS.

BROWN AND CALDWELL
ALLANDALE, NEW JERSEY

CHEMSOL INC.
PISCATAWAY, NEW JERSEY
OPERABLE UNIT No. 2, REMEDIAL WORK ELEMENT I
EPA PROJECT NO. NJD 980528889

FIGURE D3

SCALE: AS SHOWN					
DRAWN BY	DATE	CHECKED BY	APPROVED BY	JOB NUMBER	DRAWING NUMBER
PL	08/02	SAK	GDP	20541	–

P:\DRAFTING\CHEMSOL\20541\RECORD_DWGS\FIGURE D3.DWG, 08/23/2002 11:02:17AM By:McDonald XREF'S: site-restoration

APPENDIX K

WELL ABANDONMENT REPORTS

DWR-020
8/97

New Jersey Department of Environmental Protection
Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

WELL PERMIT # 15-43766 of well sealed

MAIL TO: **Bureau of Water Allocation**
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 3-23-02

PROPERTY OWNER TANG REALTY / MULLER, MICHA (Chemsol Inc site)

ADDRESS 10 Washington ST CN905 Morristown NJ 07960

WELL LOCATION 100 Fleming ST Piscataway, Middlesex NJ
Street & No., Township, County

PZ-2D	IA + IB	229A
Well No.	Lot No.	Block No.

USE OF WELL PRIOR TO ABANDONMENT: Piezometer

REASON FOR ABANDONMENT: Case Closure

WAS A NEW WELL DRILLED? ☐ YES ☑ NO PERMIT # OF NEW WELL

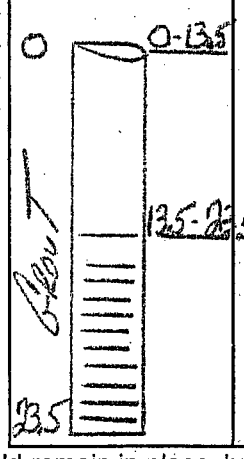
TOTAL DEPTH OF WELL 23.5
DIAMETER 2"
CASING LENGTH 13.5
SCREEN LENGTH 10'
NUMBER OF CASINGS

MATERIAL USED TO DECOMMISSION WELL:

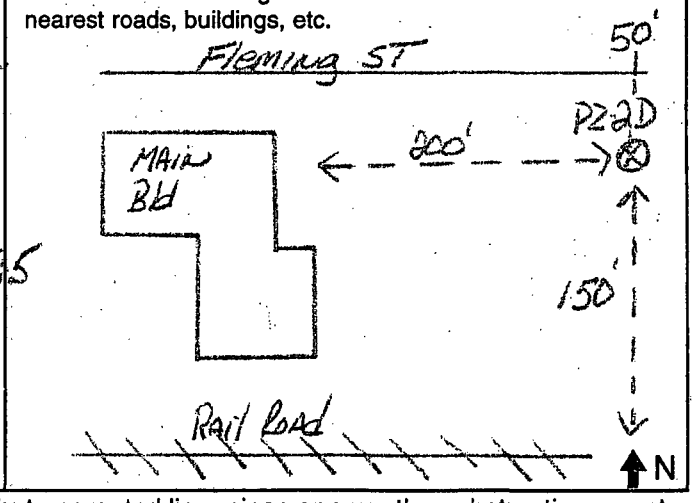
4 Gallons of Water
47 Lbs. of Cement
3 Lbs. of Bentonite
Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ✓ Consolidated
Unconsolidated

Cross-section of sealed well



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.

WAS CASING LEFT IN PLACE? ☑ YES ☐ NO CASING MATERIAL: PVC

WERE OTHER OBSTRUCTIONS LEFT IN WELL? ☐ YES ☑ NO WHAT WERE THE OBSTRUCTIONS:

IF "YES", AUTHORIZATION GRANTED BY _____ ON _____
(NJDEP Official) (Date)

Was an alternative decommissioning method used? ☐ YES ☑ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9-9.1 et seq.

CARMINE DELORSO	2020 Clinton Street Linden NJ	3-11-02
Performing Work (Print or Type) Name of NJ Certified Well Sealer	Address	Mailing Date
	Carmine DeLorso	JD 1210
	Signature of NJ Certified Well Sealer Performing Work	Registration #

COPIES: *White - Water Allocation* *Yellow - Owner* *Pink - Health Dept.* *Goldenrod - Driller*

DWR-020
8/97

New Jersey Department of Environmental Protection
Water Supply Element - Bureau of Water Allocation

WELL ABANDONMENT REPORT

WELL PERMIT # 25-43766
of well sealed

MAIL TO: **Bureau of Water Allocation**
PO Box 426
Trenton, NJ 08625-0426

DATE WELL SEALED 3-23-02

PROPERTY OWNER TANG REALTY / MULLER, MICHA (Chemsol Inc site)

ADDRESS 10 Washington ST CN905 Morristown NJ 07960

WELL LOCATION 100 Fleming ST Piscataway, Middlesex NJ
Street & No., Township, County

PZ-2D	IA + IB	229A
Well No.	Lot No.	Block No.

USE OF WELL PRIOR TO ABANDONMENT: PIEZOMETER

REASON FOR ABANDONMENT: Case Closure

WAS A NEW WELL DRILLED? ☐ YES ☑ NO PERMIT # OF NEW WELL _____

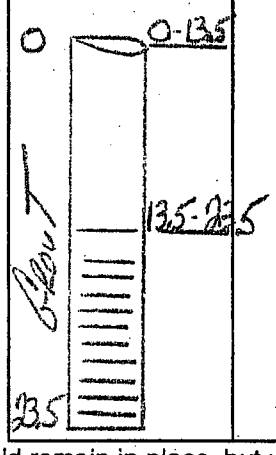
TOTAL DEPTH OF WELL 23.5
DIAMETER 2"
CASING LENGTH 13.5
SCREEN LENGTH 10'
NUMBER OF CASINGS _____

MATERIAL USED TO DECOMMISSION WELL:

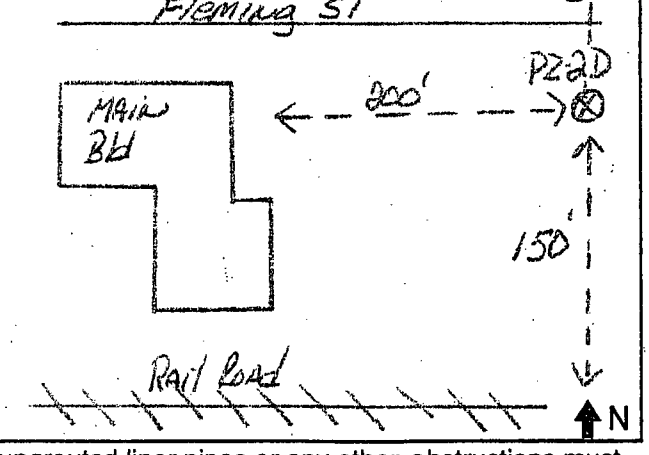
4 Gallons of Water
47 Lbs. of Cement
3 Lbs. of Bentonite
_____ Lbs. of Sand/Gravel
(none if well is contaminated)

FORMATION: ✓ Consolidated
_____ Unconsolidated

Cross-section of sealed well



Draw a sketch showing distance and relations of well site to nearest roads, buildings, etc.



To permit adequate grouting, the casing should remain in place, but ungrouted liner pipes or any other obstructions must be removed. Pressure grouting is the only accepted method.

WAS CASING LEFT IN PLACE? ☑ YES ☐ NO CASING MATERIAL: PVC

WERE OTHER OBSTRUCTIONS LEFT IN WELL? ☐ YES ☑ NO WHAT WERE THE OBSTRUCTIONS: _____

IF "YES", AUTHORIZATION GRANTED BY _____ ON _____
(NJDEP Official) (Date)

Was an alternative decommissioning method used? ☐ YES ☑ NO

IF "YES", authorization granted by _____ ON _____
(NJDEP Official) (Date)

I certify that this well was sealed in accordance with N.J.A.C. 7:9-9.1 et seq.

CARMINE DECORSO	2020 Clinton Street Linden NJ	3-11-02
Performing Work (Print or Type) Name of NJ Certified Well Sealer	Address	Mailing Date
	Carmine DeCorso	JD 18210
	Signature of NJ Certified Well Sealer Performing Work	Registration #

COPIES: *White - Water Allocation* *Yellow - Owner* *Pink - Health Dept.* *Goldenrod - Driller*