

1248641

[0066070H]

Office of River Protection  
Quarterly Milestone Review Meeting Minutes

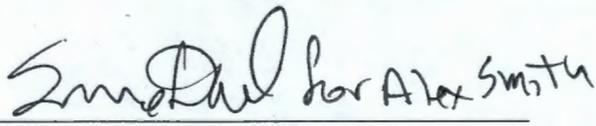
---

Department of Ecology  
Richland, Washington

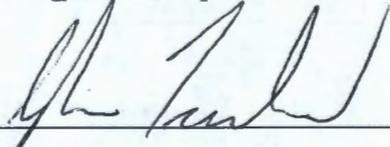
February 15, 2018

**RECEIVED**  
APR 02 2018  
**EDMC**

Office of River Protection  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
February 15, 2018

Approval:  Date: 3/23/18  
**A.K. Smith**

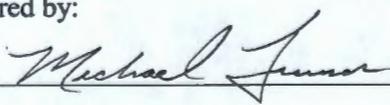
*Ecology IAMIT Representative*

Approval:  Date: 3-17-18  
**G.D. Trenchard**

*DOE IAMIT Representative*

Approval:  Date: 3/29/18  
**D.R. Einan**

*EPA IAMIT Representative*

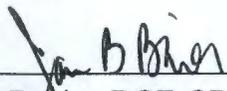
Minutes Prepared by:  Date: 2/26/18

**M.J Turner**

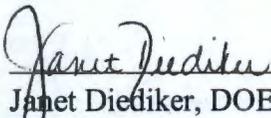
*Mission Support Alliance*



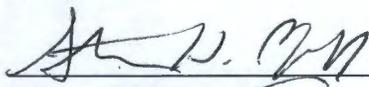
Project Manager concurrences of the above dated TPA Quarterly Meeting.

  
\_\_\_\_\_  
Jan Bowler, DOE-ORP Date: 3/15/18

  
\_\_\_\_\_  
Kaylin Burnett, DOE-ORP Date: 3/15/18

  
\_\_\_\_\_  
Janet Diediker, DOE-ORP Date: 3/20/18

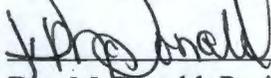
  
\_\_\_\_\_  
Paul Hernandez, DOE-ORP Date: 3/13/18

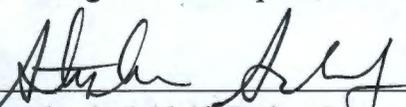
  
\_\_\_\_\_  
Steve Pfaff, DOE-ORP Date: 3/20/2018

  
\_\_\_\_\_  
Dustin Stewart, DOE-ORP Date: 3/13/18

  
\_\_\_\_\_  
Richard Valle, DOE-ORP Date: 3/14/2018

  
\_\_\_\_\_  
Jeff Lyon, Project Manager,  
Washington State Department of Ecology Date: 3/22/18

  
\_\_\_\_\_  
Dan McDonald, Project Manager,  
Washington State Department of Ecology Date: 3-29-18

  
\_\_\_\_\_  
Stephanie Schleif, Project Manager,  
Washington State Department of Ecology Date: 3/29/18

pen - in change to pg 4  
\* Complete  
MDF

# **TRI-PARTY AGREEMENT MILESTONE REVIEW AND MONTHLY SUMMARY REPORT**

## **1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS**

### **Upcoming Meetings**

The next ORP quarterly milestone review is scheduled for May 17, 2018 at the Ecology office in Richland, Washington. The next ORP project managers meeting (PMM) is scheduled for Wednesday, March 14, 2018, from 1:00 p.m. to 3:30 p.m. at the ORP office in Richland, Washington.

### **Recent Items Entered/To Be Entered into the Administrative Record**

U.S. Department of Energy (DOE), Office of River Protection (ORP) provided the monthly Tri-Party Agreement (TPA) report, which will be submitted to the Administrative Record (AR).

ORP stated that the Consent Decree (CD) report has not been issued, and there will be no presentations or discussion today on the CD milestones.

### **Tri-Party Agreement Milestone Status**

ORP noted that the status of several milestones has been changed to at risk (see page 4 of the TPA monthly summary report), and the milestones will be discussed under Single-Shell Tank Closure Program.

### **Office of River Protection/Washington State Department of Ecology Tri-Party Agreement and Consent Decree Agreements, Issues and Action items – February 2018**

(See agreements, issues and action items table).

#### **Action No. 1 (TF-16-11-04)**

ORP stated that there was no change in status regarding the T-112 work plan. This action remains on hold.

#### **Action No. 2 (TF-16-11-05)**

ORP stated that the document has not been released on the results of the four tanks that were visually inspected at ETF. This action remains open.

#### **Action No. 3 (TF-17-04-01)**

ORP reported that no actions have been taken associated with removal of the diesel generator, but there has been some planning in terms of the layout of activities for the removal. This action remains open.

**Action No. 4 (TF-17-08-04)**

ORP noted that this action was closed last month, and it will be removed from the action item table.

**Action No. 5 (TF-17-09-01)**

ORP stated that this action item will remain open since it is unknown what future DST issues there will be, and it will also serve as a reminder that the DST issues need to be addressed in the appropriate forums. This action remains open.

**Action No. 6 (TF-18-11-01)**

ORP stated that a meeting is scheduled February 26, 2018 to provide Ecology a briefing on the tank side cesium removal (TSCR), LAWPS, and AP Farm upgrades. ORP stated that this action will be closed after the meeting is held. This action remains open.

**Action No. 7 (TF-18-11-02)**

ORP noted that the SST report listed in the action table should read RPP-9937. ORP stated that two meetings have been held with Ecology to discuss RPP-9937, and two more meetings are scheduled. This action remains open.

**Action No. 8 (TF-18-11-03)**

ORP stated that it is in the process of gathering preliminary information, and the meetings with Ecology regarding DST HNF-3484 have not been scheduled. This action remains open.

**2.0 SYSTEM PLAN**

ORP stated that there were no changes since the last TPA monthly summary report. ORP added that it continues to work through negotiations with Ecology on M-062-45, with the goal to complete negotiations by the end of April 2018. Ecology referred to milestone M-062-45-T01 on page three of today's monthly summary, and stated that typically, if TPA milestones are not completed on time, the completion date is carried until the milestone is completed.

**3.0 ACQUISITION OF NEW FACILITIES**

ORP reported that there was no change to Acquisition of New Facilities, and the milestones continue to be in abeyance.

**4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS**

ORP stated that the status for Supplemental Treatment and Part B Permit Applications is similar to Acquisition of New Facilities. ORP noted that efforts associated with M-062-45-T01 have been under way since the official start of milestone negotiations.

## 5.0 DIRECT FEED LOW ACTIVITY WASTE PROJECTS

### Significant Past Accomplishments

Low-Activity Waste Pretreatment System (LAWPS): ORP noted that during a prior meeting, Ecology was provided at least six different items of correspondence. ORP stated that the correspondence provided an update from the external expert review that was conducted at the end of September 2017, the results of the review, and ORP's letters of direction to WRPS to initiate the recommendations from the review. ORP stated that the LAWPS proposal from WRPS is expected March 2, 2018, along with the proposal for the tank farm upgrades that are necessary to support LAWPS and the tank-side cesium removal (TSCR) system. ORP noted that part of the delivery timing of the proposals (see TSCR dates below) is so they can be integrated and remain in sync with each other.

ORP stated that it will conduct additional analysis and then work with ORP management on a path forward decision in terms of the TSCR project. ORP noted that the intent is to establish the TSCR project as soon as possible to develop the hot commissioning feed for the Low Activity Waste (LAW) facility at the Waste Treatment Plant (WTP). ORP added that the timing for LAWPS does not have the same sense of urgency as the TSCR system, and an evaluation will be done to determine the best timing for LAWPS, which will take into account lessons learned from operating the TSCR system. ORP stated that in the meantime, design activities are ongoing for LAWPS and TSCR.

Ecology asked if ORP was indicating that LAWPS may not be up and running when hot commissioning is started up for the LAW facility. ORP responded that Ecology was correct. ORP pointed out that the external expert review team that met in September 2017 recommended the two-phased approach for getting hot commissioning feed to the LAW facility, and that TSCR is a simpler system that can be developed and deployed more quickly. Ecology inquired about the capabilities for LAWPS and TSCR. ORP responded that LAWPS and TSCR will be using similar technologies for a simpler filtration system than the original Low Activity Waste Pretreatment design.

ORP noted that although its request for proposal to WRPS is to provide an estimate on the whole LAWPS project, the proposal will be more specific to the design element for LAWPS. ORP stated that the fabrication contract will come after the design is received.

Tank-Side Cesium Removal (TSCR): ORP reported that the current status of the TSCR project is the proposal from WRPS was received on January 4, 2018. ORP is currently reviewing WRPS's proposal for TSCR demonstration capability. ORP stated that WRPS released a request for proposals (RFP) for design and fabrication of the TSCR system on January 17, 2018. WRPS expects to receive vendor proposals for the TSCR system on March 5, 2018. ORP noted that the RFP includes completion of the factory acceptance testing.

## 6.0 242-A EVAPORATOR STATUS

ORP stated that the EC-08 campaign is scheduled for April 2018, to be followed by the EC-09 campaign in June 2018. ORP noted that the effluent sampling station installation is being completed. Ecology asked if the effluent sampling station would sample the process condensate. ORP responded that it would sample the process condensate, and all three effluents will be sent

to a central location, which will simplify the sampling effort and improve efficiency. Ecology noted that ORP has issued the 242-A Evaporator integrity assessment report. ORP responded that the integrity assessment report was issued, and Ecology was provided the integrity assessment report today on a CD.

## **7.0 LIQUID EFFLUENT RETENTION FACILITY/200 AREA EFFLUENT TREATMENT FACILITY (LERF/ETF)**

ORP noted that today's TPA report lists the volumes in each LERF basin for the month ending in January 2018. ORP stated that waste processing was initiated from Basin 43, which increased the total FY 2018 volume processed from 200,000 gallons to approximately 600,000 gallons.

Issues - ORP reported that the inter-basin transfer from LERF Basin 42 to LERF Basin 43, which was paused in late November 2017, has not resumed as of today. ORP noted that the leachate pumping rates continued to decrease in January 2018. ORP added that the leachate pumping rates continue to slowly decrease, which is what the vendor had indicated would occur. ORP stated that currently the leachate pumping rate in Basin 43 is sitting at 200 to 300 gallons per acre per day. Ecology noted that ORP is pumping out of Basin 43 to feed ETF. ORP acknowledged Ecology's statement, but pointed out that it is not a proportional decrease, and the leachate rates represent a steeper decrease compared to what is being pumped out.

## **8.0 TANK SYSTEM UPDATE**

### **Significant Past Accomplishments**

Double-Shell Tank Integrity - ORP noted that the AY-101 enhanced annulus visual inspections were done, and Ecology was provided some documentation on the inspections. Ecology acknowledged receipt of the documentation.

### **Significant Planned Actions in the Next Six Months**

Double-Shell Tanks Integrity – ORP noted that all of the visual inspections on the SSTs were completed, and the same crew is moving on to the planned DST visual inspections, which should be completed by the end of FY 2018. ORP stated that the ultrasonic testing (UT) inspection on AY-101 is expected to be completed in early March 2018, and the crew will move to AZ-101. UT inspection on AP-107 is planned for summer 2018.

Secondary Liners – ORP noted that secondary liners is a relatively new section that was added about three months ago. ORP stated that there are certain steps being taken to inspect the secondary liners and address the thinning in the secondary liner floor, which is usually minor thinning. ORP stated that visual inspections are being done on the AP-102 annulus floor, which is where some of the most significant thinning was identified, and additional UT work on AP-102 is also being done. ORP noted that the nondestructive examination (NDE) work that has been done was focused more on the primary tank bottom, and the NDE methods being developed will be applicable towards the secondary liner bottom as well.

Single-Shell Tank Integrity – ORP reported that the in-tank video inspections for B-104 and B-105 were completed as of today, and S-107 will be completed by the end of next week.

Independent Qualified Registered Professional Engineer (IQRPE) Activities – ORP noted that the IQRPE for the 242-A Evaporator was issued, and it was provided to Ecology today on a CD. ORP also provided Ecology RPP-6711 on a CD today.

ORP stated that Ecology had requested information regarding the ETF IQRPE, and a response was provided to Ecology, including clarification language. ORP noted that the project continues to work with the facility to identify time frames for outages, which will allow testing on the tank system.

ORP reported that the field work has been completed for the encasement pressure test on the line going from 219-S to SY-101. The work is associated with the 219-S integrity assessment, which is under way. ORP stated that leak checks are currently being done within 219-S. Ecology inquired about the 219-S facility. ORP responded that 219-S is next to the 222-S Lab, and the waste from samples that have been tested at the lab are sent back to tank farms via 219-S.

## **9.0 SINGLE-SHELL TANK INTEGRITY ASSURANCE**

ORP stated that the IQRPE activities for the SSTs structural integrity are continuing and are on schedule.

## **10.0 IN-TANK CHARACTERIZATION SUMMARY**

Ecology referred to a meeting that was held yesterday with ORP on the TX barrier, and initiated a discussion regarding Ecology's request that ORP align some of the information with the Hanlon report. Ecology stated that a leak loss report had been released by ORP and its contractor, which has a set of leaking tanks and different estimated volumes of leaks that are not reflected in the Hanlon report. Ecology stated that during the TX barrier meeting yesterday, the contractor was using the Hanlon information to determine how to construct the barrier, and the Hanlon report was cited as the official document. Ecology stated that using the Hanlon report as the official document creates problems, in addition to not allowing the contractor to have all the information.

Ecology stated that the Hanlon report should be reviewed and updated, and that ORP, as the owner/operator of a facility, needs to ensure the records it uses are accurate. Ecology requested an action from ORP to follow up with its plans for updating the Hanlon report. ORP responded that the Hanlon report or the tank farm monthly report is what is used, and if there is information that does not align with those reports, it needs to be reconciled. ORP noted that the leak loss report Ecology referred to is No. HNF-IP-0182. ORP indicated that there had been past discussions about updating the Hanlon report. Ecology agreed that there had been discussion, and the response had been it was too expensive and time-consuming to go through the leak loss process to update the document. ORP stated that it would follow up to provide a more satisfactory response to Ecology regarding the process to update the document. Ecology suggested following up with a discussion during next month's project managers meeting. ORP agreed to include the topic on the agenda next month.

## **11.0 SINGLE-SHELL TANK CLOSURE PROGRAM**

ORP stated that M-045-92O for the barrier 3 design is at risk, and there are several other barrier related milestones that are at risk, including M-045-92T, M-045-92Q, M-045-92U, M-045-92P,

and M-045-92R. ORP noted that the milestones are all tied together, and after negotiations with Ecology are completed, new dates will be assigned to the at risk milestones. ORP added that an email was sent to Ecology transmitting a change control form for barriers that added the schedule for design and construction of the SX expansion barrier, as well as scheduling out barrier 3 for TX Farm and barrier 4 for U Farm. Ecology is reviewing the change control form, and a meeting will be scheduled after Ecology has responded to the change control form. Ecology stated that its response will be transmitted to ORP today.

## 12.0 SINGLE SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments - ORP noted that the TPA points to the Consent Decree report, which has not been issued, but a brief update was provided today. ORP stated that the hose-in-hose transfer line has been installed between AX Farm and AZ-102, and the 13.8 kV transformer was installed, which will provide power to some of the retrieval equipment. The water and caustic piping is being installed that goes from the new water and air service building (A-285) to AX Farm. Removal of the hose-in-hose transfer lines between C Farm and AN farm has been initiated by removing the shielding. ORP stated that five thermocouples, two old sluicers, and two pumps have been removed from AX-102 and AX-104. ORP noted that there is one thermocouple remaining to be removed from AX-104, and there have been ongoing issues with the removal, which has been driving the variance with that work.

Significant Planned Activities in the Next Six Months – ORP stated that efforts will continue with removal of equipment from AX-102 and AX-104 and cleanouts in AX-103 and AX-101. The hose-in-hose transfer lines from C Farm will be disconnected, and some long-length equipment will be moved out of C-105 that will support sampling efforts.

Issues – ORP stated that the overall issue in AX Farm, as with a lot of the in-farm work, is reduced efficiencies associated with workers being on self-contained breathing apparatus (SCBA). ORP referred to the stuck thermocouple in AX-104, and stated that several attempts have been made to remove it, including the use of shims, penetrating oil, and rotating the thermocouple. An evaluation is being done to potentially inject some type of lubricant or possibly cutting the riser itself. ORP noted that there are other risers that could be used, but the area of this particular riser is a prime location.

Ecology initiated a discussion that it brought up during last month's PMM regarding the issue of removing equipment. Ecology noted that ORP has usually had success with removing equipment, but removal of this thermocouple isn't the first time there has been difficulty. Ecology pointed out that the mission at tank farms will continue for 50 to 100 years, and reiterated its suggestion about bringing the issue of equipment removal to the corrosion panel or the external expert review panel. ORP acknowledged that retrieval was not considered when the tanks were built, and as equipment is being assembled today, lessons learned are being taken for ongoing maintenance, inspection and future use. ORP noted that the thermocouple stuck in AX-104 has been unusual in comparison to removal of the five other thermocouples.

## 13.0 TANK OPERATIONS CONTRACT OVERVIEW

ORP referred to the unfavorable cost variance of \$2.7 million for base operations (5.01), and noted that there has been a lot of focus and effort at ETF. ORP stated that the contractor recently

completed a two-week self-assessment on overall conduct of operations, during which ORP maintained close oversight.

ORP noted that retrieve and close SSTs (5.02) refers to the Consent Decree report, which has not been issued, and a brief update was provided. ORP stated that the thermocouple that is stuck in AX-104 and the use of SCBA has impacted the schedule variance. ORP stated that the cost variance reflects that retrievals are going well overall and that C-105 retrieval was finished sooner than expected. Ecology asked if the information ORP discussed will be included in the Consent Decree report when it is issued. ORP stated that the information should be included in the Consent Decree report. Ecology stated that the information is usually included in the TPA report. ORP responded that for several months the information for 5.02 has only been included in the Consent Decree.

ORP noted that there was a favorable cost and schedule variance for waste feed delivery (5.03), which reflected some recovery from previous months. Ecology asked about the low activity waste transporter trailer, which was completed ahead of schedule. ORP responded that the low activity waste containers will be transported by truck from the Waste Treatment Plant to the Integrated Disposal Facility, and the trailer is basically a lowboy with isolocks that will be used to roll the containers.

ORP noted that the cost and schedule variances for treat waste (5.05) are very similar to what was reported last month, and the primary reason is the baseline contains the earned value data on the former concept for LAWPS. ORP stated that when the proposal for the optimized LAWPS design is received March 2, 2018, the proposal will undergo the review and negotiation process. Following the negotiation process, the contractor will submit a baseline change request. ORP pointed out that when the new baseline is implemented, it will reflect a more accurate status. ORP noted that in the meantime, a lot of the work in the current baseline is not being done since the decision to move to a form of optimized LAWPS, and it is not anticipated there will be much of a change in variances during the next few months. Ecology asked if ORP anticipated the negotiations will be finalized by the June/July 2018 time frame. ORP responded that it could be done by that time frame, although it is an optimistic guesstimate. ORP added that the intent is to negotiate to a CD-2/3, and then the balance will be placed in the baseline.

## **CONSENT DECREE MONTHLY SUMMARY REPORT REVIEW**

### **1.0 CONSENT DECREE MILESTONE STATISTICS/STATUS - CONSENT DECREE REPORTS/REVIEWS**

ORP stated that the Consent Decree (CD) report has not been issued, and there will be no presentations or discussion today on the CD milestones.

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items –February 2018

#	Action ID	Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-16-11-04	11-17-16	ORP to provide Ecology the T-112 work plan	In legal review. (01/18/2018)	Dusty Stewart	On Hold
2	TF-16-11-05	11-17-16	ORP to provide Ecology results of the four tanks that were visually inspected at ETF	In clearance process This has been elevated to the Engineering Manager. Will be available at the end of January 2018 (01/18/2018)	Richard Valle	Open
3	TF-17-04-01	4-20-17	ORP to provide Ecology with schedule updates on the removal of the 242-A Evaporator diesel generator.	Provide layout of phased plan to include short and long term activities.(01/18/2018)	Paul Hernandez	Open
4	TF-17-08-04	8-17-17	Schedule a meeting to discuss AY102 future actions (repair vs close) after the second HD video report is complete -	Final report is issued, 17-TF-0119. Meeting to discuss will be in mid-January 2018 (12/20/17) No repair. Closure is path forward (01/18/2018)	Dusty Stewart	Closed 01/18/18
5	TF-17-09-01	9-20-17	ORP and Ecology will meet to discuss appropriate venue for requests related to DSTs	TBD either the TPA or the permitting meeting.	Bryan Trimberger	Open
6	TF-18-11-1	11-16-17	ORP to brief Ecology on the LAWPS technical scope changes	TSCR briefing in February 2018 on LAWPS and AP Farm upgrades. Include Dan McDonald, Jeff Lyon, Jay Decker, Cheryl Whalen and Steve Lowe (01/18/18)	Steve Pfaff/ Janet Diediker	Open
7	TF-18-11-2	12-1-17	ECY requests ORP to meet on SST RPPP-9937 LDMM		Jeremy Johnson	Open
8	TF-18-11-3	12-1-17	ECY requests ORP to meet on HNF-3484 Double Shell Tank Pumping Guide		Jeremy Johnson	Open

February 15, 2018  
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Abdul, Wahed	Did not attend	ORP
Alzheimer, Jim		ECY
Barnes, Mike		ECY
Beehler, Steve	Did not attend	ORP
Bovier, Jan	Jan B Bover	ORP
Brasher, Stephanie	Stephanie Brasher	MSA
Brown, Dennis	Did not attend	ORP
Burnett, Kaylin		ORP
Cameron, Craig		EPA
Cimon, Shelley	Shelley Cimon	OR State
Curn, Barry		BNI
Decker, Jay	Jay Decker	ECY
Diediker, Janet	Janet Diediker	ORP
Doughty, John	John Doughty	WRPS
<del>Eakins, Reggie Jr</del>		<del>ORP</del>
Einan, Dave	Dave Einan	EPA
Evans, Rana		ORP
Gao, Tracy		ECY
Grindstaff, Joni	Did not attend	ORP
Hall, Katie	Katie Hall	ECY
Hernandez, Paul	Paul Hernandez	ORP
Jeremy, Johnson	Jeremy Johnson	ORP
Jones, Mandy		ECY

February 15, 2018  
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Joyner, Jessica		WRPS
Keith, Colleen		ORP
Kemp, Christopher		ORP
Knight, Dan		ORP
Knox, Kathy	<i>Kathy Knof</i>	Court Reporter
Kriskovich, Ellen		ORP
Lobos, Rod		EPA
Lowe, Steven	<i>Steve Lowe</i>	ECY
Lyon, Jeffery		ECY
Martell, John		DOH
Mathey, Jared		ECY
Mattlin, Ellen		ORP
McDonald, Dan	<i>Dan McDonald</i>	ECY
Menard, Nina		ECY
Parker, Dan	<i>Dan Parker</i>	WRPS
Pfaff, Stephen H	<i>Stephen H. Pfaff</i>	ORP
Pomiak, Andrew		ECY
Price, John	<i>John Price</i>	ECY
Rambo, Jeffrey	<i>Jeffrey Rambo</i>	ORP
Richardson, John		ECY
Rochette, Beth		ECY
Schleif, Stephanie		ECY
Schmidt, John		DOH

February 15, 2018  
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Serafin, Shane	Did not attend	ORP
Skorska, Maria		ECY
Smith, Alex	Alex Smith	ECY
Stewart, Dustin	<del>Dustin Stewart</del>	ORP
Trenchard, Glyn	Glyn Trenchard	ORP
Trimberger, Bryan	Bryan	ORP
Turner, Michael	M. J. Turner	MSA
Turner, Vanessa	Vanessa	ORP
Utley, Randell		DOH
Valle, Richard	R. Valle	ORP
Van Mason, Eric	Eric Van Mason	WRPS
Walmsley, Mign		ECY
Wang, Oliver S		ECY
Whalen, Cheryl	Cheryl Whalen	ECY
Whitelely, Craig	Did not attend	ORP
Wold, Kristi		ECY
Young, Jason	Did not attend	ORP
Smith, Sahid	Sahid	ORP
Skinnarland, Ron	Ron Skinnarland	ECY